

BACHELOR OF INFORMATICS (BIP) PROGRAM DEPARTMENT OF INFORMATICS

FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY INSTITUT TEKNOLOGI SEPULUH NOPEMBER

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Area of Expertise: Applied Modeling and Computing

Name	Prof. Dr. Ir. Joko Lianto Buliali, M.Sc.
Position	Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1991. Master's degree (Computer Science), UMIST and the Victoria University of Manchester, Indonesia, 1995. Doctor's degree (Computer Science), UMIST and the Victoria University of Manchester, 1998.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
r	Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and	1. Prediction of Biochemical Oxygen Demand using Radial Basis
development projects	Function Network, 2020
over the last 5 years	2. Determining the Number of Optimum Clusters in Flight Route Segments using Automatic Dependent Surveillance-Broadcast Data, 2020
	3. Analysis of Relationship Characteristics of Late Payments Based on Billing Payments in 2019
	4. Anomaly Detection on Flight Routes using a Similarity and Clustering Approach based on Automatic Dependent Surveillance Broadcasts, 2019
	5. Weighting of Friend Relationships for Predicting Academic Achievement of University Delegates in the Following Competition, 2019
	 6. Optimal Partitioning in Flight Route Anomaly Detection, 2019 7. Cluster Phenomenon to Determine Flight Route Anomaly Detection, 2019
	8. System Dynamics Testing Methods: Reliability Model, Average Reliability, and Service Demand, 2019
	9. Real-time Detection of Data Completeness Levels for Traffic Simulation using Text Similarity and Time Relevance of Data from Social Media, 2018
	10. Particle Swarm Optimization Implementation on K-Means for Automatic Dependent Surveillance-Broadcast Data Clustering, 2018
	11. Model of Reliability, Average Reliability, Availability, Maintainability and Carrying Capacity for Services with a System Dynamics Approach, 2018
	12. Flight Route Anomaly Detection via Optimal Waypoints, 2017
	13. Feasibility Study of Sales Force Automation Application at PT. Semesta Nustra Distrindo, 2017
	14. Predictive Modeling of First Year Evaluation Based on Demographic Data: Case Study of Telkom University Students, Indonesia, 2016
	15. General Regression Neural Network for Predicting Traffic Flow, 2016
	16. Intelligent Computing Algorithm for Predicting the Number of Vehicle
	Users as an Indicator of Traffic Congestion, 2016
	17. FCM and PSO-SVR Hybrid Method for Traffic Flow Data Prediction, 2015
	18. Identification of Gaussian Mixture Model Optimal Parameters for Speaker Identification in Noise Environments using Endpoint Detection Residues, 2015
	19. Strategic Planning of Information Systems/Information Technology at Nusa Cendana University, 2015

	20. Service Desk evaluation using Six Sigma and ITIL V3 approaches at
Tu disature a allah a nati ana	PT XYZ, 2015
Industry collaborations over the last 5 years	None
Patents and proprietary	None
rights	
Important publications over the last 5 years	 Ina-BWR: Indonesian bigram word rule for multi-label student complaints, 2019 Enhancing the Performance of Smote Algorithm by Using Attribute Weighting Scheme and New Selective Sampling Method for Imbalanced Data Set, 2019 Text Based Approach for Similar Traffic Incident Detection from Twitter, 2018 Vehicle Detection on Images from Satellite using Oriented Fast and
	Rotated Brief, 2017
	 5. A Hybrid Fuzzy Morphology and Connected Components Labeling Methods for Vehicle Detection and Counting System., 2016 6. RANDSHUFF: An Algorithm to Handle Imbalance Class for Qualitative Data, 2016
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Information Systems and Technology, Topics in Optimization Engineering, Seminar 1, Dissertation - Research 2, Dissertation - Research 1, Modeling and Simulation, Probability and Statistics
	 Odd Semester: Information Systems and Technology, Modeling and Simulation, Probability and Statistics, Topics in Data Mining Even Semester: Information Systems and Technology, Topics in Modeling and Simulation, Research Methodology, Mathematics Informatics, Multivariate Data Analysis
	 Odd Semester: Probability and Statistics, Modeling and Simulation, Seminar 1, Information Systems and Technology, Thesis Even Semester: Information Systems and Technology, Seminar 2, Research Methodology, Topics in Modeling and Simulation, Mathematics Informatics, E-Business
	 Odd Semester: Numerical Computing, Topics in Modeling and Simulation, Information Systems and Technology, Thesis – Methodology Even Semester: Information Systems and Technology, Topics in Time Series Data Analysis, Research Methodology, Probability and Statistics
	 Odd Semester: E-Business, Information Systems and Technology, Numerical Computing, Research Methodology and Philosophy of Science, Topics in Modeling and Simulation Even Semester: Research Methodology, Topics in Time Series Data Analysis, Information Systems and Technology, Simulation Modeling, Probability and Statistics, Multivariate Data Analysis

ſ	2020	0
	-	Odd Semester: Linear Algebra, Numerical Computing, Information
		Systems and Technology, Probability and Statistics, Research
		Methodology and Philosophy of Science

Name	Dr. Ahmad Saikhu, S,Si., M.T.
Position	Associate Professor
Academic career	 Bachelor's degree (Statistics), Institut Teknologi Sepuluh Nopember, Indonesia, 1994. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2000. Doctor's degree (Computer Science), Institut Teknologi Sepuluh
	Nopember, Indonesia, 2019.
Employment Research and	Lecturer, Department of Informatics, Faculty of Intelligent Electrical an Informatics Technology 1. Correlation and Symmetrical Uncertainty-Based Feature Selection for
development projects over the last 5 years	 Multivariate Time Series Classification, 2019 Spatio-Temporal Recurrent Neural Networks Modeling for Number of Users Prediction on Wireless Traffic Networks, 2020 Non-Linear Spatio-Temporal Input Selection for Rainfall Forecasting Using Recurrent Neural Networks, 2018 Rainfall Forecasting by using Autoregressive Integrated Moving Average, Single Input and Multi Input Transfer Function, 2017 Mobile Application for Scheduling of Medical Staff in Emergency Condition using Integer Programming, 2015 Improving ARIMA Forecasting Accuracy using Decomposed Signal on PH and Turbidity at SCADA Based Water Treatment, 2020 Generalized Regression Neural Network for Predicting Traffic Flow, 2016 Intelligent Method for Dipstick Urinalysis using Smartphone Camera, 2015 Effectiveness Analysis of Service System Based on Visit Patterns to Improve the Efficiency of Customer Service Queuing System, 2021 Predicting COVID-19 Confirmed Case in Surabaya using Autoregressive Integrated Moving Average, Bivariate and Multivariate Transfer Function, 2020 Prediction of Multivariate Time Series Data Using Echo State Network and Harmony Search, 2019
	12. A Fast Dynamic Assignment Algorithm for Solving Resource Allocation Problems, 2021
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 Correlation and Symmetrical Uncertainty-Based Feature Selection for Multivariate Time Series Classification, 2019 Spatio-temporal Recurrent Neural Networks Modeling for Number of Users Prediction on Wireless Traffic Networks, 2020
Activities in specialist bodies over the last 5 years	 Odd Semester: Probability and Statistics, Time Series Data Analysis Even Semester: Multivariate Data Analysis, Predictive Analytics and Machine Learning, Simulation

2020
- Odd Semester: Numerical Computation, Discrete Mathematics

Name	Dr. Bilqis Amaliah, S.Kom., M.Kom.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1999. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2007.
	- Doctoral degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2020.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Early Warning System Anomaly Ph Sensor Readings and Turbidity in Water Treatment Plants, 2020. Development of Initial Basic Feasible Solution Method using Heuristic Approach to Achieve Optimal Solution of Transportation Problem, 2020 Halal Food Product Study: Halal Assurance Assessment Model, Traceability, and Logistics, 2018 Development of Neural Networks Method in Multivariate Time Series Data Classification, 2018 Preparation of Operational Control Planning Application for PDAM Surya Sembada Surabaya City, 2017
Industry collaborations over the last 5 years	None
Patents and proprietary rights Important publications over	 BCE Application for Finding Initial Basic Feasible Solution in Transportation Problem, EC00202056261, 4 December 2020 1. A New Heuristic Method of Finding the Initial Basic Feasible Solution to Solve the Transportation Problem, 2020
the last 5 years	2. Total Opportunity Cost Matrix–Minimal Total: A New Approach to Determine Initial Basic Feasible Solution of a Transportation Problem, 2019
	 Finding the Shortest Paths among Cities in Java Island using Node Combination based on Dijkstra Algorithm, 2016 Blood Traceability System for Indonesian Blood Supply Chain, 2015
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Numerical Computing, Computational Intelligence, Topics in Optimization Engineering, Discrete mathematics
	 2016 Odd Semester: Numerical Computing, Probability and Statistics, Computational Intelligence Even Semester: Linear Algebra, Artificial intelligence
	2017 - Odd Semester: Discrete mathematics, Numerical Computing
	2020 - Odd Semester: Linear Algebra, Operations Research

Victor Hariadi, S.Si., M.Kom.
Assistant Professor
 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1993. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1993.
Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
 Early Warning System of Ph Sensor Reading and Turbidity Anomalies in Water Treatment Installation, 2020 Modification of Minimum Cost Method for Searching for Initial Basic Feasible Solution on Transportation Problems, 2019 Synthetic Data Generation for Academic Failed Students with Oversampling and Undersampling Hybrids, 2019 Traffic Event Search from Twitter based on Textual Reliability and Time Relevance, 2018
None
None
 Development of Hybrid Recurrent Neural Networks Model for Multivariate Time Series Data Prediction, 2019 Development of Neural Networks Methods in Multivariate Time Series Data Classification, 2018 Development Of Optimization Models for Doctor Scheduling in Emergency based on Mobile Applications, 2015
 2015 - Odd Semester: Numerical Computing, Graph Theory 2016 - Odd Semester: Mathematics Informatics, Graph Theory, Numerical Computing Even Semester: Automata, Mathematics Informatics 2017 - Odd Semester: Numerical Computing, Graph Theory Even Semester: Automata, Mathematics Informatics 2018 - Odd Semester: Numerical Computing, Graph Theory and Automata Even Semester: Numerical Computing Odd Semester: Numerical Computing 2019 - Odd Semester: Discrete Mathematics, Numerical Computing Even Semester: Graph Theory and Automata 2020

Name	Arya Yudhi Wijaya, S.Kom., M.Kom.
Position	Assistant Professor

Academic career	- Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2008.
	- Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2010.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and	Reliability In Ensemble Learning and Learning from Crowds, 2019
development	2. Spatio-Temporal Recurrent Neural Networks Modeling for Number of
projects over the	Users Prediction on Wireless Traffic Networks, 2020
last 5 years	3. Pemilihan Korpus Statis Bersesuaian dengan Cosine Similarity dan
- Julius - Julius	Penggunaan IDF Global Pada Penambahan Dokumen Baru, 2020
	4. Multivariate Time Series Forecasting Using Recurrent Neural Networks
	for Meteorological Data, 2019
	5. Sensor Energy Preservation for Leak Quantification using Distance-
	Based Feature Selection Method, 2019
	6. Trabecular Bone Segmentation based on Segment Profile
	Characteristics using Extreme Learning Machine on Dental Panoramic
	Radiographs, 2017
	7. Feature Extraction using Gray-Level Co-occurrence Matrix of Wavelet
	Coefficients and Texture Matching for Batik Motif Recognition, 2017
Industry collaborations	None
over the last 5 years	Tions
Patents and	None
proprietary rights	
Important	1. Converting Image into Bas Reliefs using Image Processing Techniques,
publications over	2019
the last 5 years	2. Extracted Pixels Similarity Features (EPSF) using Interactive Image Segmentation Techniques, 2016
	3. A Novel Strategy of Differential Evolution Algorithm's Crossover
	Operator Based on Graylevel Clusters Similarity for Automatic
	Multilevel Image Thresholding, 2015
	4. Fractal-based Texture and HSV Color Features for Fabric Image
	Retrieval, 2015
	5. Image Thresholding based on Index of Fuzziness and Fuzzy Similarity Measure, 2015
	6. Tuna Fish Classification using Decision Tree Algorithm and Image
	Processing Method, 2015
Activities in	2015
specialist bodies	- Odd Semester: Probability and Statistics, Discrete Mathematics
over the last 5	
years	2016
	- Odd Semester: Probability and Statistics, Discrete Mathematics,
	Linear Algebra Francisco Mathematica Information County Theorem and
	- Even semester: Mathematics Informatics, Graph Theory and Automata
	2017
	2017 - Odd Semester: Discrete Mathematics, Linear Algebra
	- Odd Semester: Discrete Mathematics, Linear Algebra - Even Semester: Mathematics Informatic, Linear Algebra
	2018
	- Odd Semester: Numerical Computing, Graph Theory and Automata
	- Even Semester: Probability and Statistics
	1

 2019 Odd Semester: Discrete Mathematics, Linear Algebra Even Semester: Mathematics Informatics, Graph Theory and Automata
2020 - Odd Semester: Discrete Mathematics

Area of Expertise: Architecture and Computer Networking

Name	Prof. Ir. Supeno Djanali, M.Sc., Ph.D.				
Position	Professor				
Academic career	- Bachelor's degree (Computer Engineering), Institut Teknologi Sepuluh Nopember, Indonesia, 1974.				
	- Master's degree (Computer Science), University of Wisconsin - Madison, United States, 1978.				
	- Doctoral degree (Computer Science), University of Wisconsin - Madison, United States, 1984.				
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and				
Research and	Informatics Technology, Institut Teknologi Sepuluh Nopember				
development	 Real Time Train Monitoring using Google Maps, 2015 Adaptive Gateway Discovery Hybrid on AODV Internet Network 				
projects over the	Using Fuzzy Algorithm, 2015				
last 5 years	3. Route Efficiency in Dynamic Source Routing Protocols Using Path Aware-Short, 2015				
	4. Increasing the capacity of the secret data using DEpixels blocks and				
	adjusted RDE-based on grayscale images, 2015				
	5. A conceptual information of technology framework to support rice				
	farming in Timor Leste, 2015 6. Development of Human Mental State Recognition System Software				
	Based on EEG Brain Activity Waves, 2016				
	7. Smart System for Emergency Vehicle Using Android, 2016				
	8. Electronic Voting: Means for Security and Validity of General Elections				
	in Indonesia, 2016 O. Classification of FEC Signals Using Single Channel Indonesiant				
	9. Classification of EEG Signals Using Single Channel Independent Component Analysis, Power Spectrum, and Linear Discriminant Analysis, 2016				
	10. Design and development of voting data security for electronic voting (E-Voting), 2016				
	11. Feature extraction using combination of intrinsic mode functions and power spectrum for EEG signal classification, 2016				
	12. Improved Information Retrieval Performance in SQL Databases Using Data Adapters with Bigdata Case Study, 2017				
	13. Performance Analysis and Study of Encryption Methods on Web-Based Electronic Mail Applications, 2017				
	14. Blackhole Attack Detection Analysis on Mobile Ad-Hoc Network				
	Using Genetic Algorithm Methods, 2017 15. Classification of P300 in EEG Signals for Disabled Subjects using				
	Singular Spectrum Analysis, 2017				
	16. AODV-PNT Performance Study with Added Factor Number of Neighbor Nodes on VANET, 2018				
	17. Improved Information Retrieval Performance on SQL Database using				
	Data Adapter, 2018				
	18. Audio Data Hiding using Octal Modulus Function Based Unsigned				
	Integer Sample Values, 2018 19. An Improved Secret Message Capacity Using Modulus Function Based				
	Color Image Data Hiding, 2018				
	20. Design and Build a Sharia Crowdfunding System to Minimize Riba, 2019				
	21. Increasing accuracy and completeness of intrusion detection model				

	using fusion of normalization, feature selection method and support vector machine, 2019
	22. Developing audio data hiding scheme using random sample bits with logical operators, 2019
	23. Assessing Centroid-Based Classification Models for Intrusion
	Detection System Using Composite Indicators, 2019
	24. An Optimum Clustered Grid-Based Particle Swarm Optimization to Enhance Efficiency Energy in Wireless Sensor Networks, 2019
	25. Improving the Capability of Reduced Difference Expansion based Digital Image Data Hiding., 2019
	26. Using Internet of Things Technology to Help the Learning Process in Schools, 2019
	27. Design and Build a Secure Virtual Class System to Support Online
	Learning, 2020
	28. Design and Build a Virtual Class System to Support the Online Learning Process, 2020
	29. Analyzing the performance of intrusion detection model using weighted
	one-against-one support vector machine and feature selection for imbalanced classes, 2020
	30. Development of Greedy Perimeter Stateless Routing (GPSR) with Overlay Network Concept on VANETs, 2020
	31. GCRFP-PAGE Replacement for Solid State Drive using Ghost-Cache,
	2020
Industry collaborations	
over the last 5 years	N.
Patents and	None.
proprietary rights Important	Routing Optimization on Aodv_Ext Protocol using Link Expiration
publications over	Time (LET), 2015
the last 5 years	Routing Protocol Performance in Wireless Mesh Network Environment with Combined Scalable Video Coding, 2015
	3. CORO: Graph-Based Automatic Intrusion Detection System Signature
	Generator for E-Voting Protection, 2015
	4. Graph-based forensic analysis of web honeypot, 2016
	5. Reliable Fault-Tolerant on Clustering-Based Wireless Sensor Network, 2016
	6. Server Workload Model Identification: Monitoring and Control Tools for Linux, 2016
	7. Audio Data Hiding Based on Sample Value Modification using
	Modulus Function, 2016
	8. Implementation of NFC Technology on Smartphones as Authentication Agents in the E-Vote System, 2017
	9. Implementation of the Overlay Network Concept on Greedy Perimeter Stateless Routing (GPSR) at VANETs, 2017
	10. Modification Of the Aody-Br Protocol using Link Expiration Time
	(Let) To Improve Link Stability in The Mobile Ad-Hoc Network (Manet) Environment, 2017
	11. Study of Greedy Perimeter Stateless Routing Performance Based on Overlay Network on VANET, 2018
	12. Vote Identification and Integrity of Ballot in Paper-Based E-Voting System, 2018
	13. Modify Route Discovery on Ad-hoc on-Demand Distance Vector (AODV) Based on One-Hop Node Connectivity Level in VANETs,
	2018

14. Classification of P300 Event-related Potentials using Wavelet

	Transform, MLP, and Soft Margin SVM, 2018 15. Text Mining for Pest and Disease Identification on Rice Farming with Interactive Text Messaging, 2018
Activities in specialist bodies over the last 5 years	2015 - Odd Semester: Digital Systems, Seminar 1, Research Methodology and Philosophy of Science, Dissertation - Research 2, Network-Based Computing.
	 2016 Odd Semester: Network-Based Computing, Seminar 2, Research Methodology and Philosophy of Science, Digital Systems. Even Semester: Computer Organization, Topics in Wireless Networks, Research Methodology.
	 2017 Odd Semester: Digital Systems, Network-Based Computing, Research Methodology and Philosophy of Science. Even Semester: Topics in Wireless Networks, Research Methodology.
	 2018 Odd Semester: Research Methodology and Philosophy of Science, Network-Based Computing, Digital Systems, Computer Networks. Even Semester: Digital Systems, Research Methodology, Topics in Wireless Networks.
	 2019 Odd Semester: Network-Based Computing, Research Methodology and Philosophy of Science, Computer Organization. Even Semester: Digital Systems, Research Methodology, Topics in Wireless Networks.
	 2020 Odd Semester: Network-Based Computing, Research Methodology and Philosophy of Science, Computer Organization.

Name	Royyana Muslim I, S.Kom, M.Kom, Ph.D.				
Position	Assistant Professor				
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2000. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2005. Doctoral degree (Engineering), Kumamoto University, 2013. 				
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember				
Research and development projects over the last 5 years	 Indoor Position Detection Using Arduino Microcontroller and Multi Sensor, 2015 Portable Vehicle Exhaust Test Equipment with Arduino and Smoke Sensor, 2015 Interactive Whiteboard and Instant Quiz for Multimedia Classroom Activity, 2015 Survey on Handling Broadcast Storm Problems on AODV Routing Protocol at MANET, 2015 Countermeasures against Attack Avoidance Techniques on Intrusion Prevention Systems, 2015 				

- 6. Intrusion Detection System using N-Gram and Cosine Similarity, 2016
- 7. Survey of Clustering Routing Techniques Based on Mobility on Wireless Ad-hoc Networks, 2016
- 8. Rsync and Rdiff implementation on Moodle's backup and restore feature for course synchronization over the network, 2016
- 9. Optimization of Replacement Strategy for Progressive Cache Method in Content Centric Networking (CCN), 2016
- Development of Authentication and Authorization Mechanisms for Config Management in the Case of Linux Container Based Shared Web Hosting, 2016
- 11. Hiding Secret Data by using Modulo Function in Quad Difference Expansion, 2016
- 12. Design a Transformation Mechanism for Data Security, 2016
- 13. Utilization of Four-Wheel Vehicle Traffic Density to Support Communication Reliability on In-City Ad-Hoc Networks, 2016
- 14. Proposed Information Technology Policy as an Umbrella to Realize ITS in one-hand in a Smart Campus Environment, 2016
- 15. Data Center Cloud Computing Power Optimization on High Performance Computing (HPC) Workloads with Realtime Predictive Scheduling, 2017
- 16. Edit Distance Weighting Modification using Phonetic and Typographic Letter Grouping over Homomorphic Encrypted Data, 2017
- 17. Multi Criteria Decision System for Distribution Provisioning and Resource Optimization using Analytical Hierarchy Process, 2017
- 18. A Mobile Crowdsensing Framework for Integrating Smartphone and Iot Devices to Cloud Computing Services, 2017
- 19. Implementation of Work Instruction as a Solution for Handling Critical IT Incidents in Units at ITS, 2017
- 20. Performance Study of Wireless Access in Vehicle Environment 802.11 p in Ad-Hoc on-Demand Distance Vector Routing (AODV) with Nakagami Propagation Model and Two Ray Ground, 2018
- 21. Oversight of Congestion Control Mechanisms on Transmission Control Protocols in Software Defined Networks, 2018
- 22. Data Replication using the Detection Controller Module to Prevent Bottlenecks in The Data Center, 2018
- 23. Development of Uploading Media Components to Support E-Learning in Dynamic Network Conditions, 2018
- Query Dominates Continuous Top-k of Incomplete Data over Data Streams, 2018
- 25. Docker-Based Network Function Virtualization as a Learning Tool in Computer Networking Course, 2019
- 26. Analyzing the Effect of Block Size on Stego Audio Quality, 2019
- 27. Energy Aware Computing Offloading Framework for Mobile Crowdsensing Clusters Using the DMIPS Approach, 2019
- 28. Using Internet of Things Technology to Help the Learning Process in Schools, 2019
- 29. Data Security Method Development, 2019
- 30. Protection Methods to Improve Data Security on Computer Networks, 2019
- 31. Development of Adaptive Routing Mechanisms and Routing Hole Handling for Congestion Reduction and Improvement of Wireless Sensor Network Performance, 2019
- 32. Node Density-Based Approach to Energy Efficient Data Collection

	Protocol in Wireless Sensor Network Environment, 2020 33. Hiding Data in Audio Files: An Alignment-based Approach to Improving Audio Quality Stego, 2020 34. Security audit on cloud-based servers using AES-256 and SHA-256, 2020 encrypted data 35. Development of the Load Balance Mechanism at SDN Data Plane Fat Tree using Modified Dijkstra Algorithm, 2020 36. Development of Blackhole Attacks on AODV Routing Protocol, 2020 37. Internet of Things User Oriented Wi-Fi Quality Analyzer, 2020 38. Evaluating the Performance of Fibbing Architectures in Hybrid Software Defined Networks, 2020 39. Preparation of Activity Recommendations for Improving Information Security for Ten November Institute of Technology Students Based on NIST SP 800-50, 2020
	40. Development of Data Hiding Methods and Optimization of Intrusion
Industry collaborations	Detection Systems on Computer Networks for Data Protection, 2020
Industry collaborations over the last 5 years	
Patents and	None
proprietary rights	
Important	1. Developing Electronic Mango Traceability in Indonesia, 2016
publications over the last 5 years	2. Detecting Malicious Activities in a Computer Cluster for Developing Dynamic Honeypot, 2018
Just by Julis	3. Design Virtual Machine Allocation Management in a Heterogeneous
	Hypervisor Environment, 2019
Activities in specialist bodies over the last 5 years	Odd Semester: Operating Systems, Computer Organization, Network Programming, Topics in Cloud Computing.
	 2016 Odd Semester: Operating Systems, Cloud Computing, Topics in Cloud Computing, Network Programming. Even Semester: Distributed Systems, Information and Network Security, Cloud Computing.
	 2017 Odd Semester: Operating Systems, Network Programming, Topics in Cloud Computing. Even Semester: Topics in Network Design and Auditing, Cloud Computing, Distributed Systems, Information Security and Networks.
	 Odd Semester: Cloud Computing, Distributed Systems, Topics in Network Design and Auditing, Topics in Distributed Systems. Even Semester: Topics in Cloud Computing, Network Programming.
	 Odd Semester: Seminar 1, Cloud Computing, Distributed Systems, Topics in Distributed Systems. Even Semester: Topics in Cloud Computing, Seminar 2, Network Programming.
	2020 - Odd Semester: Technology between Networks, Distributed

Systems, Cloud Computing, Topics in Distributed Systems.
Systems, Cloud Companies, Topics in Bistile accursticities.

Name	Dr. Eng. Radityo Anggoro, S.Kom., M.Eng.Sc.			
Position	Assistant Professor & Secretary of Financial Affairs			
Academic career	- Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2006.			
	- Master's degree (Engineering Science), National Taiwan University of Science and Technology, Taiwan, 2008.			
	- Doctorate's degree (Engineering), Kumamoto University, Japan, 2014.			
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember			
Research and	1. 2021, as a member of research group, Development of Systems and			
development projects	Architectures Supporting Online Learning Technology			
over the last 5 years	2. 2021, as a leader of research group, Development of a Reactive Routing			
	Protocol with Energy Efficiency in Mind 3. 2021, as a leader of research group, Implementing the Reverse-AODV Protocol by Considering the Energy Consumption Factor at the Routing			
	Stage at VANET 4. 2021, as a member of research group, Development of Application of Physical Vulnerability Map of Building in Surabaya Due to Potential Recent Earthquake: A Multi-Scale Study			
	 5. 2021, as a member of research group, Antenna Configuration System Development to Increase AIS Receiver Range 			
	6. 2020, as a member of research group, Design and Build Miniature Intelligent Autonomous Vehicles			
	7. 2020, as a member of research group, Development of Data Hiding Methods and Optimization of Intrusion Detection Systems on Computer Networks for Data Protection			
	8. 2020, as a leader of research group, Development of On Demand Vector Ad-hoc Routing Protocol with Clustering and Ant Colony Methods on Vehicular Ad-hoc Networks			
	9. 2020, as a member of research group, Design a Secure Virtual Class System to Support Online Learning			
	10. 2020, as a member of research group, Optimization of Current Sensor Placement for Corrosion Detection in Water Pipelines			
	11. 2019, as a member of research group, Informatic Open Library Systems: Design and Build Integrated Library Information Systems at the Informatics Department Library			
	12. 2019, as a member of research group, Design and Build Cloud Computing Security Audit Software with Encrypted Data			
	13. 2019, as a member of research group, Development of Online Attendance System with Face Matching and Digital Signature			
	14. 2018, as a member of research group, Development of Data Aggregation and Delivery Protocols to Save Energy and Guarantee the Reliability of Data Delivery in Wireless Sensor Network Environments			
	15. 2018, as a member of research group, Securing Messages on Sundanese Language Documents Using Steganography Format Based Method			
	16. 2018, as a member of research group, Development of Online Attendance System with Face-Matching Fingerprint Substitute			
Industry collaborations over the last 5 years				
Patents and proprietary rights	None			

Important publications over the last 5 years	 The development of a routing protocol based on Reverse-AODV by considering an energy threshold in VANET, NG Razafindrobelina, R Anggoro, AM Shiddiqi, 2021 IEEE International IOT, Electronics and Mechatronics Conference Security audit in cloud-based server by using encrypted data AES-256 and SHA-256, M Husni, HT Ciptaningtyas, W Suadi, RM Ijtihadie, R Anggoro, MF Salam, IOP Conference Series: Materials Science and Engineering 830 (3), 032015 A grid-based clustering with dynamic forwarding path for energy-efficient data gathering in wireless sensor network environments, W Wibisono, T Ahmad, R Anggoro, ICIC express letters. Part B, Applications An android based course attendance system using face recognition, D Sunaryono, J Siswantoro, R Anggoro, Journal of King Saud University-
	Computer and Information Sciences 5. Improvement Performance of Clustered Shortest Geopath Routing Protocol Using Data Aggregation in Wireless Sensor Network Environments, W Wibisono, R Anggoro, Journal of Physics: Conference Series 1108 (1), 012121
	6. Text Steganography on Sundanese Script using Improved Line Shift Coding, HT Ciptaningtyas, R Anggoro, MBA Fadhillah, 2018 International Electronics Symposium on Knowledge Creation 7. Position-based scheme for multi-hop routing protocol in cluster-based
	wireless sensor networks, W Wibisono, T Ahmad, R Anggoro, 2018 4th International Conference on Wireless and Telematics (ICWT), 1-6 8. Improvement Performance of Clustered Shortest Geopath Routing Protocol Using Adaptive Path and Data Aggregation in Wireless Sensor Network Environments, R Rozita, W Wibisono, R Anggoro, MISEIC 2018
Activities in specialist	TAUGHT COURSES:
bodies over the last 5 years	2015 - Odd Semester: Net Centric Computing, Operating Systems
	 2016 Odd Semester: Operating Systems. Even Semester: Design and Audit Network, Computer Networks
	 2017 Odd Semester: Operating Systems, Wireless Networks Even Semester: Design and Audit Network, Computer Networks
	 2018 Odd Semester: Operating Systems, Mobile Computing Even Semester: Design and Audit Network, Computer Networks 2019 Odd Semester: Operating Systems, Mobile Computing Even Semester: Design and Audit Network, Computer Networks
	2020 - Odd Semester: Computer Networks

Name	Wahyu Suadi, S.Kom., M.Kom.
Position	Assistant Professor
Academic career	- Bachelor's degree (Computer Science), University of Indonesia, Indonesia, 1995.

	- Master's degree (Computer Science), University of Indonesia, Indonesia, 1998.					
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember					
Research and development projects over the last 5 years	 Clustering of Research Topics Based on Unsupervised Learning for Recommendations for Library Collections in Its Library, 2019 Cloud Computing Security Audit Software Design with Encrypted Data, 2019 Security Audit in Cloud-Based Server by using Encrypted Data AES-256 and SHA-256, 2020 Performance Comparison Analysis of Enhanced Ant AODV and Enhanced Ant DSR Based on Quality-of-Service Parameters, 2020 GCRFP-PAGE Replacement for Solid State Drive Using GHOST-CACHE, 2020 Information System for Admission of New Students for East Java Province Office section (back end), 2020 The Development of Blackhole Attack in AODV Routing Protocol, 2020 					
Industry collaborations over the last 5 years						
Patents and proprietary rights	None.					
Important publications over the last 5 years	None.					
Activities in specialist bodies over the last 5 years	2018 - Even Semester: Operating System, Network Programming. 2019					
	 Odd Semester: Computer Organization, Information Security and Networks. Even Semester: Network Programming, Operating System. 					
	2020 - Odd Semester: Information and Network Security, Computer Organization.					

Area of Expertise: Intelligent Information Management

Name	Prof.	Prof. Drs.Ec.Ir. Riyanarto Sarno,M.Sc,Ph.D.				
Position	Profe	Professor				
Academic career	- Ba	chelor's degree (Electrical Engineering),	Institut Tekn	ologi Bandung,		
		Indonesia, 1983.				
	- Ma	aster's degree (Science), The University	of New Brun	swick, Canada,		
		88.		, ,		
		octor's degree (Computer Science), Un	iversity of N	ew Brunswick.		
		nada, 1892.	<i>y</i>			
Employment		urer, Department of Informatics, Faculty	of Intelligent	Electrical and		
Zimprojiment		matics Technology	or interngent	Dicouriour una		
Research and	No	Title of Research Projects	Years	Position		
development		3				
	1	Operasional Pengambilan Data	2021	Principal		
projects over the		Skrining Covid-19 menggunakan		Investigator		
last 5 years		INOSEC19				
		(Operational Data Collection for				
		Covid-19 Screening using INOSEC19)				
	2	Adopsi Prototipe Electronic Nose	2021	Principal		
		INOSEC19 untuk uji skrining COVID-		Investigator		
		19 secara terbatas di lingkungan ITS				
		(Adoption of INOSEC19, an Electronic				
		Nose Prototype for a limited COVID-				
		19 screening test in the ITS				
		environment)				
	3	Pengembangan Prototipe Uji Kalibrasi	2021	Principal		
		Electronic Nose INOSEC19 untuk		Investigator		
		Skrining Cepat Covid-19				
		(Development of INOSEC19, an				
		Electronic Nose Prototype of Covid-19				
		Rapid Detection, for Calibration Test)				
	4	Pengembangan Electronic Nose	2021-2023	Principal		
		Berbasis Integrasi IOT Dan Komputasi		Investigator		
		Cloud untuk Deteksi Covid-19				
		Menggunakan Keringat Ketiak Pasien				
		(Development of Artificial Intelligence				
		System for Brain Surgery Planning				
		based on Patient Medical Images)				
	5	Pengembangan Sistem Artificial	2021-2023	Principal		
		Intelligence untuk Perencanaan Bedah		Investigator		
		Otak Berdasarkan Citra Medis Pasien				
		(Development				
		of Artificial Intelligence System for				
		Brain Surgery Planning based on				
		Patient Medical Images)				
	6	Rapid Detection of COVID-19 through	2020-2021	Principal		
		Sweat Analysis by using an Electronic		Investigator		
		Nose		<i>6</i>		
	7	Pengembangan 3 Dimensi Akurat	2019-2022	Principal		
		Berdasarkan Citra Medis Anatomi dan	2017 2022	Investigator		
		Morfologi Otak untuk Perencanaan		III (OSLIGUIO)		
		Bedah Saraf Otak				
		(Developing 3D Brain Anatomical				
		Morphological Accurate Generator				
		morphological Accurate Generator	j	j		

1		(BAMAG) Based on 1	Medical Images		
		for Planning Brain Sur	_		
	8	Pengembangan 3 Din		19-2021	Principal
		Manufaktur Aditif Aku			Investigator
		Citra Medis Untuk Per			8
		Tengkorak Kepala Da			
		Tulang Wajah			
		(Developing Accurate	2 3D Additive		
		Manufacturing Gener			
			for Planning		
		· ·	rgery and		
		Craniofacial Reconstru	0 .		
	9	Pengembangan Wor		20	Principal
	9			20	_
		•	dan Kepala		Investigator
		(Developing Visual			
	10	Brain and Cranio Surg		10.2020	D: : 1
	10	Pengembangan Electro		18-2020	Principal
		Deteksi Kemurnian	Daging Sapi		Investigator
		(Development of Elec	8		
		Detecting Pork Adulter		1.0	
	11		xed Reality 20	19	Principal
			Operasi Otak		Investigator
		1 0	Iixed Reality		
		Simulator for Brain Su	rgery)		
	12			17-2019	Principal
		Bisnis (Business P	Process Aware		Investigator
		Enterprise System)			
Industry collaborations	No	Name of	Hospital / Industry	Position	Year
over the last 5 years	110	Collaboration	Hospital / Industry	Position	1
	1	Research	Dr. Soetomo	Partner	2021
		Collaboration:	Academic General		
		Perbedaan Hasil	Hospital		
		i ciocdaan ilasn	- · · · I		
	17	Analisis Bau Keringat		Partner	2021
	2		Indrapura Hospital	Partner	2021
	2	Analisis Bau Keringat		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non-		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT-		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for		Partner	2021
	2	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non-		Partner	2021
		Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non- Covid-19 Patients)	Indrapura Hospital		
	3	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non- Covid-19 Patients) Research	Indrapura Hospital A. Yani Islamic	Partner Partner	2021
	3	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non- Covid-19 Patients) Research Collaboration:	Indrapura Hospital A. Yani Islamic Hospital	Partner	2021
		Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non- Covid-19 Patients) Research Collaboration: Perbandingan Antara	Indrapura Hospital A. Yani Islamic Hospital Jemursari Islamic		
	3 4	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non- Covid-19 Patients) Research Collaboration: Perbandingan Antara Hasil Skrining Cepat	A. Yani Islamic Hospital Jemursari Islamic Hospital	Partner Partner	2021 2021
	3	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non- Covid-19 Patients) Research Collaboration: Perbandingan Antara Hasil Skrining Cepat Covid-19 Melalui	A. Yani Islamic Hospital Jemursari Islamic Hospital Navy Central	Partner	2021
	3 4	Analisis Bau Keringat Ketiak Menggunakan Alat i-Nose C-19 dan RT-PCR Pasien COVID-19 dan Non- Covid-19 (Differences in the Results of the Analysis of Armpit Odor Sweat Using the i-Nose C-19 and RT- PCR Equipment for COVID-19 and Non- Covid-19 Patients) Research Collaboration: Perbandingan Antara Hasil Skrining Cepat	A. Yani Islamic Hospital Jemursari Islamic Hospital	Partner Partner	2021 2021

		T	I	1
	Electronic Nose			
	dengan Hasil Swab			
	PCR (Comparison			
	between the Results of			
	Covid-19 Rapid			
	-			
	Screening Through			
	Armpit Odor Sweat			
	Using an Electronic			
	Nose with PCR Swab			
	Results)			
6	Research	PT. Dempo	Industry	2021
	Collaboration:	Metalindo	Partner	
	Pengembangan	1/10taililao	1 di tiloi	
	Prototipe Uji			
	Kalibrasi Electronic			
	Nose INOSEC19			
	untuk Skrining Cepat			
	Covid-19			
	(Development of			
	INOSEC19, an			
	Electronic Nose			
	Prototype of Covid-			
	1			
	19 Rapid Detection,			
	for Calibration Test)		_	
7	Research	Dr. Soetomo	Partner	2021
	Collaboration: Rapid	Academic General		
	Detection of Covid-	Hospital		
	19 through Sweat			
	Analysis by using an			
8	Analysis by using an Electronic Nose	Dr. Soetomo	Partner	2019-
8	Analysis by using an Electronic Nose Research	Dr. Soetomo	Partner	2019-
8	Analysis by using an Electronic Nose Research Collaboration:	Academic General	Partner	2019- 2023
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3		Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological	Academic General	Partner	
8	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator	Academic General	Partner Marketing	
	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on	Academic General Hospital PT. Bumandhala		2023
9	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for	Academic General Hospital PT. Bumandhala Caja Indonesia	Marketing Partner	2023 2019- 2023
	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain	Academic General Hospital PT. Bumandhala	Marketing	2019- 2023 2019-
9	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery)	Academic General Hospital PT. Bumandhala Caja Indonesia National Hospital	Marketing Partner Partner	2019- 2023 2019- 2023 2019- 2023
9	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala	Marketing Partner Partner Marketing	2019- 2023 2019- 2023 2019- 2023 2019-
9 10 11	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration:	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia	Marketing Partner Partner Marketing Partner	2019- 2023 2019- 2023 2019- 2023 2019- 2021
9	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration: Pengembangan 3	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia Plastic Surgery	Marketing Partner Partner Marketing	2019- 2023 2019- 2023 2019- 2021 2019-
9 10 11	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration: Pengembangan 3 Dimensi Generator	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia	Marketing Partner Partner Marketing Partner	2019- 2023 2019- 2023 2019- 2023 2019- 2021
9 10 11	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration: Pengembangan 3	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia Plastic Surgery	Marketing Partner Partner Marketing Partner	2019- 2023 2019- 2023 2019- 2021 2019-
9 10 11	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration: Pengembangan 3 Dimensi Generator	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia Plastic Surgery Division Airlangga	Marketing Partner Partner Marketing Partner	2019- 2023 2019- 2023 2019- 2021 2019-
9 10 11	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration: Pengembangan 3 Dimensi Generator Manufaktur Aditif	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia Plastic Surgery Division Airlangga University	Marketing Partner Partner Marketing Partner	2019- 2023 2019- 2023 2019- 2021 2019-
9 10 11	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration: Pengembangan 3 Dimensi Generator Manufaktur Aditif Akurat Berdasarkan Citra Medis Untuk	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia Plastic Surgery Division — Airlangga University Hospital	Marketing Partner Partner Marketing Partner Partner	2019- 2023 2019- 2023 2019- 2021 2019- 2021
9 10 11	Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak (Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery) Research Collaboration: Pengembangan 3 Dimensi Generator Manufaktur Aditif Akurat Berdasarkan Citra Medis Untuk	PT. Bumandhala Caja Indonesia National Hospital CV. Bumandhala Caja Indonesia Plastic Surgery Division Airlangga University	Marketing Partner Partner Marketing Partner	2019- 2023 2019- 2023 2019- 2021 2019-

Detents on 1		Dan Rekonstruksi Tulang Wajah (Developing Accurate 3D Additive Manufacturing Generator based on Medical Images for Planning Cranioplasty Surgery and Craniofacial Reconstruction Surgery)	Determinant	S	V
Patents and proprietary rights	No	Title	Patents and Proprietary Rights	Status	Year
	1	MODUL PEMOTONG 3 DIMENSI MODEL MENGGUNAKAN RAYCASTING	Computer Copyright	Granted	2021
	2	MODUL APLIKASI ELECTRONIC NOSE SIGNAL REPOSITORY UNTUK MENYIMPAN SINYAL BAU KERINGAT KETIAK BERBASIS CLOUD	Computer Copyright	Granted	2021
	3	INOSEC19	Brand	Registered	2021
	4	PENENTUAN POSITIF DAN NEGATIF PENYAKIT COVID-19 PDA PASIEN MENGGUNAKAN SISTEM ELECTRONIC NOSE MELALUI BAU KERINGAT KETIAK	Paten	Registered	2021
	5	SISTEM ELECTRONIC NOSE UNTUK DETEKSI KEMURNIAN DAGING SAPI TERHADAP DAGING BABI	Paten	Registered	2021
	6	ELECTRONIC NOSE UNTUK SKRINING CEPAT PENDERITA (POSITIF) ATAU SEHAT (NEGATIF) DARI PENYAKIT COVID-19 MENGGUNAKAN BAU KERINGAT KETIAK	Paten	Registered	2021
	7	BOX SISTEM ELECTRONIC NOSE	Industrial Design	Registered	2020
	8	VIDEO VISUAL WORKFLOW DALAM BENTUK ANIMASI 3 DIMENSI UNTUK KASUS CRANIOSYNOSTOSIS	Video Copyright	Granted	2020
	9	MODUL VISUAL WORKFLOW BERDASARKAN MODEL PROSES BISNIS UNTUK	Video Copyright	Granted	2020

	TZACITO			
	KASUS CRANIOSYNOSTOSIS			
10	BASIS DATA TEKSTUAL	Database	Granted	2020
	IMAGE DIGITAL IMAGING		Graniea	2020
		Copyright		
	AND COMMUNICATION IN			
	MEDICINE (DICOM) 3			
	DIMENSI OTAK	D . 1		2020
11	BASIS DATA TEKSTUAL	Database	Granted	2020
	IMAGE 2 DIMENSI OTAK	Copyright		
12	MODUL VIRTUAL REALITY	Computer	Granted	2020
	3 DIMENSI UNTUK	Copyright		
	WORKFLOW KASUS			
	CRANIOSYNOSTOSIS			
	MENGGUNAKAN FILE			
	DICOM DARI CT-SCAN			
13	MODUL VIRTUAL REALITY	Computer	Granted	2020
	3 DIMENSI UNTUK	Copyright		
	WORKFLOW KASUS			
	CRANIOPLASTY			
	MENGGUNAKAN FILE			
	DICOM DARI CT-SCAN			
14	MODUL VIRTUAL REALITY	Computer	Granted	2020
	TEKSTUAL IMAGE DIGITAL	Copyright		
	IMAGING AND			
	COMMUNICATION IN			
	MEDICINE (DICOM) 3			
	DIMENSI OTAK			
15	MODUL APLIKASI SIGNAL	Computer	Granted	2020
	REPOSITORY UNTUK	Copyright		
	MENYIMPAN			
	DATA SINYAL YANG			
	DIPROSES DALAM			
	ELECTRONIC NOSE			
16	MODUL APLIKASI	Computer	Granted	2020
	PEMBUATAN OBJEK 3D	Copyright		
	DARI			
	PERSIMPANGAN OBJEK 3D			
	UNTUK PEMODELAN			
	IMPLAN			
17	MODUL APLIKASI	Computer	Granted	2020
	ACCURATE 3D GENERATOR	Copyright		
	UNTUK MENGHASILKAN			
	3D MODEL YANG AKURAT			
	BERDASARKAN DIGITAL			
	IMAGING AND			
	COMMUNICATIONS IN			
	MEDICINE (DICOM)	~	-	2022
18	MODUL APLIKASI	Computer	Granted	2020
	PENGHALUSAN	Copyright		
	PERMUKAAN DARI			
	OBJEK 3D IMPLAN			1
19	MODUL APLIKASI	Computer	Granted	2020
	PEMBENTUKAN MODEL	Copyright		
	IMPLAN			
	MENGGUNAKAN RAY			
	CASTING			

1 20	MODIN ADMINACICIONAL		[C . 1	2020
20	MODUL APLIKASI SIGNAL	Computer	Granted	2020
	REPOSITORY UNTUK	Copyright		
	MENYIMPAN DATA SINYAL			
	YANG DIPROSES DALAM			
	ELECTRONIC NOSE			
21	APLIKASI DICOM 3D	Computer	Granted	2020
	REPOSITORY UNTUK	Copyright		
	MENYIMPAN			
	DIGITALIMAGING AND			
	COMMUNICATION IN			
	MEDICINE (DICOM)			
	DALAMBENTUK 3 DIMENSI			
22	APLIKASI MULTIPLANAR	Computer	Granted	2020
	3D VIEWER UNTUK	Copyright		
	MENAMPILKANSAGITAL,	1, 0		
	KORONAL, DAN AKSIAL			
	SECARA SINKRON			
23	APLIKASI 3D AUTOMATIC	Computer	Granted	2020
	CO-REGISTERATION	Copyright		
	UNTUKMENYATUKAN			
	GAMBAR DARI BERBAGAI			
	MODALITAS			
24	MODUL APLIKASI HEAD	Computer	Granted	2020
	ALIGNMENT	Copyright	Gramea	2020
	BERDASARKANANTERIOR	Copyright		
	COMMISSURE (AC),			
	POSTERIOR COMMISSURE			
	(PC),DAN MIDLINE			
25	MODUL APLIKASI	Commutan	Granted	2020
	PENENTUAN LOKASI	Computer	Grantea	2020
		Copyright		
	VENTRALINTERMEDIATE			
	NUCLEUS (VIM) SECARA OTOMATISBERDASARKAN			
	METODE COORDINATE-			
36	BASED MODILL A PLUZA SI	C	C . 1	2020
26	MODUL APLIKASI	Computer	Granted	2020
	PENENTUAN LOKASI	Copyright		
	VENTRALINTERMEDIATE			
	NUCLEUS (VIM) SECARA			
	OTOMATIS BERDASARKAN			
	METODE GUIOT	G		2020
27	MODUL APLIKASI DICOM	Computer	Granted	2020
	EXPORTER UNTUK	Copyright		
	MENGEKSPOR DIGITAL			
	IMAGING AND			
	COMMUNICATION IN			
	MEDECINE (DICOM)KE			
	APLIKASI LAIN			
28	MODUL APLIKASI	Computer	Granted	2020
	PENGELOLAAN FILE	Copyright		
	DICOM MENJADI FILE			
	DICOM STANDARD			
29	MODUL FUSI MEDICAL	Computer	Granted	2020
	IMAGE UNTUK	Copyright		
	MENAMPILKAN			
J 1				

		CADI	NICAN CAMBAR DARI					1
			NGAN GAMBAR DARI AGAI MODALITAS					
	30		JL APLIKASI	Com	puter	Gro	ınted	2020
			RATE 3D GENERATOR		right			
			K MENGHASILKAN	Сору	11811			
			DDEL YANG AKURAT					
			ASARKAN DIGITAL					
		IMAG	ING AND					
		COMN	MUNICATIONS IN					
		MEDI	CINE (DICOM)					
	31	APLIK	ASI "MOLEN" –	Com	puter	Gra	anted	2019
			LE ELECTRONIC NOSE	Copy	right			
			K DETEKSI KUALITAS					
		DAGI	NG SAPI					
Important							1	
Important publications over	No	Year	Title and Authors		Vol/N	lo	Journ	al
the last 5 years	1	2021	Riyanarto Sarno, Kelly l	Rossa				
, s , s , s , s			Sungkono, Muhammad					
			Taufiqulsa'di, Hendra	_				
			Darmawan, Achmad Fahr			-		al of Big
			Kuwat Triyana. <i>Improving</i>	_	Accep	oted		Scopus
			Efficiency for Discovering				Q1)	
			Business Processes Conta	_				
			Invisible tasks in Non-free Choice	!				
	2	2021	Choice				Journa	ol of
		2021	Dewi Rahmawati, Riyana	n			King	
			Sarno. Anomaly Detection			1		rsity-
			using Control Flow Patter		Vol. 3			uter and
			and Fuzzy Regression in I		Issue	1	Inform	
			Container Handling				Science	ces
			Ü				(Scop	us Q1)
	3	2021					Journa	al of
			Aziz Fajar, Riyanarto Sa	rno,			King	
			Chastine Fatichah, Achma				Unive	•
			Fahmi. Reconstructing an	d	In Pre	ess	_	uter and
			resizing 3D images from					nation
			DICOM files				Science	
	4	2021	Dady Dahman Wilaya				(Scop	us Q1)
		2021	Dedy Rahman Wijaya, Riyanarto Sarno , Enny				Sanga	rs and
			Zulaika. <i>DWTLSTM for</i>					tors B:
			Electronic Nose Signal		Vol. 3	326	Chem	
			Processing in Beef Quality	v			us Q1)	
			Monitoring	J			que	~ · · · · ·
	5	2021	Riyanarto Sarno, Kuwat					
			Triyana, Shoffi Izza Sabil					
			Dedy Rahman Wijaya, Dv	wi				
			Sunaryono, dan Chastine				IEEE	Access
			Fatichah. Detecting Pork		Vol. 8	3		us Q1)
			Adulteration in Beef for H	Ialal			(Scop	~ (1)
			Authentication Using an					
			Optimized Electronic Nos	e				
			System		1			

6	2021	Irene RHT Tangkawarow, Riyanarto Sarno, Daniel Siahaan. Modeling Business Rule Parallelism by Introducing Inclusive and Complex Gateways in Semantics of Business Vocabulary and Rules.	Vol. 14, Issue 1	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
7	2021	Nabil Haidarrahman Pribadi, Riyanarto Sarno , Adhatus Solichah Ahmadiyah, Kelly Rossa Sungkono. Semantic Recommender System Based on Semantic Similarity Using FastText and Word Mover's Distance	Vol. 14, Issue 2	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
8	2021	Kelly R. Sungkono, Riyanarto Sarno , Fransisca D. Amadea, Ariqoh F. Irbah. <i>Graph-Based Process Model Discovery for Mining Invisible Non-Prime Tasks in Hybrid Choice-Parallel Relationships</i>	Vol. 14, Issue 3	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
9	2021	Malikhah, Riyanarto Sarno , Shoffi Izza Sabilla. Ensemble Learning for Optimizing Classification of Pork Adulteration in Beef Based on Electronic Nose Dataset	Vol. 14, Issue 4	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
10	2021	Achmad Fahmi, Heri Subianto, Priya Nugraha, Muhammad Hamdan, Asra Al Fauzi, Anggraini Dwi Sensusiati, Budi Utomo, Riyanarto Sarno, Agus Turchan, Mohammad Hasan Machfoed, Takaomi Taira, Abdul Hafid Bajamal. VIM Line Technique for Determining the Ventral Intermediate Location	31(4)	Turkish Neurosurgery (Scopus Q3)
11	2020	Shoffi Izza Sabilla, Riyanarto Sarno , Kuwat Triyana, Kenshi Hayashi. Deep Learning in a Sensor Array System based on the Distribution of Volatile Compounds from Meat Cuts using GC-MS Analysis	Vol. 29, 2020	Sensing and Bio-Sensing Research (Scopus Q1)
12	2020	Dedy Rahman Wijaya, Riyanarto Sarno , Enny Zulaika. Noise Filtering Framework for Electronic Nose Signals: An application for beef quality monitoring	Vol. 157, February 2019	Computers and Electronics in Agriculture (Scopus Q1)
13	2020	Mhd Arief Hasan, Riyanarto Sarno , Shoffi Izza Sabilla.	Vol. 13, No.5	International Journal of

		Optimizing Machine Learning Parameters for Classifying the Sweetness of Pineapple Aroma Using Electronic Nose		Intelligent Engineering & Systems (IJIES) (Scopus Q2)
14	2020	Muhammad Ainul Yaqin, Riyanarto Sarno, Siti Rochimah. Measuring Scalable Business Process Model Complexity Based on Basic Control Structure	Vol. 13, No.6	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
15	2020	Riyanarto Sarno, Fernandes Sinaga, Kelly Rossa Sungkono. Anomaly Detection in Business Processes using Process Mining and Fuzzy Association Rule Learning	Vol. 7, No. 5	Journal of Big Data (Scopus Q1)
16	2020	Riyanarto Sarno, Shoffi Izza Sabilla, Dedy Rahman Wijaya, Dwi Sunaryono, Chastine Fatichah. Electronic nose dataset for pork adulteration in beef	Vol. 32	Data in Brief (Scopus Q2)
17	2020	Riyanarto Sarno, Shoffi Izza Sabilla, Dedy Rahman Wijaya, Hariyanto. Electronic Nose for Detecting Multilevel Diabetes using Optimized Deep Neural Networ	Vol. 28, No. 1, 2020	Engineering Letters (Scopus Q2)
18	2020	Achmad Fahmi, Heri Subianto, Priya Nugraha, Muhammad Hamdan, Asra Al Fauzi, Anggraini Dwi Sensusiati , Budi Utomo, Riyanarto Sarno, Agus Turchan, Mohammad Hasan Macfoed, Takaomi Taira, Abdul Hafid Bajamal. Vim line technique thalamotomy for Parkinson tremor: Case series	Vol. 77	International Journal of Surgery Case Report (Scopus Q3)
19	2020	Yohanes Setiawan, Chastine Fatichah, Riyanarto Sarno . A New Local Gaussian Variational Level Set for Globus Pallidus Segmentation	Vol. 13, No. 5	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
20	2020	Khairiyyah Nur Aisyah, Chastine Fatichah, Riyanarto Sarno . Multilevel Thresholding and Morphological Relationship Approach for Automatic Detection of Anterior and Posterior Commissure in Mid-	Vol. 13, No. 5	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)

		sagittal Brain MRI		
21	2020	Yohanes Setiawan, Kelly Rossa Sungkono, Riyanarto Sarno . A New Similarity Method based on Weighted Graph Models for Matching Parallel Business Process Models	Vol. 13, No. 5	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
22	2020	Khairiyyah Nur Aisyah, Kelly Rossa Sungkono, Riyanarto Sarno . A New Similarity Method based on Weighted- Linear Temporal Logic Tree and Weighted Directed Acyclic Graph for Graph-based Business Process Models	Vol. 13, No. 5	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
23	2020	Adiba Sabilla Ajrina, Riyanarto Sarno, Hari Ginardi, Aziz Fajar. Mining Zone Determination of Natural Sandy Gravel using Fuzzy AHP and SAW, MOORA and COPRAS Methods.	Vol. 13, No. 5	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
24	2020	Sulaiman Wakhid, Riyanarto Sarno , Shoffi Izza Sabilla, Dike Bayu Maghfira. Detection and Classification of Indonesian Civet and Non- Civet Coffee Based on Statistical Analysis Comparison Using E-Nose.	Vol. 13, No. 4	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
25	2020	Sinarring Azi Laga, Riyanarto Sarno . Temperature effect of electronic nose sampling for classifying mixture of beef and pork	Vol. 19, No. 3	Indonesian Journal of Electrical Engineering and Computer Science (Scopus Q3)
	2020	Ryco Puji Setyono, Riyanarto Sarno . Comparative method of moora, copras and topsis based on weighting of best worst method in supplier selection at ABC mining companies in Indonesia	Vol. 19, No. 2	Indonesian Journal of Electrical Engineering and Computer Science (Scopus Q3)
	2020	Indra Waspada, Riyanarto Sarno , Kelly Rossa Sungkono. An Improved Method of Parallel Model Detection for Graph-Based Process Model Discovery	Vol. 13, No. 2	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
28	2020	Budi Harjo, Riyanarto Sarno , Siti Rochimah. <i>Automatic Web</i> Service Composition for SaaS	Vol. 13, No. 2	International Journal of Intelligent

		Business Intelligence		Engineering & Systems (IJIES) (Scopus Q2)
29	2020	Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah. Enhancing the performance of sentiment analysis task on product reviews by handling both local and global context	Vol. 12, No. 1	International Journal of Information and Decision Sciences (Scopus Q3)
30	2020	Suhariyanto, Riyanarto Sarno , Chastine Fatichah, Edi Faisal. Aspect Based Sentiment Analysis: A Systematic Literature Review	Vol. 5, No. 1	Journal of Applied Intelligent System
31	2019	Cahyaningtyas Sekar Wahyuni, Kelly Rossa Sungkono, Riyanarto Sarno . Novel Parallel Business Process Similarity Methods based on Weighted-Tree Declarative Pattern Models	Vol. 13, No. 1, pp. 65-77	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
32	2019	Ahmad Yusuf Ardiansyah and Riyanarto Sarno. Performance Analysis of Wireless Sensor Network with Load Balancing for Data Transmission using XBEE ZB Module	vol. 14, no. 2, pp. 1-13	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)
33	2019	Afrianda Cahyapratama, Kelly Rossa Sungkono, Riyanarto Sarno . <i>Gap Analysis Business</i> <i>Process Model by Using</i> <i>Structural Similarity</i>	vol. 14, no. 2, pp. 1-12	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)
34	2019	M. Jupri and Riyanarto Sarno . <i>Data Mining</i> , <i>Fuzzy AHP And TOPSIS For Optimizing Taxpayer Supervision</i>		Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)
35	2019	Maryamah, Agus Zainal Arifin, Riyanarto Sarno , Yasuhiko Morimoto. <i>Query</i> Expansion Based on Wikipedia Word Embedding and BabelNet Method for Searching Arabic Documents Bagus Setya Rintyarna,	vol. 12, no. 5, pp. 202-213	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2) Journal of Big
	/	Riyanarto Sarno, Chastine	84, pp. 1-	Data (Scopus

		Fatichah. Evaluating the	19	(01)
		Performance of Sentence Level	17	Q1)
		Features and Domain		
		Sensitive Features of Product		
		Reviews on Supervised		
		Sentiment Analysis Tasks		
37	2019	Dedy Rahman Wijaya, Riyanarto Sarno, Enny Zulaika. Noise filtering framework for electronic nose signals: An application for	Volume 157, Pages 305-321.	Elsevier, Com puters and Electronics in Agriculture
		beef quality monitoring		(Scopus Q1)
38	2019	Farza Nurifan, Riyanarto Sarno , Kelly Rossa Sungkono. Aspect based Sentiment Analysis for Restaurant Reviews using Hybrid ELMo- Wikipedia and Hybrid Expanded Opinion Lexicon- SentiCircle	vol. 12, no. 6, pp. 47-58	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
39	2019	Ari Firmanto, Riyanarto		International Journal of
		Sarno. Aspect-Based Sentiment Analysis Using Grammatical Rules, Word Similarity, and SentiCircle	Vol. 12, No. 5	Intelligent Engineering & Systems (IJIES) (Scopus Q2)
40	2019	Umi Salamah, Riyanarto Sarno , Agus Zainal Arifin, Anto Satriyo Nugroho, Ismail Ekoprayitno Rozi, Puji Budi Setia Asih. Enhancement of low quality blood smear image using contrast and edge corrections.	In Press	Int. J. Biomedical Engineering and Technology (Scopus Q3)
41	2019	Riyanarto Sarno, Kelly Rossa Sungkono. A Survey of graph- based algorithms for discovering business processes	Vol. 5, No. 2	International Journal of Advances in Intelligent Informatics (IJAIN) (Scopus Q3)
42	2019	Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah. Semantic Features for Optimizing Supervised Approach of Sentiment Analysis on Product Reviews	Vol. 8, No. 3	Computers (Scopus Q2)
43	2019	Bambang Jokonowo, Riyanarto Sarno, Siti Rochimah, Bagus Priambodo. Process Mining: Measuring Key Performance Indicator Container Dwell Time	Vol.16, No. 1,	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)

		1	T	T
	4 2019	Reza Amalia Priyantina, Riyanarto Sarno. Sentiment Analysis of Hotel Aspect for Optimization Management Hotel Review Analysis Using Latent Dirichlet Allocation (LDA) Similarity and Sentiwordnet.	Vol. 12, Issue 4	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
4:	5 2019	Dewi Ayu Khusnul Khotimah, Riyanarto Sarno . Sentiment Analysis of Hotel Aspect Using PLSA (Probability Latent Semantic Analysis).	Vol. 12, Issue 4	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
40	5 2019	Kelly Rossa Sungkono, Ulva Erida Nur Rochmah, Riyanarto Sarno . Heuristic Linear Temporal Logic Pattern Algorithm in Business Process Model.	Vol. 12, Issue 4	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
4'	7 2019	Aziz Fajar, Riyanarto Sarno . Agent Based Simulation and Optimization of Parallel Task to Reduce Asynchronous Waiting Time on Business Process.	Vol 17, No 4	TELKOMNIK A (Scopus Q3)
43	3 2019	Irwan Alnarus Kautsar, Riyanarto sarno. A Supportive Tool for Project Based Learning and Laboratory Based Education	Vol.9, No. 2, pp.630- 639.	International Journal on Advanced Science Engineering and Information Technology
49	2019	Lukman Hakim, Riyanarto Sarno , Kelly Rossa Sungkono. <i>Modified Alpha++ Algorithm</i> for Discovering the Hybrid of Non-Free Choice and Invisible Task of Business Processes.	Vol. 12, Issue 3, pp. 31-40	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
50	2019	Dedy Rahman Wijaya, Riyanarto Sarno, Enny Zulaika. Noise Filtering Framework for Electronic Nose Signals: An application for beef quality monitoring.	Vol. 157	Elsevier, Computers and Electronics in Agriculture (Scopus Q1)
5	2019	Mohammad Fikri, Riyanarto Sarno . A Comparative Study of Sentiment Analysis using SVM and SentiWordNet	Vol. 13, No. 3, pp. 902-909	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS)

				(Scopus Q3)
52	2019	Riyanarto Sarno, Kelly Rossa Sungkono, Reynaldo Johanes, Dwi Sunaryono. Graph-Based Algorithms for Discovering A Process Model Containing Invisible Tasks.	Vol. 12, Issue 2, pp.85-94	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
53	2019	Riyanarto Sarno, Dedy Rahman Wijaya. Recent Development in Electronic Nose Data Processing for Beef Quality Assessment.	Vol. 17, No. 1, pp.337- 348	TELKOMNIK A (Scopus Q3)
54	2019	Gita Intani Budiawati, Riyanarto Sarno. Time and Cost Optimization of Business Process RMA using PERT and Goal Programming.	Vol. 17, No. 2	TELKOMNIK A (Scopus Q3)

Activities in specialist bodies over the last 5 years

Taught Courses:

2016

- Odd Semester:

Bachelor: Systems Audit

Master: Advance topics in System Audit, Advance topics in

Software Project Management

- Even Semester:

Bachelor: Knowledge Engineering, Enterprise System, Specific

Topics in Intelligent Information Management

Master: Advance topics in Knowledge Based Engineering

2017

- Odd Semester:

Bachelor: Systems Audit, Knowledge Engineering

Master: Software Engineering, Advance topics in System Audit

- Even Semester:

Bachelor: Software Project Management, Enterprise System **Master:** Advance topics in Knowledge Based Engineering

2018

Odd Semester:

Master: Software Engineering, Advance topics in System Audit, Advance topics in Software Evolution

- Even Semester:

Bachelor: Software Project Management, Enterprise System,

Introduction to Process Mining

Master: Advance topics in Software Project Management,

Advance topics in Knowledge Based Engineering

2019

Odd Semester:

Bachelor: Software Project Management

Master: Software Engineering

- Even Semester:

Bachelor: System Audit, Introduction to Process Mining,

20	20
	- Odd Semester:
	Bachelor: Software Project Management
	Master: Software Engineering, Advance topics in System Audit
	- Even Semester:
	Master: Advance topics in Software Project Management
Inte	ernational Journal Editor:
1.	International Journal of Intelligent Engineering and Systems
2.	International Journal of Advances in Intelligent Informatics
Inte	ernational Journal Reviewer:
1.	Journal of King Saud (2020)
2.	IEEE Access (2020)

Name	Ratih Nur Esti Anggraini, S.Kom., M.Sc., Ph.D.
Position	Lecturer
Academic career	 Bachelor's degree (Computer Science), Sepuluh Nopember Institute of Technology, Indonesia, 2008. Master's degree (Science), National Taiwan University of Science and Technology, Taiwan, 2012. Doctoral degree (Mathematic Engineering), University of Bristol, 2021.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 The Development of Research Ethics Review System (STEPDAL) based on Rule Engine and Text Understanding for Ethical Review Result Recommendation, 2021 The Development of Automatic Reviewer Scheduling Module in Research Ethics Review System, 2021 Flexible Requirement Verification for Adaptive Systems, 2020 Mobile Application for Guidance and Provision of Toddler's Nutrition to Support e-PKK, 2016 PKK-man: A System to Manage PKK Activities in Indonesia, 2016 Tools for Detecting Punctuation Errors in Scientific Papers, 2016 Infant and Pregnancy Encyclopedia Application, 2015 Decomposition using Refined Process Structure Tree (RPST) and Control Flow Complexity Metrics, 2015 KMS-CS: A Client Server Application for Storing Toddler Health Information in Posyandu, 2015
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 A Graded Approach to Requirement Satisfaction for Evolving Systems, 2019 Capturing Requirement Correlation in Adaptive Systems, 2018 Fuzzy Representation for Flexible Requirement Satisfaction, 2017
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Software Design, Analysis and Design of Information Systems, Database Systems Even Semester: Software Design Process, Database Management
	2021 - Even Semester: Database Management, Analysis and Design of

Information Systems, Computer Programming, Knowledge-based
Engineering

Name	Nurul Fajrin Ariyani, S.Kom., M.Sc.
Position	Assistant Professor
Academic career	- Bachelor's degree (Computer Science), Sepuluh Nopember Institute of
	Technology, Indonesia, 2008.
	- Master's degree (Science), National Taiwan University of Science and
	Technology, Taiwan, 2012.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
1 3	Informatics Technology
Research and	The Rule Engine Development of the Ethical Protocol Review Process
development	for the Recommendation of the Ethical Review Results, Institution
projects over the	Funding (Institut Teknologi Sepuluh Nopember), 2021.
last 5 years	2. The Development of Research Ethics Review System (STEPDAL)
•	Based on Rule Engine and Text Understanding for the Recommendation
	of Ethical Review Results, Institution Funding (Institut Teknologi
	Sepuluh Nopember), 2021.
	3. Offline Storage Implementation for Mobile Application of Livestock
	Management SITERNAK, Department Funding (Institut Teknologi
	Sepuluh Nopember), 2021.
	4. An Automatic Review Scheduling Module in The Digital Research
	Ethics System (STEPAL) Application, Department Funding (Institut
	Teknologi Sepuluh Nopemeber), 2021.
	5. Improvement of Preprocessing Method using Pre-trained Model for
	Detecting Semantic Similarities in Documents Using Deep Learning,
	Department Funding (Institut Teknologi Sepuluh Nopember), 2021.
	6. Automatic Process Model Formation for Waste Management of Health
	Facilities using Graph Database, Department Funding (Institut
	Teknologi Sepuluh Nopember), 2020.
	7. Fraud Detection in Procurement of Residential Building Construction
	Materials, Department Funding (Institut Teknologi Sepuluh
	Nopember), 2020.
	8. Digitalization of Scientific Reports Metadata on Interlibrary Loan
	System using Semantic Annotation, Department Funding (Institut
	Teknologi Sepuluh Nopember), 2019.
	9. Requirement Engineering in the Interlibrary Loan System to Improve
	Collection Loan Services (Case Study of Departmental Reading Room
	at ITS), Department Funding (Institut Teknologi Sepuluh Nopember),
	2018.
	10. Implementation of Graph Database in Generating Applications for the
	Genealogy of the Royal Family in Indonesia Utilizing Metadata in
	Wikipedia Articles, Department Funding (Institut Teknologi Sepuluh
	Nopember), 2018.
	11. Implementation of Scalable Inference and Query Engine to Find and
	Complete Kinship Relationships Between Characters on the Indonesian
	History Portal Website, Institution Funding (Institut Teknologi Sepuluh
	Nopember), 2017.
	12. Implementation of Ontology Matching Method for Data Integration and
	Searching Relationships Between Indonesian Historical Figures,
	Institution Funding (Institut Teknologi Sepuluh Nopember), 2016.

To decades 11.1	1 Detailers Applicate The III 1 E1 of Detail Control of
Industry collaborations over the last 5 years	1. Database Architect, The Higher Education Database Center of Indonesia (PDDIKTI), 2021.
,	2. Database Consultant, Reporting and Assessment System of the Surabaya
	Regional Work Unit Performance E-Data, 2018.
	3. Database Specialist, Online Selection Entrance Systems for Public High
	School in East Java, 2017 – 2018.
Patents and	MyITS Security Management: An Application for user controlling and
proprietary rights	administration within Institut Teknologi Sepuluh Nopember (ITS).
	Copyright No: EC00202047053, 2020.
Important	1. NF. Ariyani, N. Meutia, AS. Ahmadiyah, KR Sungkono, R. Sarno, A.
publications over	Munif, 2020, Design and Implementation of Barcode Technology in
the last 5 years	Livestock Data Information Systems in LAZ Al-Azhar. Sewagati 4 (3), 197-203.
	2. Ariyani, N.F. , Munif, A., Ayunin, P.Q., 2019, August. An Automatic
	Annotation Mehod on MOOC's Learning Content. In International
	Conference on Information & Communication Technology and Systems
	(ICTS).
	3. Ariyani, N.F., Saralita, M., Sarwosri, Sarno, R., 2018, March. Refining
	the Relationships among Historical Figures by Implementing Inference
	Rules in SWRL. In International Conference on Information Technology
	and Digital Applications (ICITDA).
	4. HARTANTO, H.A., SARNO, R. and ARIYANI, N.F., 2017. Warning
	Criterion Ontology for Measuring of Compliance in Standard Operating
	Procedure Implementation. Journal of Theoretical & Applied
	Information Technology, 95(24).
	5. Sungkono, K.R., Sarno, R., Ariyani, N.F., 2017, October. Refining
	Business Process Ontology Model with Invisible Prime Tasks using SWRL Rules. In International Conference on Information &
	Communication Technology and Systems (ICTS).
	6. Fauzan, A.C., Sarno, R., Ariyani, N.F. , 2017, October. Structure-based
	Ontology Matching of Business Process Model for Fraud Detection. In
	International Conference on Information & Communication Technology
	and Systems (ICTS).
	7. Ariyani, N.F., Hanafi, M.B., Ginardi, H. and Saralita, M., 2016, October.
	Linking spatial information of cultural heritage metadata with geo linked
	open data. In Information Technology Systems and Innovation (ICITSI),
	2016 International Conference on (pp. 1-5). IEEE.
	8. Wiguna, K.A., Sarno, R. and Ariyani, N.F. , 2016, October. Optimization
	Solar Farm site selection using Multi-Criteria Decision Making Fuzzy
	AHP and PROMETHEE: case study in Bali. In Information &
	Communication Technology and Systems (ICTS), 2016 International
	Conference on (pp. 237-243). IEEE.
	9. Hartanto, H.A., Sarno, R. and Ariyani, N.F. , 2016, August. Linked
	warning criterion on ontology-based key performance indicators. In Technology of Information and Communication (ISemantic),
	International Seminar on Application for (pp. 211-216). IEEE.
Activities in	2016
specialist bodies	- Odd Semester: Database System, Software Design
over the last 5	- Even Semester: Database System, Special Topics in Knowledge Based
years	Systems, Requirement Engineering, Knowledge Engineering,
	Undergraduate Pre-Thesis, Software Engineering Economics

 2017 Odd Semester: Software Design, Database System Even Semester: Algorithm and Computer Programming, Requirement Engineering, Knowledge Engineering
 Odd Semester: Analysis and Design of Information Systems, Knowledge Engineering, Software Design Even Semester: Requirement Engineering, Database Management, Analysis and Design of Information Systems
 2019 Odd Semester: Software Design, Database System, Knowledge Engineering Even Semester: Database Management, Requirement Engineering
 2020 Odd Semester: Database System, Software Design, Discrete Mathematics, Knowledge Engineering Even Semester: Database Management, Requirement Engineering

Name	Adhatus Solichah A., S.Kom., M.Sc.
Position	Assistant Professor
Academic career	 Bachelor's degree (Computer Science), Sepuluh Nopember Institute of Technology, Indonesia, 2009. Master's degree (Computer Science), National Taiwan University of Science and Technology, Taiwan, 2013.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 2021: Principal Investigator, Project: Halal Critical Control Points Identification using Graph Approach (<i>Identifikasi Halal Critical Control Points dengan Pendekatan Graf</i>) 2021: Team leader, Community Service: Assistance in Managing Micro and Small Business Products Circulation Permits at the ITS Campus Canteen (<i>Pendampingan Pengurusan Ijin Edar Produk UMKM di Kantin Kampus ITS</i>) 2021: Principal Investigator, Project: Fraud Detection in the Procurement of Residential Building Construction Materials (<i>Deteksi Kecurangan (Fraud) Pada Pengadaan Material Konstruksi Bangunan Rumah Tinggal</i>) 2020: Team leader, Community Service: Counseling and Assistance for Halal Food and Beverage Products at the Informatics Cafeteria and ITS Library Canteen (<i>Sosialisasi dan Pendampingan Produk Makanan dan Minuman Halal di Kafetaria Informatika dan Kantin Perpustakaan ITS</i>) 2019: Principal Investigator, Project: Digitizing Metadata of Scientific Reports Collection on Interlibrary Loans with Semantic Annotations (Digitizing Metadata Collection of Scientific Reports on Interlibrary Loans with Semantic Annotations) 2019: Principal Investigator, Project: Requirement Engineering in the Interlibrary Loan System to Improve Collection Loan Services (Case Study of Departmental Reading Room at ITS) (<i>Rekayasa Kebutuhan Pada Sistem Interlibrary Loan untuk Meningkatkan Layanan Peminjaman Koleksi (Studi Kasus Ruang Baca Departemen di ITS</i>))

	 7. 2018: Principal Investigator, Project: Design and Modeling of Multi Agent Systems Business Process Interlibrary Loan Case Study ITS Library and Reading Room (<i>Desain dan Pemodelan Sistem Multi-Agen Proses Bisnis Interlibrary Loan Studi Kasus Perpustakaan dan Ruang Baca ITS</i>) 8. 2017: Principal Investigator, Project: Study of the Maturity Level of ITS
	Library Information Technology in User Services (Preparing ITS Libraries Towards World Class University Libraries in Asia) (Kajian Tingkat Kematangan Teknologi Informasi Perpustakaan ITS Pada Pelayanan Pengguna (Mempersiapkan Perpustakaan ITS Menuju World Class University Library di Asia))
	9. 2016: Principal Investigator, Project: Design and Implementation of Flood and Drought Potential Response Applications (Rancang Bangun Aplikasi Tanggap Potensi Banjir dan Kekeringan)
Industry collaborations over the last 5 years	1. 2021: PT. PLN (Persero) Unit Pelaksana Pengatur Distribusi Jawa Timur (East Java Maintenance Department, State Electricity Company (PLN)) in Developing Web and Mobile Apps for Work Order and
	Assignment Letters 2. 2021: <i>Pengadilan Agama Kabupaten Kediri</i> (Religious Court of Kediri District) in Developing a web-based user satisfaction survey
	 2020: CV. Bangun Karya Sejahtera in Developing Construction Project Monitoring Information System 2018: Dinas Pendidikan Provinsi Jawa Timur (East Java Provincial
	Education Office) in Developing Teacher Promotion Assessment Information System
Patents and proprietary rights	None
Important publications over the last 5 years	1. Nabil Haidarrahman Pribadi, Riyanarto Sarno, Adhatus Solichah Ahmadiyah, Kelly Rossa Sungkono. "Semantic Recommender System Based on Semantic Similarity Using FastText and Word Mover's Distance." International Journal of Intelligent Engineering and Systems,
	vol. 14, Issue 2, 2021, pp.377-385. DOI: 10.22266/ijies2021.0430.34 2. Adhatus Solichah Ahmadiyah, Riyanarto Sarno, Fony Revindasari. "Adopted Topic Modeling for Business Process and Software Component Conformity Checking." TELKOMNIKA, Vol. 18, No. 6, December 2020 pp. 2939-2947.
	3. Adhatus Solichah Ahmadiyah, Faridatul Aidah, Navinda Meutia, Denise Rahmadina, Daniel Lumbantobing, Ratih Anggraini. "Remarketing Media Alternatives Based on Customer Preferences." JUTI: Jurnal Ilmiah Teknologi Informasi Vol. 18, No. 2, July 2020 pp. 188-196.
	4. Davi Wahyuni, Yeni Anita Gonti, Eva Mursidah, Adhatus Solichah . "Pengukuran Tingkat Kematangan Layanan Pengguna Perpustakaan ITS Berbasis Teknologi Informasi (Perpustakaan ITS Menuju WCUL)." Jurnal Perpustakaan Universitas Airlangga Vol 9, No 1, 2019 pp. 11 – 18.
	5. Hendra Darmawan, Riyanarto Sarno, Adhatus Solichah Ahmadiyah , Kelly Rossa Sungkono, Cahyaningtyas Sekar Wahyuni. "Anomaly Detection Based on Control-flow Pattern of Parallel Business Processes."
	 TELKOMNIKA, Vol. 16, No. 6, December 2018 pp. 2809-2816. 6. Adhatus Solichah Ahmadiyah, Indira Nursyamsina Hazimi, Dicky Maulana Rozi, Rizky Andre Wibisono, Donny Fitrado, M. Ardika Rifqi, Riyanarto Sarno, Kelly Rossa Sungkono. "Business Processes Discovery

in Halal Restaurant Kitchen Using Graph Based Algorithm". 2021 IEEE

- 7. Kelly Rossa Sungkono, **Adhatus Solichah Ahmadiyah**, Riyanarto Sarno, Muhammad Farhan Haykal, Muhammad Rayhan Hakim, Bagas Juwono Priambodo, Muhammad Amir Fauzan, Muhammad Kiantaqwa Farhan. "Graph-Based Process Discovery Containing Invisible Non-Prime Task in Procurement of Animal-Based Ingredient of Halal Restaurants". 2021 IEEE Asia Pacific Conference on Wireless and Mobile (APWiMob).
- 8. Adhatus S Ahmadiyah, Tubagus I I Apriwibowo, Adnan E Raharja, Salsha A Amosea, and Hayu A. Radriyantami. "Investment Recommendation System on Agriculture Peer-to-Peer Lending Websites" in The Joint Conference of 2nd International Conference on Industrial and System Engineering (IConISE) and 7th Annual Conference on Industrial and System Engineering (ACISE). Surabaya, Indonesia July 22-23, 2020.
- 9. Adhatus S Ahmadiyah, Yuki Y Ratna, Nitama N Yotifa, and Izzah Dinillah. "Supplementary Quality Control Features for The Production Department in Odoo ERP" in The Joint Conference of 2nd International Conference on Industrial and System Engineering (IConISE) and 7th Annual Conference on Industrial and System Engineering (ACISE). Surabaya, Indonesia July 22-23, 2020.
- 10. Moh Khozain and **Adhatus S Ahmadiyah**. "IoT based kWh Meter Recorder System for Electrical Substation" in The Joint Conference of 2nd International Conference on Industrial and System Engineering (IConISE) and 7th Annual Conference on Industrial and System Engineering (ACISE). Surabaya, Indonesia July 22-23, 2020.
- 11. Andreyan Rizky Baskara, Riyanarto Sarno, **Adhatus Solichah**. "Discovering Traceability between Business Process and Software Component using Latent Dirichlet Allocation" in International Conference on Informatics and Computing (ICIC). Pages: 251 256, 2016. DOI: 10.1109/IAC.2016.7905724.
- 12. Fony Revindasari, Riyanarto Sarno, **Adhatus Solichah**. "Traceability Between Business Process and Software Component using Probabilistic Latent Semantic Analysis" in International Conference on Informatics and Computing (ICIC). Pages: 245 250, 2016. DOI: 10.1109/IAC.2016.7905723.
- 13. Rahmi Rizkiana Putri, Riyanarto Sarno, Daniel Oranova Siahaan, **Adhatus Solichah**. "Accuracy Improvement of The Estimations Effort in COCOMO II based on Logic Model of Fuzzy" in International Conference on Energy, Environment and Information System (ICENIS), 2016, pp. 2478-2480. DOI: https://doi.org/10.1166/asl.2017.8767.
- 14. Fachrul Pralienka Bani Muhamad, Riyanarto Sarno, **Adhatus Solichah Ahmadiyah**, Siti Rochimah. "Visual GUI Testing in Continuous Integration Environment" in International Conference on Information & Communication Technology and Systems (ICTS), Pages: 214 219, 2016. DOI: 10.1109/ICTS.2016.7910301.

Activities in specialist bodies over the last 5 years

2020

- Odd Semester: Software Design, Enterprise Systems, Discrete Mathematics, Database Systems
- Even Semester: Information System Analysis and Design, Database Management, Information Technology Governance

2019

- Odd Semester: Software Design, Enterprise Systems, Database

	Systems, Database Management
_	
	·
	Management, Information Technology Governance
2018	3
-	Software Design, Analysis and Design of Information Systems,
	Database Systems
_	Even Semester: Database Management
2013	7
201	
-	Odd Semester: Database Systems, Analysis and Design of Information
	Systems, Information Technology Governance, Analysis and Design
	of Information Systems
-	Even Semester: Requirements Engineering, Computer Algorithm and
	Programming, Database Management
2016	
	Odd Semester: Information Systems Analysis and Design,
	Information Technology Governance, Database Systems
	•
_	Even Semester: Requirements Engineering, Software Project
	Management, Information Management Special Topics, Algorithms
	and Computer Programming

Name	Abdul Munif, S.Kom., M.Sc.
Position	Assistant Professor, Studentship Consultation Officer
Academic career	 Bachelor's degree (Computer Science), Sepuluh Nopember Institute of Technology, Indonesia, 2008. Master's degree (Science), National Taiwan University of Science and Technology, Taiwan, 2011.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 Preprocessing Improvement using Pretrained Model for Detecting Semantic Similarities in Documents using Deep Learning, Department Funding (Institut Teknologi Sepuluh Nopember), 2021 Fraud Detection in Procurement of Residential Building Construction Materials, Department Funding (Institut Teknologi Sepuluh Nopember), 2020. Automatic Process Model Formation for Waste Management of Health Facilities using Graph Database, Department Funding (Institut Teknologi Sepuluh Nopember), 2020. Digitalization of Scientific Reports Metadata on Interlibrary Loan System using Semantic Annotation, Department Funding (Institut Teknologi Sepuluh Nopember), 2019. Crowdsourcing Incident Detection with Spatial and Temporal Information using Deep Learning, National Strategic Research Scheme (Directorate of Higher Education), 2018-2020. Online Services for Spatial Information Based on Detailed Spatial Planning (Case Study: Surabaya), Department Funding (Institut Teknologi Sepuluh Nopember), 2016. Mobile Apps for Poverty Mapping, Department Funding (Institut Teknologi Sepuluh Nopember), 2016.
Industry collaborations over the last 5 years	1. 2021 - Telin Malaysia: Developing Dashboard Visualization for Customer Transactions

	2. 2019-2020 - Bank Jatim: Penetration Testing for Various Banking APPs
	3. 2016 - PT Badak LNG: Developing E-Contract APPs for PT Badak LNG
Patents and	1. 2020, MyITS Single Sign-On (SSO): Identity Access Management
proprietary rights	(IAM) Application for User Authentication and Authorization at Institut
	Teknologi Sepuluh Nopember (ITS), Copyright No: EC00202047150
	2. 2019, Incident Report: Important Event Detection in Urban Area Based
	on Social Media Data Crowdsourcing, Copyright No: EC00201991701
Important	1. Chastine Fatichah, Wildan F. Lazuardi, Dini A. Navastara, Nanik
publications over	Suciati, and Abdul Munif, "A Content Filtering from Spam Posts on
the last 5 years	Social Media using Weighted Multimodal Approach," JCS, vol. 17, no.
	1, Jan. 2021, doi: 10.3844/jcssp.2021.55.66.
	2. Ariyani, N.F., Fadhila, Ivan, Munif, Abdul , Vacation Route
	Recommendation using Ontology and A*, Briliant: Jurnal Riset dan
	Konseptual, 2020, Volume 5, Issue 2, pp. 417-430.
	3. C. Fatichah, P. D. Sammy Wiyadi, D. Adni Navastara, N. Suciati, and
	A. Munif, "Incident Detection based on Multimodal data from Social
	Media using Deep Learning Methods," in 2020 International
	Conference on ICT for Smart Society (ICISS), Nov. 2020, vol.
	CFP2013V-ART, pp. 1–6. doi: 10.1109/ICISS50791.2020.9307555.
	4. Sari, O.L., Adi, T. J.W., Munif, A., Selection Model of Building
	Demolition Method Based on Expert System, Third International
	Conference on Sustainable Innovation 2019 – Technology and
	Engineering (IcoSITE 2019), pp. 58-61.
	5. Ariyani, N.F., Munif , A. , Ayunin, P.Q., An automatic annotation
	method on MOOC's learning content, Proceedings of 2019
	International Conference on Information and Communication
	Technology and Systems, ICTS 2019, 2019, pp. 332–337
	6. Fatichah, C., Lazuardi, W.F., Navastara, D.A., Suciati, N., Munif, A.,
	Image spam detection on instagram using convolutional neural
	<i>network</i> , Lecture Notes in Networks and Systems, 2019, 67, pp. 295–303
	7. Dharmawan, T., Ginardi, H., Munif , A. , <i>Dropout Detection Using Non-</i>
	Academic Data, Proceedings - 2018 4th International Conference on
	Science and Technology, ICST 2018
	8. Abdul Munif , Rizky Januar Akbar, Ruchi Intan Tantra, Rachmania
	Ilavi, The Development of Code Plagiarism Detection and Student
	Feedback Systems in E-Learning Systems, JUTI (Jurnal Ilmiah
	Teknologi Informasi), 2017, Vol. 15, Issue 1, pp. 104-118.
	9. I Made Mustika, R.V.H. Ginardi, Abdul Munif , <i>The Development of</i>
	Mobile Apps for Trans Sarbagita Bali Province, Jurnal Teknik ITS,
	2017, Vol. 6, No. 1, pp. A51-A55
	10. Ginardi, R.V.H., Munif , A. , Nurul, K.W., Khoiruddin, A., Perdana, R.,
	System design to use weather forecast & current condition information
	on travel route with KNN and graphical data on Android application,
	Proceedings of the 11th International Conference on Information and
	Communication Technology and System, ICTS 2017, 2018, 2018-
	January, pp. 287–291
	11. Gervais, H., Munif , A. , Ahmad, T., <i>Using Quality Threshold distance</i>
	to detect intrusion in TCP/IP network, 2016 IEEE International
	Conference on Communication, Network, and Satellite, COMNETSAT
	2016 - Proceedings, 2017, pp. 80–84
	12. Pamungkas, E.W., Sarno, R., Munif , A. , <i>B-BabelNet: Business-specific</i>
	lexical database for improving semantic analysis of business process
	models, Telkomnika (Telecommunication Computing Electronics and
	Control), 2017, 15(1), pp. 407–414
	13. Sarno, R., Wibowo, W.A., Sunaryono, D., Munif, A., Developing

	 workflow patterns based on functional subnets and control - Flow patterns, Proceedings - 2015 International Conference on Science in Information Technology: Big Data Spectrum for Future Information Economy, ICSITech 2015, 2016, pp. 24–29. 14. Sarno, R., Haryadita, F., Sunaryono, D., Munif, A., Model discovery of parallel business processes using modified Heuristic Miner, Proceedings - 2015 International Conference on Science in Information Technology: Big Data Spectrum for Future Information Economy, ICSITech 2015, 2016, pp. 30–35
Activities in specialist bodies over the last 5 years	 Odd Semester: Design and Analysis of Algorithm I, Object Oriented Programming Even Semester: Web Programming, Design and Analysis of Algorithm II, Distributed Database, Big Data Odd Semester: Design and Analysis of Algorithm I, Object Oriented Programming, Information System and Technology Even Semester: Design and Analysis of Algorithm II, Distributed Database, Algorithm and Computer Programming, Big Data
	 Odd Semester: Design and Analysis of Algorithm I, Fundamental Programming, Database Systems, Object Oriented Programming Even Semester: Big Data, Design and Analysis of Algorithm II, Distributed Database Odd Semester: Distributed Database, Web Programming, Object Oriented Programming Even Semester: Distributed Database, Big Data, Framework-based Programming
	 Odd Semester: Distributed Database, Fundamental Programming, Object Oriented Programming, Distributed Database Even Semester: Data Structures, Framework-based Programming, Big Data, Integrative Programming
	 Odd Semester: Object Oriented Programming, Distributed Database, Fundamental Programming Even Semester: Data Structure, Database Management, Framework-based Programming, Big Data, Introduction to Database Technology

Name	Kelly Rossa Sungkono, S.Kom., M.Kom.
Position	Assistant Professor
Academic career	- Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2016.
	- Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2018.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
	Informatics Technology
Research and	1. 2020: Principal Investigator, Project: Pembentukan Model Proses secara
development projects	Otomatis Pengelolaan Limbah Fasilitas Kesehatan dengan menggunakan
over the last 5 years	Graph-Database (Formation of Process Model Automatically for Health
	Facility Waste Management using Graph-Database)

	2. 2019: Principal Investigator, Project: Pembentukan dan Penerapan Enterprise Resource Planning untuk Usaha Kecil Menengah (UKM) Retail (Establishment and Implementation of Enterprise Resource Planning for Small and Medium Enterprises (SMEs) Retail)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	 Video Copyright: Video Visual Workflow dalam Bentuk Animasi 3 Dimensi untuk Kasus Craniosynostosis (Visual Workflow Video in 3-Dimensional Animation for Craniosynostosis Case). Granted, 2020. Computer Copyright: Modul Visual Workflow berdasarkan Model Proses Bisnis untuk Kasus Craniosynostosis (Visual Workflow Module based on Business Process Model for Craniosynostosis Case). Granted. 2020
	3. Computer Copyright: Modul Virtual Reality 3 Dimensi untuk Workflow Kasus Cranioplasty menggunakan File Dicom dari Ct-Scan (3-Dimensional Virtual Reality Module for Cranioplasty Case Workflow Using Dicom File from Ct-Scan). Granted. 2020
	4. Computer Copyright: Modul Virtual Reality Tekstual Image Digital Imaging and Communication in Medicine (Dicom) 3 Dimensi Otak (Module Virtual Reality Textual Image Digital Imaging and Communication in Medicine (Dicom) 3 Dimensions of the Brain). Granted. 2020.
	5. Database Copyright: Basis Data Tekstual Image Digital Imaging and Communication in Medicine (Dicom) 3 Dimensi Otak (<i>Textual Image Database Digital Imaging and Communication in Medicine (Dicom) 3 Dimensions of the Brain</i>). Granted. 2020
	6. Database Copyright: Basis Data Tekstual Image 2 Dimensi Otak Modul Virtual Reality 3 Dimensi untuk Workflow Kasus Craniosynostosis menggunakan File Dicom dari CT-Scan (<i>Textual Database Image 2 Dimensions of the Brain 3 Dimension Virtual Reality Module for Craniosynostosis Case Workflow using Dicom File from CT-Scan</i>). Granted. 2020
Important publications over the last 5 years	1. Riyanarto Sarno, Kelly Rossa Sungkono , Muhammad Taufiqulsa'di, Hendra Darmawan, Achmad Fahmi, Kuwat Triyana. Improving Efficiency for Discovering Business Processes Containing Invisible
	 Tasks in Non-free Choice. Journal of Big Data (Scopus Q1). Accepted. Kelly Rossa Sungkono, Riyanarto Sarno, Fransisca D. Amadea, Ariqoh F. Irbah. Graph-Based Process Model Discovery for Mining Invisible Non-Prime Tasks in Hybrid Choice-Parallel Relationships, International Journal of Intelligent Engineering and Systems (Scopus Q2), vol. 14,
	Issue 3, 2021, pp.425-434. DOI: 10.22266/ijies2021.0430.34 3. Nabil Haidarrahman Pribadi, Riyanarto Sarno, Adhatus Solichah Ahmadiyah, Kelly Rossa Sungkono . Semantic Recommender System Based on Semantic Similarity Using FastText and Word Mover's Distance. International Journal of Intelligent Engineering and Systems (Scopus Q2), vol. 14, Issue 2, 2021, pp.377-385. DOI: 10.22266/ijies2021.0430.34
	4. Yohanes Setiawan, Kelly Rossa Sungkono , Riyanarto Sarno. A New Similarity Method based on Weighted Graph Models for Matching Parallel Business Process Models. International Journal of Intelligent Engineering and Systems (Scopus Q2). Vol. 13, No. 5, 2020, pp. 267-276
	5. Khairiyyah Nur Aisyah, Kelly Rossa Sungkono , Riyanarto Sarno. A New Similarity Method based on Weighted-Linear Temporal Logic Tree and Weighted Directed Acyclic Graph for Graph-based Business Process Models. International Journal of Intelligent Engineering and Systems

- (Scopus Q2). Vol. 13, No. 5, 2020, pp. 356-367
- 6. Indra Waspada, Riyanarto Sarno, Kelly Rossa Sungkono. An Improved Method of Parallel Model Detection for Graph-Based Process Model Discovery. International Journal of Intelligent Engineering and Systems (Scopus Q2), Vol.13, No.2, 2020. DOI: 10.22266/ijies2020.0430.13
- 7. Riyanarto Sarno, Fernandes Sinaga, Kelly Rossa Sungkono. Anomaly Detection in Business Processes using Process Mining and Fuzzy Association Rule Learning. Journal of Big Data (Scopus Q1), vol. 7, no. 5, pp. 1-19, 2020.
- 8. Cahyaningtyas Sekar Wahyuni, Kelly Rossa Sungkono, Riyanarto Sarno. Novel Parallel Business Process Similarity Methods based on Weighted-Tree Declarative Pattern Models. International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2), vol. 12, no. 6, pp. 236-248, 2019. DOI: 10.22266/ijies2019.1231.23
- 9. Afrianda Cahyapratama, **Kelly Rossa Sungkono**, Riyanarto Sarno. Gap Analysis Business Process Model by Using Structural Similarity. Indonesian Journal of Electrical Engineering and Computer Science (IJEECS). 2. 1-12. 2020. vol. 14. no. pp. 10.11591/ijeecs.v14.i2.ppab-cd
- 10. Farza Nurifan, Riyanarto Sarno, Kelly Rossa Sungkono. Aspect based Sentiment Analysis for Restaurant Reviews using Hybrid ELMo-Wikipedia and Hybrid Expanded Opinion Lexicon-SentiCircle. International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2), vol. 12, no. 6, pp. 47-58, 2019. DOI: 10.22266/ijies2019.1231.05
- 11. Riyanarto Sarno, Kelly Rossa Sungkono. A Survey of graph-based algorithms for discovering business processes. International Journal of Advances in Intelligent Informatics (IJAIN), Vol. 5, No. 2, 2019. https://doi.org/10.26555/ijain.v5i2.296
- 12. Kelly Rossa Sungkono, Ulva Erida Nur Rochmah, Riyanarto Sarno. Heuristic Linear Temporal Logic Pattern Algorithm in Business Process Model. International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2), Vol. 12, Issue 4, August 2019
- 13. Lukman Hakim, Riyanarto Sarno, Kelly Rossa Sungkono. Modified Alpha++ Algorithm for Discovering the Hybrid of Non-Free Choice and Invisible Task of Business Processes. International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2), Vol. 12, Issue 3, pp. 31-40. June 2019
- 14. Hendra Darmawan, Riyanarto Sarno, Adhatus Solichah Ahmadiyah, Kelly Rossa Sungkono, Cahyaningtyas Sekar Wahyuni. Anomaly Detection Based on Control-flow Pattern of Parallel Business Processes.TELKOMNIKA, Vol 16, No 6, December 2018, pp.2808-
- 15. Riyanarto Sarno, Kelly Rossa Sungkono. Recovering Truncated Streaming Event Log Using Coupled Hidden Markov Model. International Journal of Pattern Recognition and Artificial Intelligence, Volume 33, Issue 08 (15 July 2019)
- 16. Kelly Rossa Sungkono, Riyanarto Sarno, Constructing Control-Flow Patterns Containing Invisible Task and Non-Free Choice Based on Declarative Model. International Journal of Innovative Computing, Information and Control (IJICIC), ISSN 1349-4198. Volume 14, Number 4, August 2018, pp. 1285–1299. DOI: 10.24507/ijicic.14.04.1285
- 17. Riyanarto Sarno, Kelly Rossa Sungkono and Rizal Septiarakhman. Graph-Based Approach for Modeling and Matching Parallel Business Processes. International Information Institute. vol. 21, no. 5, pp. 1603-1614. 2018

	 Riyanarto Sarno, Kelly Rossa Sungkono, Coupled Hidden Markov Model for Process Mining of Invisible Prime Tasks, International Review on Computers and Software (IRECOS), vol. 11 no. 6, pp. 539-547, 2017. https://doi.org/10.15866/irecos.v11i6.9555 Riyanarto Sarno and Kelly Rossa Sungkono, Hidden Markov Model for Process Mining of Parallel Business Processes, International Review on Computers and Software (IRECOS), vol. 11, no. 4, pp. 290-300, 2016. DOI: https://doi.org/10.15866/irecos.v11i4.8700 Riyanarto Sarno, Widyasari Ayu Wibowo, Kartini, Fitrianing Haryadita, Yutika Amelia Effendi, Kelly Rossa Sungkono, Determining Process Model Using Time-Based Process Mining and Control-Flow Pattern, Telecommunication Computing Electronics and Control (TELKOMNIKA), vol. 14, no. 1, pp. 349-359, 2016. DOI: http://dx.doi.org/10.12928/telkomnika.v14i1.3257
Activities in specialist bodies over the last 5 years	 Odd Semester: Database System, Database Management (Vocational Program, Department of Business Statistics) Even Semester: Database Management, Algorithm and Computer Programming (Bachelor Program, Department of Industrial Engineering)
	 Odd Semester: Database System, Database Management (Vocational Program, Department of Business Statistics) Even Semester: Systems Audit, Introduction to Process Mining, Algorithm and Computer Programming (Bachelor Program, Department of Industrial Engineering)
	 REVIEWER OF JOURNALS OR CONFERENCES: Reviewer of International Journal: Data in Brief (2020) Reviewer of Ilkomnika Journal of Computer Science and Applied Informatics (2020) Reviewer of Journal of Development Research (2021) Reviewer of Information Systems International Conference (2021) Reviewer of the 13th International Conference on Information & Communication Technology and System (2021)

Name	Shintami Chusnul Hidayati, S.Kom., M.Sc., Ph.D.
Position	Lecturer
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2009. Master's degree (Science), National Taiwan University of Science and Technology, Taiwan, 2012. Doctoral degree (Computer Science and Information Engineering), National Taiwan University of Science and Technology, Taiwan, 2017.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the	 An AI-based Assessment Monitoring System, 2021. StyleMe: An AI Fashion Consultant for Personal Shopping and Style Advice, 2018.
last 5 years	
Industry collaborations	1. Microsoft Research Asia, 2018.
over the last 5 years	2. Samurai Spirit Inc., 2014 – 2017.

Patents and	None
proprietary rights	
Important	Journal Articles
publications over the last 5 years	 Shintami Chusnul Hidayati, Ting Wei Goh, Ji-Sheng Gary Chan, Cheng-Chun Hsu, John See, Lai-Kuan Wong, Kai-Lung Hua, Yu Tsao, and Wen-Huang Cheng, "Dress with Style: Learning Style from Joint Deep Embedding of Clothing Styles and Body Shapes," to appear in IEEE Transactions on Multimedia. (Impact Factor 2019: 6.051) Wen-Huang Cheng, Sijie Song, Chieh-Yun Chen, Shintami Chusnul Hidayati, and Jiaying Liu, "Fashion Meets Computer Vision: A Survey," to appear in ACM Computing Surveys. (Impact Factor 2019: 7.990)
	 Shintami Chusnul Hidayati, Chuang-Wen You, Wen-Huang Cheng, and Kai-Lung Hua, "Learning and Recognition of Clothing Genres from Full-body Images," IEEE Transactions on Cybernetics, vol. 48, no. 5, pp. 1647 - 1659, 2018. (Impact Factor 2018: 10.387) Kai-Lung Hua, Shintami Chusnul Hidayati, Fang-Lin He, Chia-Po Wei, and Yu-Chiang Frank Wang, "Context-Aware Joint Dictionary Learning for Color Image Demosaicking," Journal of Visual Communication and Image Representation, vol. 38, pp. 230-245, 2016. (Impact Factor 2016: 2.164)
	5. Jordi Sanchez-Riera, Kai-Lung Hua, Yuan-Sheng Hsiao, Tekoing Lim, Shintami Chusnul Hidayati, and Wen-Huang Cheng, "A Comparative Study of Data Fusion for RGB-D Based Visual Recognition," Pattern Recognition Letters, vol. 73, pp. 1 - 6, 2016. (Impact Factor 2016: 2.164)
	6. Tsung-Hung Tsai, Wei-Chih Jhou, Wen-Huang Cheng, Min-Chun Hu, I-Chao Shen, Tekoing Lim, Kai-Lung Hua, Ahmed Ghoneim, M. Anwar Hossain, and Shintami Chusnul Hidayati, "Photo sundial: Estimating the Time of Capture in Consumer Photos," Neurocomputing, vol. 177, pp. 529 - 542, 2016. (Impact Factor 2016: 3.317)
	Peer-Reviewed Conference Papers
	1. <u>Shintami Chusnul Hidayati</u> and Yeni Anistyasari, "Body Shape Calculator: Understanding the Type of Body Shapes from Anthropometric Measurements," in Proc. Int. Conf. Multimedia Retrieval, Taipei, Taiwan, Nov. 16 – 19, 2021.
	2. Ghali Marzani, Nanik Suciati, and Shintami Chusnul Hidayati, "Morphological Preprocessing for Low-Resolution Face Recognition using Common Space," in Proc. International Conference on ICT for Smart Society, Bandung, Indonesia, Aug. 2 – 4, 2021.
	3. Yeni Anistyasari, Ekohariadi Ekohariadi, IG P Asto Buditjahjanto, and Shintami Chusnul Hidayati, "Exploring the Psychometric Properties of Computational Thinking Assessment in Introductory Programming," in Proc. Int. e-Engineering Education Services Conference (e-
	 Engineering), Petra, Jordan, Jun. 22 – 23, 2021. 4. Firman Maulana, Hadziq Fabroyir, Darlis Herumurti, Imam Kuswardayan, and Shintami Chusnul Hidayati, "Real-time Landscape Generation in Games Using Parallel Procedural Content," in Proc. International Conference on Computer Engineering, Network, and Intelligent Multimedia, Surabaya, Indonesia, Nov. 17 – 18, 2020.
	5. Ganendra Afrasya Salsabilla, Hadziq Fabroyir, Darlis Herumurti, Imam Kuswardayan, and Shintami Chusnul Hidayati, "Tachyon: Multiplatform Rhythm Game with Automatic Beatmap Generation," in

- Proc. International Conference on Computer Engineering, Network, and Intelligent Multimedia, Surabaya, Indonesia, Nov. 17 – 18, 2020.
- Marde Fasma'ul Aza, Nanik Suciati, and Shintami Chusnul Hidayati, "Performance Study of Facial Expression Recognition Using Convolutional Neural Network," in Proc. International Conference on Science in Information Technology, Palu, Indonesia, Oct. 21 – 22,
- 7. Muhammad Auliaramadani, Nanik Suciati, and Shintami Chusnul Hidayati, Hadziq Fabroyir, Ridho Rahman Hariadi, "Augmented Reality for 3D House Design Visualization from Floorplan Image," in Proc. International Conference on Electrical Engineering and Informatics, Aceh, Indonesia, Oct. 27-28, 2020.
- 8. Shintami Chusnul Hidayati, Raden Bimo Rizki Prayogo, Satria Ade Veda Karuniawan, Mhd. Fadly Hasan, and Yeni Anistyasari, "What's in a Caption?: Leveraging Caption Pattern for Predicting the Popularity of Social Media Posts," in Proc. IEEE International Conference on Vocational Education and Electrical Engineering (IEEE ICVEE), Surabaya, Indonesia, Oct. 3 - 4, 2020.
- 9. Shintami Chusnul Hidayati, Kai-Lung Hua, Yu Tsao, Jiaying Liu, Hong-Han Shuai, and Wen-Huang Cheng, "Garment Detectives: Discovering Clothes and Its Genre in Consumer Photos," in Proc. IEEE International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR), San Jose, California, USA, Mar. 28 - 30, 2019.
- 10. Shintami Chusnul Hidayati, Cheng-Chun Hsu, Yu-Ting Chang, Kai-Lung Hua, Jianlong Fu, and Wen-Huang Cheng, "What dress fits me best? Fashion Recommendation on the Clothing Style for Personal Body Shape," in Proc. ACM International Conference on Multimedia (ACM MM), Seoul, Korea, Oct. 22 - 26, 2018.
- 11. Eric Massip, Shintami Chusnul Hidayati, Wen-Huang Cheng, and Kai-Lung Hua, "Exploiting Category-specific Information for Image Popularity Prediction in Social Media," in Proceedings of the IEEE International Conference on Multimedia and Expo (ICME) Workshops, San Diego, California, USA, Jul. 23 - 27, 2018.
- 12. Shintami Chusnul Hidayati, Yi-Ling Chen, Chao-Lung Yang, and Kai-Lung Hua, "Popularity Meter: An Influence- and Aesthetics-aware Social Media Popularity Predictor," in Proceedings of the ACM International Conference on Multimedia (ACM MM), Mountain View, California, USA, Oct. 23 - 27, 2017.
- 13. Zhao-Ming Liu, Yung-Yao Chen, Shintami Chusnul Hidayati, Shih-Che Chien, Feng-Chia Chang, and Kai-Lung Hua, "3D Model Retrieval Based on Deep Autoencoder Neural Networks," in Proceedings of the IEEE International Conference on Signals and Systems (ICSigSys), Bali, Indonesia, May 16 - 18, 2017.
- 14. Jordi Sanchez-Riera, Shintami Chusnul Hidayati, Kai-Lung Hua, Jen-Chieh Chiang, and Wen-Huang Cheng, "A Learning-based Tracking Algorithm for Hand Gesture," in Proceedings of the 29th IPPR Conference on Computer Vision, Graphics, and Image Processing (CVGIP), Keelung, Taiwan, Aug. 15 - 17, 2016.
- 15. Dang Duy Thang, Shintami Chusnul Hidayati, Yung-Yao Chen, Wen-Huang Cheng, Shih-Wei Sun, and Kai-Lung Hua, "A Spatialpyramid Scene Categorization Algorithm based on Locality-aware Sparse Coding," in Proceedings of the 2016 IEEE International Conference on Multimedia Big Data (BigMM), Taipei, Taiwan, Apr. 20 - 22, 2016.
- 16. Yu-Chen Chen, Shintami Chusnul Hidayati, Wen-Huang Cheng, Min-Chun Hu, and Kai-Lung Hua, "Locality Constrained Sparse Representation for Cat Recognition," in Proceedings of the 22nd

	International Conference on MultiMedia Modeling (MMM), Miami, USA, Jan. 4 - 6, 2016.
Activities in specialist bodies over the last 5 years	Taught Curses 2019 - Odd Semester: Artificial Intelligence, Computational Intelligence, Computer Graphics Exercise Semester: Deep Learning Artificial Intelligence Advanced
	- Even Semester: Deep Learning, Artificial Intelligence, Advanced Topics in Computer Graphics, Computational Intelligence, Data Structure
	 Odd Semester: Computer Graphics, Basic Programming, Data Structure Even Semester: Artificial Intelligence, Advanced Topics in Computer Graphics, Data Structure, Basic Algorithms and
	Programming Journal Activities
	Reviewer - IEEE Transactions on Multimedia - IEEE MultiMedia - IEEE Access - Machine Vision and Applications - Visual Computer - IEICE Transactions on Information and Systems - ITE Transactions on Media Technology and Applications - MDPI Applied Sciences - MDPI Electronics - MDPI Information - Journal of Physical Communication Editor-in-chief - Scientific Journal of Information Technology Conference Activities Organizer/Co-organizer
	 ACM Multimedia Grand Challenge on AI Meets Beauty: 2019, 2020 Chair/Co-chair IEEE Int. Conf. Multimedia and Expo: 2022 ACM Int. Conf. Multimedia Retrieval: 2021 ACM Multimedia Grand Challenge on AI Meets Beauty: 2018 IEEE Int. Conf. Visual Communications and Image Processing:
	 2018 Program committee member IEEE Int. Conf. Multimedia and Expo: 2018, 2019, 2020, 2021 Int. Conf. MultiMedia Modelling: 2020, 2021 IEEE Int. Conf. Image Processing: 2018, 2019, 2020, 2021 ACM Int. Conf. Multimedia Retrieval: 2021 IEEE Int. Workshop on Multimedia Signal Processing: 2019, 2020, 2021
	 Int. Conf. Information and Communication Technology and Systems: 2017, 2019, 2021 Int. Conf. Vocational Education and Electrical Engineering: 2020, 2021 ACM Int. Conf. Multimedia: 2018, 2019, 2020

- Int. Conf. Pattern Recognition: 2020

- IEEE Int. Symposium on Circuits and Systems: 2020
- IEEE Int. Conf. Visual Communication and Image Processing:
2018, 2019
- ACM Int. Conf. Multimedia in Asia: 2019
- Int. Symp. Intelligent Signal Processing and Communication
Systems: 2019

Area of Expertise: Intelligent Vision Computing

Name	Prof. Ir. Handayani Tjandrasa, M.Sc., Ph.D.		
Position	Professor		
Academic career	- Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 1975.		
	- Master's degree (Computer Science), University of Wisconsin – Madison 1978.		
	- Doctor's degree, University of Wisconsin, 1984.		
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and		
Zimprojiment	Informatics Technology, Institut Teknologi Sepuluh Nopember		
Research and development	Swing Trajectory Model for the New Design of Quadruped Robot using V-REP Simulator, 2020		
projects over the last 5 years	 Non-Proliferative Diabetic Retinopathy Classification Based on Hard Exudates Using Combination of FRCNN, Morphology, and ANFIS, 2020 		
	3. Improving Spectral Quality of IHS-Pansharpening Result by Integrating Equalization Process using SVE-DWT for Satellite Imagery Data, 2020		
	4. Classification of Tobacco Leaf Pests using VGG16 Transfer Learning, 219		
	5. Classification of Diabetic Retinopathy and Normal Retinal Images using CNN and SVM, 2019		
	6. Red Small Dot Segmentation for Early Warning of Diabetic Retinopathy, 2018		
	7. Exudate Segmentation in Retinal Images of Diabetic Retinopathy using Saliency Method based on Region, 2018		
	8. Classification of P300 Event-related Potentials using Wavelet Transform, MLP, and Soft Margin SVM, 2018		
	9. A Soft Weighted Median Filter for Removing General Purpose Image Noise,2017		
	10. Exudate Detection in Retinal Fundus Images using Combination of Mathematical Morphology and Renyi Entropy Thresholding, 2017		
	11. Classification of Alcoholic EEG using Wavelet Packet Decomposition, Principal Component Analysis, and Combination of Genetic Algorithm and Neural Network, 2017		
	12. Feature Extraction using Combination of Intrinsic Mode Functions and Power Spectrum for EEG Signal Classification, 2016		
	13. Feature Extraction using Statistical Moments of Wavelet Transform for Iris Recognition, 2016		
	14. Classification of EEG Signals using Common Spatial Pattern-principal Component Analysis and Interval Type-2 Fuzzy Logic System, 2016		
	15. Alcoholism Classification based on EEG Data using Independent Component Analysis (ICA), Wavelet De-noising and Probabilistic Neural Network (PNN), 2016		
	16. Classification of EEG Signals using Single Channel Independent Component Analysis, Power Spectrum, and Linear Discriminant Analysis, 2016		
	17. Identification of Oil Palm Plantations in IKONOS Images using Radially Averaged Power Spectrum Values, 2015		
Industry collaborations over the last 5 years	None		

Patents and	None
proprietary rights	
Important	1. Severity Classification of Non-Proliferative Diabetic Retinopathy
publications over	using Convolutional Support Vector Machine, 2020
the last 5 years	2. Identification of Acute Lymphoblastic Leukemia Subtypes in
	Touching Cells Based on Enhanced Edge Detection, 2020
	3. Combination of Aggregated Channel Features (ACF) Detector and
	Faster R-CNN to Improve Object Detection Performance in Fetal
	Ultrasound Images, 2018
	4. Robot Motion Control using the Emotiv EPOC EEG System, 2018
	5. Automatic Leukemia Cell Counting using Iterative Distance
	Transform for Convex Sets, 2018
	6. Text Mining for Pest and Disease Identification on Rice Farming with
	Interactive Text Messaging, 2018
	7. Hybrid Speckle Noise Reduction Method for Abdominal
	Circumference Segmentation of Fetal Ultrasound Images, 2018
	8. Detection of Facial Expressions Using the Gabor and Haar Wavelet
	Features, 2018
	9. Classification of P300 in EEG Signals for Disabled Subjects using
	9. Classification of P300 in EEG Signals for Disabled Subjects using Singular Spectrum Analysis, 2017
	10. Urban Road Materials Identification using Narrow Near Infrared
	Vision System, 2017
	11. New Lossless Compression Method using Cyclic Reversible Low
	Contrast Mapping (CRLCM), 2016
	12. Glaucoma Detection in Fundus Retina Image using Adaptive
	Thresholding and Support Vector Machine, 2016
	13. Lossless Image Compression Method using Reversible Low Contrast
	Mapping (RLCM), 2016
	14. Classification of Mental Activities based on EEG Data using Hybrid
	Neural Network and Fuzzy Particle Swarm Optimization Methods
	with Crossmutated Operation, 2016
	15. Image Orientation Improvement based on Human Presence using
	Gradient and Haar-like Features, 2015
	16. Image Orientation Automatically based on the Presence of a Face
	using the HAAR-LIKE feature, 2015
	17. Nucleus and Cytoplasm Segmentation on Cervical Smear Image using
	a Combination of Fuzzy C-Means Clustering and Radiating Gradient
	Vector Flow Snake Methods, 2015
	18. Classification of Non-Proliferative Diabetic Retinopathy based on
	Segmented Exudates using K-Means Clustering, 2015
Activities in	2015
specialist bodies	- Odd Semester: Computational Intelligence, Research Methodology
over the last 5	and Philosophy of Science, Dissertation - Research 1, Dissertation -
years	Research 2, Dissertation - Research 3, Seminar 1.
	2016
	- Odd Semester: Computational Intelligence, Research Methodology
	and Philosophy of Science, Seminar 1.
	- Even Semester: Digital Image Processing, Topics in Digital Image
	Processing, Seminar 2.
	2017
	2017
	- Odd Semester: Computational Intelligence, Research Methodology
	and Philosophy of Science

	- Even Semester: Artificial Intelligence, Digital Image Processing, Topics in Digital Image Processing, Research Methodology.
20	 Odd Research Methodology and Philosophy of Science, Seminar 1, Computational Intelligence. Even Semester: Digital Image Processing, Topics in Digital Image Processing, Seminar 2.
20	 Odd Semester: Computational Intelligence, Research Methodology and Philosophy of Science. Even Semester: Topics in Digital Image Processing, Digital Image Processing, Artificial Intelligence.
20	 Odd Semester: Biomedical Computing, Computational Intelligence, Research Methodology and Philosophy of Science, Seminar 1.

Name	Prof. Dr. Agus Zainal Arifin, S.Kom., M.Kom.		
Position	Professor		
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, 1995. Master's degree (Computer Science), Universitas Indonesia 2001. Doctoral degree, Hiroshima University, 2007. 		
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember		
Research and development projects over the last 5 years	 Image Classification Performance Evaluation for 3D Model Reconstruction, 2020 Line Operator as a CNN-Based Preprocessing Method for Osteoporosis Detection in Panoramic Dental Radiographs, 2020 Converting Images into Base Relief Using Image Processing Techniques, 2019 Tooth Segmentation Using Gamma Adjustment and Transition Region Filter Based on Wavelet Method, 2019 Age Estimation System Using Deep Residual Network Classification Method, 2019 Enhanced Topic Modeling using Dictionary for Questions and Answers, 2019 Adaptive Edge-Based Image Contrast Enhancement using Multi Sub-Histogram Analysis, 2019 3D Region Merge for Tooth Segmentation in Cone-Beam Computed Tomography Images, 2018 Hierarchical Clustering Linkage for Merging Regions in Interactive Image Segmentation on Computed Tomography Dental Cone Beam, 2018 Branching Detection in Trabecular Bones Using Multiscale COSFIRE Filters for Osteoporosis Identification, 2018 Automatic Comparison of Products based on Opinion Features using Synonym Equations and Jaccard, 2018 Gaussian Kernel Based Conditional Spatial FCM Interactive Segmentation for Panoramic Radiography, 2018 Generating automatic markers based on composite directional images from frequency domains for dental panoramic radiographic 		

	 segmentation, 2017 Rainfall Forecasting using Autoregressive Integrated Moving Average, Single Input and Multi Input Transfer Function, 2017 Combining Spatial Information and Line Features in an Adaptive Classifier for Trabecular Bone Segmentation, 2017 Co-occurrence Techniques and Dictionary-Based Methods for Indonesian Thesaurus Construction, 2017 Computer-assisted System for Osteoporosis Assessment using Mandibular Cortical Width Measurements on Dental Panoramic Radiographs, 2017 Feature Extraction using Wavelet Transform Statistical Moments for Iris Recognition, 2016 Improvement of Low-Quality Microscopic Images of Thick Blood Smears of Malaria Patients using Contrast and Edge Correction, 2016 Phrase Suffix Tree Efficiency with Single Pass Clustering for Indonesian Web Document Grouping, 2016 Measurement of Cortical Bone Thickness in Dental Panoramic Images based on Polynomial Curve, 2016 Tooth Segmentation in Dental Panoramic Radiography using Decimation-free Directional Filter Bank Thresholding and Multistage Adaptive Thresholding, 2015 Classification of Tuna using Decision Tree Algorithms and Image Processing Methods, 2015 Image Thresholding based on Obscurity Index and Fuzzy Similarity Measure, 2015 Non-Linear Spatial-Temporal Input Selection for Rainfall Forecasting Using Repetitive Neural Networks, 2018 Feature Extraction based on Shape Descriptors and Copy Points for Tuna Image Classification, 2016 Arabic Document Ranking using Latent Semantic Indexing, 2015
	28. Optimization of Weighting on Query Expansion with Term Relatedness to Query-Entropy based (TRQE), 2015
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 Multitask learning with general vector space for cross-lingual semantic relation detection, 2020 Tweet Classification using Deep Learning Architecture for Concert Event Detection, 2020 Automatic Segmentation of Dental Cone Beam Computed Tomography Image Based on Level Set Method Using Morphology Operators and Polynomial Fitting, 2020 Separation of Overlapping Object Segmentation using Level Set with Automatic Initialization on Dental Panoramic Radiograph, 2020 Enhancement of Low-Quality Blood Smear Image using Contrast and Edge Corrections, 2020 Semantic Relation Detection based on Multi-task Learning and Cross-Lingual-View Embedding, 2020 Multi-projection Deep Learning Network for Segmentation of 3D Medical Images, 2019 A Robust Segmentation for Malaria Parasite Detection of Thick Blood Smear Microscopic Images, 2019

- Automatic Segmentation of Mandibular Cortical Bone on Cone-Beam CT Images Based on Histogram Thresholding and Polynomial Fitting, 2019
- 10. Deteksi Bot Spammer Twitter Berbasis Time Interval Entropy dan Global Vectors for Word Representations Tweets Hashtag, 2019
- 11. Segmenting Tooth Components in Dental X-Ray Images using Gaussian Kernel-Based Conditional Spatial Fuzzy C-Means Clustering Algorithm, 2019
- 12. Correlation and Symmetrical Uncertainty-based Feature Selection for Multivariate Time Series Classification, 2019
- 13. Detection of Overlapping Teeth on Dental Panoramic Radiograph, 2019
- 14. Automatic image slice marking propagation on segmentation of dental CBCT, 2019
- 15. Query Expansion Based on Wikipedia Word Embedding and BabelNet Method for Searching Arabic Documents, 2019
- 16. Query Expansion menggunakan Word Embedding dan Pseudo Relevance Feedback, 2019
- 17. Performance Analysis of Specification Computer and Mobile with Implementation Tawaf Virtual Reality using A* Algorithm and RVO System, 2019
- 18. Iterated Region for Interactive Image Segmentation on Dental Panoramic Radiograph, 2019
- 19. Autonomy Stemmer Algorithm for Legal and Illegal Affix Detection use Finite-State Automata Method, 2019
- 20. Ambiguitas Machine Translation pada Cross Language Chatbot Bea Cukai, 2019
- 21. Incorporating index of fuzziness and adaptive thresholding for image segmentation, 2018
- 22. Segmentation of Malaria Parasite Candidate from Thickblood Smear Microscopic Images using Watershed and Adaptive Thresholding, 2018
- 23. Sentence Extraction based on Sentence Distribution and Part of Speech Tagging for Multi-document Summarization, 2018
- 24. Automatic Determination of Seeds for Random Walker by Seeded Watershed Transform for Tuna Image Segmentation, 2018
- 25. A Flexible Sub-Block in Region based Image Retrieval based on Transition Region, 2018
- 26. Inter and Intra Cluster on Self-Adaptive Differential Evolution for Multi-Document Summarization, 2018
- 27. Image Thresholding based on Hierarchical Clustering Analysis and Percentile Method for Tuna Image Segmentation, 2018
- 28. Indonesian News Classification using Naive Bayes and Two-Phase Feature Selection Model, 2017
- 29. Arabic Book Retrieval using Class and Book Index-Based Term Weighting, 2017
- 30. Region Merging Strategy using Statistical Analysis for Interactive Image Segmentation on Dental Panoramic Radiographs, 2017
- 31. Fuzzy Region Merging using Fuzzy Similarity Measurement on Image Segmentation, 2017
- 32. Least Squares Support Vector Machines Parameter Optimization based on Improved Ant Colony Algorithm for Hepatitis Diagnosis, 2017
- 33. RBF Kernel Optimization Method with Particle Swarm Optimization on SVM using the Analysis of Input Datas Movement, 2017
- 34. Trabecular Bone Segmentation based on Segment Profile

Characteristics Using Extreme Learning Machine on Dental Panoramic Radiographs, 2017 35. Term Weighting Based on Positive Impact Factor Query for Arabic Figh Document Ranking, 2017 36. Analysis of Adaptif Local Region Implementation on Local Thresholding Method, 2017 37. Improving Multi-document Summary Method based on Sentence Distribution, 2016 38. Extracted Pixels Similarity Features (EPSF) using Interactive Image Segmentation Techniques, 2016 39. Web News Documents Clustering in Indonesian Language Using Singular Value Decomposition-principal Component Analysis (Svdpca) and Ant Algorithms, 2016 40. Region Based Image Retrieval Using Ratio of Proportional Overlapping Object, 2016 41. The Development of Osteoporosis Detective Analysis Method in Trabecular Condylus of Menopause Women using Panoramic Radiograph, 2016 42. Indonesian News Classification using Naive Bayes and Two-Phase Feature Selection Model, 2016 43. Query Region Determination based on Region Importance Index and Relative Position for Region-based Image Retrieval, 2016 44. Coverage, Diversity, and Coherence Optimization for Multi-Document Summarization, 2015 45. Preference Based Term Weighting for Arabic Figh Document Ranking, 2015 46. A Novel Strategy of Differential Evolution Algorithms Crossover Operator Based on Gray level Clusters Similarity for Automatic Multilevel Image Thresholding, 2015 Activities in 2015 specialist bodies Odd Semester: Topics in Data Mining, Seminar 1, Information Retrieval Systems, Topics in Information Retrieval Systems, Topics over the last 5 in Data Mining. years 2016 - Odd Semester: Seminar 1, Topics in Information Retrieval Systems, Information Retrieval Systems. - Events: Data Mining, Topics in Computer Vision, Seminar 2, Dissertation Writing. 2017 Odd Semester: Topics in Information Retrieval Systems, Information Retrieval Systems. Even Semester: Social Media Analysis, Topics in Computer Vision. 2018 Odd Semester: Topics in Information Retrieval Systems, Seminar 1, Information Retrieval Systems. Even Semester: Topics in Computer Vision, Social Network Analysis, Seminar 2. 2019 Odd Semester: Professional Communication, Information Retrieval

Systems, Topics in Information Retrieval Systems.

-	Even Semester:	Seminar 2	, Dissertation	Writing,	Research
	Methodology, Dat	a Mining.			
2020					
-	Odd Semester: Pr	rofessional Co	ommunication, I	nformation	Retrieval
	Systems, Topics in	n Information	Retrieval System	ns, Semina	r 1, Topics
	in Data Mining.		•		•

Name	Dr. Eng. Chastine Fatichah, S.Kom., M.Kom.		
Position	Associate Professor, Head of Department		
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2000. Master's degree (Computer Science), Universitas Indonesia 2008. Doctoral degree, (Computational Intelligence & Systems Science), Tokyo Institute of Technology, 2012. 		
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember		
Research and development projects over the last 5 years	 2020 – 2021: Principal Investigator, Research project: Fast Deep Learning Segmentation of Brain Tumour 3D MRI Image and Prediction of Patient Survival 2020 – 2021: Principal Investigator, Research project: Method for Gender Identification and Grouping of Human Ages from Ramus Mandibula Panoramic Radiography 2019 – 2021: Co-Principal Investigator, Research project: Development of Accurate 3D Additive Manufacturing Generator Based on Medical Imagery for Head Skull Surgery Planning and Facial Bone Reconstruction 2020: Principal Investigator, Development of Method for Automated Assessment of Indonesian Essay Answering with Deep Neural Network Transfer Learning Approach 2020: Co-Principal Investigator, Research project: Vehicle Number Plates Recognition based on CCTV Video Data for Development of Smart Gate Parking System 2018–2020: Principal Investigator, Research project: Event detection in urban city by crowdsourcing based spatial and temporal information using deep learning method 2018–2020: Co-Principal Investigator, Research project: Development of Electronic-Nose for Beef Quality Detection 2017–2019: Co-Principal Investigator, Research project: Information retrieval system for Arabic documents 2017–2018: Co-Principal Investigator, Research project: Face recognition based on Video data for surveillance system 2014 – 2016: Principal Investigator, Research project: CellMorph: Computer Aided for Morphological Cell Analysis on Microscopic Image for Cell Cancer Detection 2014–2016: Principal Investigator, Research project: Multi Document Summarization of Indonesian News Based on Trending Issue Data Twitter with Trivial Event Detection as Keywords 2014–2015: Consultant, International Partnership Research Project: An Exigent Redesign of Electronic Biomedical Management Kits for Enhanced Reliability in managing intractable diseases (Asthma, Diabetes, and Epilepsy)		
Industry collaborations over the last 5 years	None		

Systems, Vol. 13, No. 5, pp. 317-326, 2020.

13. Khairiyah Nur Aisyah, Chastine Fatichah, Riyanarto Sarno,

- "Multilevel thresholding and Morphological Relationship Approach for Automatic Detection of Anterior and Posterior Commissure in Midsagittal Brain MRI," International Journal of Intelligent Engineering and Systems, Vol. 13, No. 5, pp. 368-378, 2020.
- 14. Rizka Wakhidatus Sholikah, Agus Zainal Arifin, **Chastine Fatichah**, Ayu Purwarianti, "Semantic Relation Detection based on Multi-task Learning and Cross-Lingual-View Embedding," International Journal of Intelligent Engineering and Systems, Vo. 13, No. 3, 2020.
- 15. Agung Wiratmo, **Chastine Fatichah**, "Indonesian Short Essay Scoring Using Transfer Learning Dependency Tree LSTM," International Journal of Intelligent Engineering and Systems, Vo. 13, No. 2, 2020.
- 16. Fika Hastarita Rahman, Riyanarto Sarno, **Chastine Fatichah**, "Hybrid Approach of Structural Lyric and Audio Segments for Detecting Song Emotion," International Journal of Intelligent Engineering and Systems, Vo. 13, No. 1, 2020.
- 17. Bagus Setya Rintyarna, Riyanarto Sarno, **Chastine Fatichah**, "Enhancing the performance of sentiment analysis task on product reviews by handling both local and global context," International Journal of Information and Decision Sciences, Inderscience, Vol. 12, No. 1, 2020.
- 18. Bagus Setya Rintyarna, Riyanarto Sarno, **Chastine Fatichah**, "Evaluating the performance of sentence level features and domain sensitive features of product reviews on supervised sentiment analysis tasks," Journal of Big Data, Springer, Vo. 6, No. 1, 2019.
- 19. Tora Fahrudin, Joko Lianto Buliali, **Chastine Fatichah**, "Ina-BWR: Indonesian bigram word rule for multi-label student complaints," Egyptian Informatics Journal, Elsevier, Vol. 20, No. 3, pp. 151-161, November 2019.
- 20. Ahmad Saikhu, Agus Zainal Arifin, **Chastine Fatichah**, "Correlation and Symmetrical Uncertainty-Based Feature Selection for Multivariate Time Series Classification," International Journal of Intelligent Engineering and Systems, Vo. 12, No. 3, June 2019.
- 21. Tora Fahrudin, Joko Lianto Buliali, *Chastine Fatichah*, "Enhancing the Performance of Smote Algorithm by Using Attribute Weighting Scheme and New Selective Sampling Method for Imbalanced Data Set," International Journal of Innovative Computing Information and Control, Vol. 15, No. 2, pp. 423-444, 2019.
- 22. Bilqis Amaliah, **Chastine Fatichah**, Erma Suryani, "Total opportunity cost matrix Minimal total: A new approach to determine initial basic feasible solution of a transportation problem," Egyptian Informatics Journal, Elsevier, Vol. 20, No.2, pp. 131-141, 2019.
- 23. Bagus Setya Rintyarna, Riyanarto Sarno, **Chastine Fatichah**, "Enhancing the performance of sentiment analysis task on product reviews by handling both local and global context," International Journal of Information and Decision Sciences, Inderscience, 2019.
- 24. Bagus Setya Rintyarna, Riyanarto Sarno, **Chastine Fatichah**, Semantic Features for Optimizing Supervised Approach of Sentiment Analysis on Product Reviews, Computers 8 (3), MDPI, 2019.
- 25. Fika Hastarita Rahman, Riyanarto Sarno, **Chastine Fatichah**, "Music Emotion Classification based on Lyrics-Audio using Corpus Based Emotion," International Journal of Electrical and Computer Engineering, Vol. 8, No. 3, June, 2018.
- 26. Nenden Siti Fatonah, Handyani Tjandrasa, **Chastine Fatichah**, "Automatic Leukemia Cell Counting using Iterative Distance Transform for Convex Sets," *International Journal of Electrical and Computer Engineering, Vol. 8, No. 3, June, 2018.*

- 27. Abdullah M. Iliyasu, *Chastine Fatichah*, "A Quantum Hybrid PSO Combined with Fuzzy k-NN Approach to Feature Selection and Cell Classification in Cervical Cancer Detection", Sensors, 17, 2935, 2017.
- 28. Joko Lianto B, **Chastine Fatichah** "Vehicle Detection on Images from Satellite using Oriented Fast and Rotated Brief", Journal of Engineering and Applied Sciences, Vol. 12, No. 17, pp. 4500-4503, 2017.
- 29. Hardika Khusnuliawati, **Chastine Fatichah,** Rully Soelaiman, "Multifeature Fusion Using SIFT and LEBP for Finger Vein Recognition", Telecommunication Computing Electronics and Control, Vol. 15, No. 1, 2017
- 30. Tora Fahrudin, Joko Lianto Buliali, **Chastine Fatichah**, "RANDSHUFF: An Algorithm to Handle Imbalance Class for Qualitative Data," International Review on Computers and Software (IRECOS), Vol. 11, No. 12, pp. 1093-1104, 2016.
- 31. Abdullah M. Iliyasu, **Chastine Fatichah**, Khaled A. Abuhasel, "Evidence Accumulation Clustering with Possibilitic Fuzzy C-Means base clustering approach to disease diagnosis," Automatika Journal for Control, Measurement, Electronics, Computing and Communications, Vol. 57, No. 3, pp. 822-835, 2016.
- 32. Chastine Fatichah, Joko Lianto, Ahmad Saikhu, "A Hybrid Fuzzy Morphology and Connected Components Labeling Methods for Vehicle Detection and Counting System," International Journal on Smart Sensing and Intelligent Systems, Vol. 9, No. 2, pp. 765-779, June 2016.
- 33. Abdullah M. Iliyasu, **Chastine Fatichah**, A Bi-Stage Technique for Segmenting Cervical Smear Images Using Possibilistic Fuzzy C-Means and Mathematical Morphology, Journal of Medical Imaging and Health Informatics, Vol. 6, No. 7, pp. 1663-1669, 2016.
- 34. Chastine Fatichah, Martin L. Tangel, Fei Yan, Janet P Betancourt, M. Rahmat Widyanto, Fangyan Dong, Kaoru Hirota, "Fuzzy feature representation for white blood cell differential counting in acute leukemia diagnosis," International Journal of Control, Automation and Systems, Springer Vol. 13, No. 3, pp.742-752, 2015.
- 35. Khaled A. Abuhasel, Abdullah M. Iliyasu, **Chastine Fatichah**, "A combined AdaBoost and NEWFM technique for medical data classification", Information Science and Applications, Lecture Notes in Electrical Engineering, Springer, Vol. 339, pp. 801-809, 2015.
- 36. Khaled A. Abuhasel, Abdullah M. Iliyasu, **Chastine Fatichah**, "A Hybrid Particle Swarm Optimization and Neural Network with Fuzzy Membership Function Technique for Epileptic Seizure Classification," Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII), Vol. 19, No. 3, pp. 447-455, 2015.

Activities in specialist bodies over the last 5 years

TAUGHT COURSES:

2015

- Odd Semester: Computational Intelligence

2016

- Odd Semester: Computational Intelligence
- Even Semester: Artificial Intelligence, Analysis Social Media, Advanced Topics in Computer Vision.

2017

- Odd Semester: Advanced Topics in Data Mining, Seminar 1, Biomedical Computing, Computational Intelligence.
- Even Semester: Seminar 2, Artificial Intelligence, Data Mining

 Odd Semester: Advanced Topics in Data Mining, Computational Intelligence, Biomedical Computing, Computational Intelligence Even Semester: Deep Learning, Data Mining, Seminar 2, Artificial Intelligence
 Odd Semester: Advanced Topics in Data Mining, Seminar 1, Biomedical Computing Even Semester: Seminar 2, Deep Learning, Computational Intelligence, Artificial Intelligence
 Odd Semester: Computational Intelligence, Artificial Intelligence Even Semester: Artificial Intelligence, Deep Learning
REVIEWER OF INTERNATIONAL JOURNALS:
 IEEE Access, 2019-2021 Journal of Biomedical Signal Processing and Control, Elsevier, 2016-2021 Journal of King Saud University - Computer and Information Sciences, Elsevier, 2019-2021 IEEE Transactions on Neural Networks and Learning Systems, 2019-2020 IEEE Transactions on Industrial Informatics, 2018-2020 MethodsX, Elsevier, 2020 Computers in Biology and Medicine, Elsevier, 2017-2019 Journal of E-Biomedicine, Elsevier, 2016 Journal of Applied Computing and Informatics, Elsevier, 2015 International Journal of Advancements in Computing Technology, Korea, 2015
 Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII), Fujipress, Japan, 2014-2015

Name	Dr. Eng. Nanik Suciati, S.Kom., M.Kom.	
Position	Associate Professor	
Academic career	 Bachelor's degree (Computer Engineering), Institut Teknologi Sepuluh Nopember, 1994. Master's degree (Computer Science), Universitas Indonesia, 1998. Doctoral degree (Information Engineering), Hiroshima University, 2010. 	
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and	
	Informatics Technology, Institut Teknologi Sepuluh Nopember	
Research and development projects over the last 5 years	 2021 – 2021: Principal Investigator, Research project: Development of an Integrated Application for Face Recognition, Temperature Measurement and Mask Wear Detection Using Deep Learning 2021 – 2022: Principal Investigator, Research project: Preservation and Retrieval of Balinese Carvings Based on Relation of Motifs and Deep Learning 2021 – 2022: Principal Investigator, Research project: Balinese Script Translator in Ancient Lontar Manuscripts Based on Character Pair Rules and Deep Learning 2021 – 2022: Principal Investigator, Research project: Deep Learning for Detecting Fish's Species and Freshness 	

Industry collaborations over the last 5 years Patents and	 2020 – 2021: Principal Investigator, Research project: Reconstruction of Three-Dimensional Objects from Two-Dimensional Image Data Based-on Learning 2020 – 2020: Principal Investigator, Research project: Measurement of student enthusiasm in lectures using the results of facial expression recognition in a video-based lecture monitoring system 2019 – 2019: Principal Investigator, Research project: Development of Character Recognition System for Handwritten Document Image 2019 – 2019: Principal Investigator, Research project: Traditional Fabric Image Recognition Through Smartphone Cameras Using Features Invariant to Rotation, Scale, and Exposure 2019 – 2019: Principal Investigator, Research project: Development of 3D Learning Tools for Blind Students at SMPLB YPAB Surabaya 2018 – 2018: Principal Investigator, Research project: Development of Photo Data Conversion Applications to 3D Sculptures for Object Recognition for Blind People 2018 – 2018: Principal Investigator, Research project: Face Recognition on Video Data for Room Surveillance 2017 – 2017: Principal Investigator, Research project: Deep Learning for Retrieval of Large Amounts of Image Data 2016 – 2016: Principal Investigator, Research project: Exploration of Texture Features of Iris Image Using Wavelet Transform for Personal Identification 2015 – 2016: Principal Investigator, Research project: Application Development for Classification of Indonesian Traditional Fabric Motifs None Incident Report: Application of Incident Detection in Urban through Crowdsourcing Social Media Data, EC00201991701, 20 December
proprietary rights	2019
	2. Hybrid Program ANFIS-PSOGA, EC00202134367, 22 Juli 2021
Important publications over the last 5 years	 Hybrid Program ANFIS-PSOGA, EC00202134367, 22 Juli 2021 Anny Yuniarti, Agus Zainal Arifin, Nanik Suciati, A 3D template-based point generation network for 3D reconstruction from single images, Applied Soft Computing, vol. 111, pp. 1-9, 2021. Eko Prasetyo, Nanik Suciati, Chastine Fatichah, Multi-Level Residual Network VGGNet for Fish Species Classification, Journal of King Saud University-Computer and Information Sciences, 2021. Ni Putu Sutramiani, Nanik Suciati, Daniel Oranova Siahaan, MATAGCA: Multi Augmentation Technique on small dataset for Balinese character recognition using Convolutional Neural Network, ICT Express, 2021. Chastine Fatichah, Wildan F. Lazuardi, Dini A. Navastara, Nanik Suciati, Abdul Munif, "A Content Filtering from Spam Posts on Social Media using Weighted Multimodal Approach," Journal of Computer Science, 17(1), pp. 55–66, 2021. Fajar Astuti Hermawati, Handayani Tjandrasa, Nanik Suciati, Phasebased thresholding schemes for segmentation of fetal thigh cross-sectional region in ultrasound images, Journal of King Saud University-Computer and Information Sciences, 2021. Novrindah Alvi Hasanah, Nanik Suciati, Diana Purwitasari, Identifying Degree-of-Concern on COVID-19 topics with text classification of Twitters, Register, Vol. 7, No. 1, pp. 50-62, 2021. Avin Maulana, Chastine Fatichah, Nanik Suciati, "Facial Inpainting Using Generative Adversarial Network with Feature Reconstruction and Landmark Loss to Preserve Spatial Consistency in Unaligned Face

- Images," International Journal of Intelligent Engineering and Systems, Vol. 13, No. 6, pp. 218-228, 2020.
- 8. Ahmad Afiif Naufal, Chastine Fatichah, Nanik Suciati, "Preprocessed Mask RCNN for Parking Space Detection in Smart Parking Systems," International Journal of Intelligent Engineering and Systems, Vol. 13, No. 6, pp. 255-265, 2020.
- 9. Ricky Eka Putra, Handayani Tjandrasa, Nanik Suciati, Severity classification of non-proliferative diabetic retinopathy using convolutional support vector machine, International Journal of Intelligent Engineering and Systems, Vol. 13, No. 4, pp. 156-170, 2020.
- 10. Nuning Septiana, Nanik Suciati, Combination of fast hybrid classification and k value optimization in k-nn for video face recognition, Register, Vol. 1, No. 6, pp. 65-73, 2020.
- 11. Ahmad Wahyu Rosyadi, Nanik Suciati, Image segmentation using transition region and k-means clustering, IAENG International Journal of Computer Science, Vol. 47, No. 1, pp. 47-55, 2020
- 12. I Wayan Agus Surya Darma, Nanik Suciati, Daniel Siahaan, Neural Style Transfer and Geometric Transformations for Data Augmentation on Balinese Carving Recognition using MobileNet, International Journal of Intelligent Engineering and Systems, Vol. 13, No. 6, pp. 349-363, 2020.
- 13. Eko Prasetyo, Raden Dimas Adityo, Nanik Suciati, Chastine Fatichah, Partial Centroid Contour Distance (PCCD) in Mango Leaf Classification, International Journal on Advanced Science, Engineering and Information Technology, Vol. 10, No. 5, pp. 2020.
- 14. W Nurul Khotimah, Tiara Anggita, Nanik Suciati, "Indonesian sign language recognition using kinect and dynamic time warping, Indonesian Journal of Electrical Engineering and Computer Science, Vo. 15, No. 1, pp. 495-503, 2019.
- 15. Rarasmaya Indraswari, Takio Kurita, Agus Zainal Arifin, Nanik Suciati, Eha Renwi Astuti, "Multi-projection deep learning network for segmentation of 3D medical images," Pattern Recognition Letters, Vo. 125, pp.791-797, 2019.
- 16. Rarasmaya Indraswari, Agus Zainal Arifin, Nanik Suciati, Eha Renwi Astuti, Takio Kurita, Automatic segmentation of mandibular cortical bone on cone-beam CT images based on histogram thresholding and polynomial fitting, International Journal of Intelligent Engineering and Systems, Vol. 12, No. 4, 2019.
- 17. Eko Prasetyo, R Dimas Adityo, Nanik Suciati, Chastine Fatichah, Multi-class K-support vector nearest neighbor for mango leaf classification, Telkomnika, Vol. 16, No. 4, 2019.
- 18. Fajar Astuti Hermawati, Handayani Tjandrasa, Nanik Suciati, Hybrid Speckle Noise Reduction Method for Abdominal Circumference Segmentation of Fetal Ultrasound Images, International Journal of Electrical & Computer Engineering, Vol. 8, No. 3, 2018.
- 19. Agus Eko Minarno, Ayu Septya Maulani, Arrie Kurniawardhani, Fitri Bimantoro, Nanik Suciati, Comparison of Methods for Batik Classification using Multi Texton Histogram, Telkomnika, Vol. 16, No. 63, 2018.
- 20. Fajar Astuti Hermawati, Handayani Tjandrasa, Nanik Suciati, Combination of aggregated channel features (ACF) detector and faster R-CNN to improve object detection performance in fetal ultrasound images, International Journal of Intelligent Engineering and Systems, Vo. 11, No. 6, June 2018.

	Staff Handbook 6
Activities in	TEACHING
specialist bodies over the last 5	2015
years	 Odd Semester: Topic in Human Computer Interaction, Computer Vision, Computer Graphics Even Semester: Topic in Computer Graphics, Artificial Intelligence.
	 Odd Semester: Computer Vision, Computer Graphics, Computational Intelligence, Topic in Human Computer Interaction. Even Semester: Topic in Computer Graphics, Topic in Digital Image Processing, 3D Modelling and Computer Animation, Artificial Intelligence.
	 Odd Semester: Computer Vision, Computer Graphics, Computational Intelligence, Topic in Human Computer Interaction. Even Semester: Topic in Computer Graphics, 3D Modelling and Computer Animation, Artificial Intelligence.
	 Odd Semester: Computer Vision, Computer Graphics, Computational Intelligence. Even Semester: Topic in Computer Graphics, 3D Modelling and Computer Animation, Topic in Computer Vision, Artificial Intelligence.
	 2019 Odd Semester: Computer Vision, Seminar 1, Computational Intelligence. Even Semester: Seminar 2, 3D Modelling and Computer Animation, Topic in Computer Vision, Artificial Intelligence.
	 2020 Odd Semester: Computer Vision, Computational Intelligence, Computer Vision, Artificial Intelligence. Even Semester: Computational Intelligence, Topic in Computer Vision, Artificial Intelligence, Seminar 2.
	REVIEWER OF INTERNATIONAL JOURNALS:
	 Journal of King Saud University - Computer and Information Sciences, Elsevier, 2020-2021 Computer and Electronics in Agriculture, 2020

Name	Dini Adni Navastara, S.Kom., M.Sc.	
Position	Assistant Professor	
Academic career	- Bachelor's degree (Informatics), Institut Teknologi Sepuluh Nopember, 2008.	
	- Master's degree (Computer Engineering), Pusan National University, 2014.	
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and	
	Informatics Technology, Institut Teknologi Sepuluh Nopember (ITS)	
Research and	1. 2021 - 2021: Research member, Research project: Development of	
development	iAssesment: Intelligent Application Based on Fuzzy Rule-Based	

uusisete saaa	Alexandra for Student Committee of Accomment and Effectiveness
projects over	Algorithm for Student Competency Assessment and Effectiveness
the last 5 years	Measurement in Distance Learning
	2. 2021 – 2021: Research member, Research project: Development of an
	Audio-Video Based Assessment Monitoring System (iProctor) using
	Artificial Intelligence
	3. 2021 – 2021: Research member, Research project: Development of
	COVID-19 Detection based on Medical Image using Deep Learning
	Method, 2021
	4. 2021 – 2021: Principal Investigator, Research project: Social Distancing
	Monitoring using Deep Learning Method on CCTV Video
	5. 2020 – 2020: Principal Investigator, Research project: Vehicle License
	Plate Recognition on CCTV Video for Developing Smart Gate Parking
	System in Informatics ITS
	6. 2020 – 2020: Research member, Research project: Measurement of student
	enthusiasm in lectures using the results of facial expression recognition in
	a video-based lecture monitoring system
	7. 2019 – 2019: Principal Investigator, Research project: Development of
	Scientific Publication Data Framework for Citation Recommendations
	Based on Research Topics
	8. 2018-2019: Research member, Research project: Measurement System of
	Bone Quality based on Dental Cone Beam Computerized Tomography
	Image
	9. 2018 – 2018: Principal Investigator, Research project: Combination of
	Histogram of Oriented Gradients and Local Binary Patterns Features for
	Classification of Vehicle Types
	10. 2017 – 2017: Principal Investigator, Research project: Clustering of
	Research Topic Trends to Recommend Procurement of Library Materials
	in ITS
	11. 2017 – 2017: Principal Investigator, Research project: Combination of
	Spatial Information and Line Features in Adaptive Classifier for
	Trabecular Bone Segmentation on Dental Panoramic Radiograph
	12. 2016 – 2016: Principal Investigator, Research project: Medical Data
	Classification System Using Multilayer Perceptron Backpropagation
Y 1	Network Algorithm and Fuzzy Set Theory
Industry	1. Developing Skill Passport Application, Direktorat Kemitraan dan
collaborations over the last 5 years	Penyelarasan Dunia Usaha dan Dunia Industri, General Directorate of
over the last 3 years	Vocational Education, Ministry of Education and Culture, Indonesia, 2020 2. Developing Single Sign-On and Security Management Application, PEM
	2. Developing Single Sign-On and Security Management Application, PEM Akamigas, Indonesia, 2020
	3. Developing an Academic, Lecturer Data, and Office Application, PEM
	Akamigas, Indonesia, 2021
	4. Developing Single Sign-On Application, Data and Information Center,
	Ministry of Social Affairs, Indonesia, 2021
	5. Developing Research and Community Services Application, Musamus
	University, Indonesia, 2021
	6. Developing Human Resource Integrated System (HRIS), PT. Badak NGL,
	Bontang, Indonesia, 2018
	7. Developing e-Contract System, PT. Badak NGL, Bontang, Indonesia, 2017
Patents and	1. myITS Security Management Application: Application of controlling and
proprietary rights	managing users and all applications in ITS, EC00202047053, 18 September
	2020
	2. ItsBehavex-Collab Application: Deep-learning based application to help
	researchers in finding collaborators with similar topic interests,
	EC00202120797, 5 April 2021

	3. myITS Webinar Booking Web-Based Application, EC00202121132, 23
	April 2021
Important	1. D.A. Nirmalasari, N. Suciati, and D.A. Navastara. "Handwritten Text
publications over	Recognition using Fully Convolutional Network." IOP Conference Series:
the last 5 years	Materials Science and Engineering. Vol. 1077. No. 1. IOP Publishing,
	2021.
	2. D.A. Navastara, M. F. Maulana, N. Suciati, and S. T. Sarena. "Vehicle
	Classification Based on CCTV Video Recording Using Histogram of
	Oriented Gradients, Local Binary Patterns, and Hierarchical Multi-SVM."
	IOP Conference Series: Materials Science and Engineering. Vol. 1077. No.
	1. IOP Publishing, 2021.
	3. D. Purwitasari, R. Alamsyah, D.A. Navastara, C. Fatichah, S. Sumpeno,
	and M.H. Purnomo. "Visualizing Academic Experts on a Subject Domain
	Map of Cartographic-Alike." Advances in Computer, Communication and
	Computational Sciences. Springer, Singapore, 707-719, 2021.
	4. D.A. Navastara, H. Wiranto, C. Fatichah, and N. Suciati. "Facial Expression
	Recognition Using Wavelet Transform and Convolutional Neural
	Network." Advances in Computer, Communication and Computational
	Sciences. Springer, Singapore, 941-952, 2021
	5. C. Fatichah, P.D.S. Wiyadi, D.A. Navastara, N. Suciati, and A. Munif.
	"Incident Detection based on Multimodal data from Social Media using
	Deep Learning Methods." 2020 International Conference on ICT for Smart
	Society (ICISS). IEEE, 2020.
	6. Fajar, R., Suciati, N. and Navastara, D.A. "Real Time Human Activity
	Recognition Using Convolutional Neural Network and Deep Gated
	Recurrent Unit." 2020 International Conference on Electrical Engineering
	and Informatics (ICELTICs). IEEE, 2020.
	7. Nafis, A.F., Navastara, D.A. and Yuniarti, A. "Facial Expression
	Recognition on Video Data with Various Face Poses Using Deep
	Learning." 2020 12th International Conference on Information Technology
	and Electrical Engineering (ICITEE). IEEE, 2020.
	8. Navastara, D.A., Putra, W.Y.M. and Fatichah, C. "Drowsiness detection
	based on facial landmark and uniform local binary pattern." Journal of
	Physics: Conference Series. Vol. 1529. No. 5. IOP Publishing, 2020.
	9. Fatichah, C., Lazuardi, W.F., Navastara, D.A., Suciati, N. and Munif, A.
	"Image spam detection on instagram using convolutional neural network."
	Intelligent and Interactive Computing. Springer, Singapore, 295-303, 2019
	10. Navastara, D.A., Zaqiyah, A.A. and Fatichah, C. "Opinion Spam Detection
	in Product Reviews Using Self-Training Semi-Supervised Learning
	Approach." 2019 International Conference on Advanced Mechatronics,
	Intelligent Manufacture and Industrial Automation (ICAMIMIA). IEEE,
	2019.
	11. Fatichah, C., Alam, S.P. and Navastara, D.A. "Optical Flow Feature Based
	for Fire Detection on Video Data." 2019 1st International Conference on
	Artificial Intelligence and Data Sciences (AiDAS). IEEE, 2019.
	12. Indraswari, R., Kurita, T., Arifin, A.Z., Suciati, N., Astuti, E.R. and
	Navastara, D.A. "3D Region Merging for Segmentation of Teeth on Cone-
	Beam Computed Tomography Images." 2018 Joint 10th International
	Conference on Soft Computing and Intelligent Systems (SCIS) and 19th
	International Symposium on Advanced Intelligent Systems (ISIS). IEEE,
	2018.
	12 4 5 4 7 4 5 5 6 5 5 4 3 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

13. Arifin, A.Z., Arifiani, S., Fariza, A., Navastara, D.A. and Indraswari, R. "Hierarchical Clustering Linkage for Region Merging in Interactive Image

- 14. Arifin, A.Z., Indraswari, R., Suciati, N., Astuti, E.R. and Navastara, D.A. "Region merging strategy using statistical analysis for interactive image segmentation on dental panoramic radiographs." Int. Rev. Comput. Softw 12.1 (2017): 63, 2017
- 15. Ekoputris, R.O., Arifin, A.Z., Wijaya, A.Y. and Navastara, D.A "Trabecular Bone Segmentation Based on Segment Profile Characteristics Using Extreme Learning Machine on Dental Panoramic Radiographs." Annual Research Seminar (ARS). Vol. 3. No. 1. 2017.
- 16. Saddam, M., Tjandrasa, H. and Navastara, D.A. "Classification of alcoholic EEG using wavelet packet decomposition, principal component analysis, and combination of genetic algorithm and neural network." 2017 11th International Conference on Information & Communication Technology and System (ICTS). IEEE, 2017.
- 17. Rahma, A.S., Bisono, E.F., Arifin, A.Z., Navastara, D.A. and Indraswari, R. "Generating automatic marker based on combined directional images from frequency domain for dental panoramic radiograph segmentation." 2017 Second International Conference on Informatics and Computing (ICIC). IEEE, 2017.
- 18. Adillion, I.G., Arifin, A.Z., Navastara, D.A. and Indraswari, R. "Incorporating spatial information and line feature on adaptive classifier for trabecular bone segmentation." 2017 11th International Conference on Information & Communication Technology and System (ICTS). IEEE, 2017.
- Fatichah, C., Navastara, D.A., Suciati, N. and Nuraini, L. "Determining the number of clusters for nuclei segmentation in breast cancer image." Eighth International Conference on Graphic and Image Processing (ICGIP 2016). Vol. 10225. International Society for Optics and Photonics, 2017.
- Budiman, W.Y., Tjandrasa, H. and Navastara, D.A. "Classification of EEG signals using common spatial pattern-principle component analysis and interval type-2 fuzzy logic system." 2016 International Conference on Information & Communication Technology and Systems (ICTS). IEEE, 2016
- 21. Arifin, A.Z., Sholikah, R.W., Fanny, D.H. and Navastara, D.A. "Region Based Image Retrieval Using Ratio of Proportional Overlapping Object." Telkomnika 14.4 (2016): 1608, 2016

Activities in specialist bodies over the last 5 years

2016

- Odd Semester: Graph Theory, Information System and Technology, Robotics.
- Even Semester: Artificial Intelligence, Graph Theory, Algorithm and Computer Programming, Data Mining.

2017

- Odd Semester: Graph Theory, Robotika, Computational Intelligence.
- Even Semester: Social Media Analysis, Automata, Algorithm and Computer Programming, Artificial Intelligence.

2018

- Odd Semester: Computational Intelligence, Graph Theory and Automata, Robotics.
- Even Semester: Artificial Intelligence, Algorithm and Computer Programming.

2019

- Odd Semester: Computational Intelligence, Robotics.
- Even Semester: Artificial Intelligence, Social Network Analysis.

2020

- Odd Semester: Computational Intelligence, Robotics, Programming Fundamental.
- 1. 2020 now: Directorate of ICT Development, ITS (Section Head of customer relations and business planning)
- 2. 2018 now: ITS Professional Certification Institute (Certification Division)

Area of Expertise: Network-Based Computing

Name	Prof. Tohari Ahmad S.Kom., MIT, Ph.D.
Position	Professor
Academic career	- Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2000.
	- Master's degree, Monash University, Australia, 2007.
	- Doctoral Degree, Royal Melbourne Institute of Technology, Australia, 2012
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics
	Technology, Institut Teknologi Sepuluh Nopember
Research and	1. Reversible Data Hiding with Segmented Secrets and Smoothed Samples
development	in Various Audio Genres, 2020
projects over the	2. Evaluating the Performance of Fibbing Architecture in the Hybrid
last 5 years	Software Defined Network, 2020
	3. A New Approach of Botnet Activity Detection Model based on Time Periodic Analysis, 2020
	4. Anomaly-based Intrusion Detection Approach for IoT Networks Using Machine Learning, 2020
	5. Reversible Data Hiding Scheme based on General Difference
	Expansion Cluster, 2020
	6. Path Selection in Software Defined Network Data Plane using Least Loaded Path, 2020
	7. Cancellable Fingerprint Generation by Projection-based Transformation and Quantization, 2020
	8. Reducing Computational Cost of Pair-Polar Coordinate-based Cancelable Fingerprint Template Matching, 2020
	9. Feature Importance Ranking for Increasing Performance of Intrusion
	Detection System, 2020
	10. Development of Load Balancing Mechanisms in SDN Data Plane Fat Tree using Modified Dijkstra's Algorithm, 2020
	11. Improving the Capacity of Data Hiding by Modifying the Interpolation
	of Audio Samples, 2020 12. Improving the Performance of Histogram-based Data Hiding Method in
	the Video Environment, 2020
	13. Hiding Data in Audio Files: A Smoothing-Based Approach to Improve the Quality of the Stego Audio, 2020
	14. Improving Intrusion Detection System by Estimating Parameters of Random Forest in Boruta, 2020
	15. Pearson Correlation Attribute Evaluation-based Feature Selection for
	Intrusion Detection System, 2020 16. B-Corr Model for Bot Group Activity Detection based on Network
	Flows Traffic Analysis, 2020
	17. A Node Density-based Approach for Energy-Efficient Data Gathering Protocol in Wireless Sensor Network Environments, 2020
	18. Improving the Performance of Data Hiding by Designing Three
	Samples-based Smoothing in Audio, 2020 19. Analyzing the Performance of Intrusion Detection Model using
	Weighted One-Against-One Support Vector Machine and Feature
	Selection for Imbalanced Classes, 2020 20. Improving the Capability of Reduced Difference Expansion based
	Digital Image Data Hiding, 2019 21. An Energy-Aware Computation Offloading Framework for a Mobile
	Crowdsensing Cluster using DMIPS Approach, 2019
	22. Protecting Secret Data using RDE and Fuzzy Logic to Specify the Embedding Level, 2019

- 23. Histogram-based Multilayer Reversible Data Hiding Method for Securing Secret Data, 2019
- 24. Reversible Data Hiding Method by Extending Reduced Difference Expansion, 2019
- 25. Multiple Embedding Process for Increasing the Capacity of the Embedded Secret Message, 2019
- 26. A New Data Hiding Method for Protecting Bigger Secret Data, 2019
- 27. Hiding Secret Data in Grayscale Images by Improving the Method of Reduced Difference Expansion, 2019
- 28. A Grid-Based Clustering with Dynamic Forwarding Path for Energy-Efficient Data Gathering in Wireless Sensor Network Environments, 2019
- 29. Data Preprocessing and Feature Selection for Machine Learning Intrusion Detection Systems, 2019
- 30. Assessing Centroid-Based Classification Models for Intrusion Detection System Using Composite Indicators, 2019
- 31. Developing Audio Data Hiding Scheme using Random Sample Bits with Logical Operators, 2019
- 32. Cluster Analysis-Based Approach Features Selection on Machine Learning for Detecting Intrusion, 2019
- 33. Increasing Accuracy and Completeness of Intrusion Detection Model using Fusion of Normalization, Feature Selection Method and Support Vector Machine, 2019
- 34. Reversible Data Hiding in Audio Based on Discrete Cosine Transform and Location Maps, 2019
- 35. Analyzing The Effect of Block Size on the Quality of the Stego Audio,
- 36. An Improved Secret Message Capacity using Modulus Function Based Color Image Data Hiding, 2018
- 37. Audio Data Hiding using Octal Modulus Function based Unsigned Integer Sample Values, 2018
- 38. Continuous Top-k Dominating Query of Incomplete Data over Data Streams, 2018
- 39. Data Refinement Approach for Answering Why-Not Problem Over K-Most Promising Product (K-MPP) Queries, 2018
- 40. Analyzing the Performance of Machine Learning Algorithms in Anomaly Network Intrusion Detection Systems, 2018
- 41. Position-based Scheme for Multi-Hop Routing Protocol in Cluster-Based Wireless Sensor Networks, 2018
- 42. Enhancement Of Pixel Value Ordering based Data Hiding by Row Block Partition, 2018
- 43. SCFT: Sector-based Cancelable Fingeprint Template, 2017
- 44. A Mobile Crowdsensing Framework for Integrating Smartphone and IoT Devices to Cloud Computing Services, 2017
- 45. Enhanced Pixel Value Modification based on Modulus Function for RGB Image Steganography, 2017
- 46. Edit Distance Weighting Modification using Phonetic and Typographic Letter Grouping over Homomorphic Encrypted Data, 2017
- 47. A Data Hiding Approach using Enhanced-RDE in Grayscale Images,
- 48. Reversible Audio Steganography using Reduced Difference Expansion Method and Sample Value Modification, 2017
- 49. Increasing Performance of IDS by Selecting and Transforming Features using Quality Threshold Distance to Detect Intrusion in TCP/IP network, 2016
- 50. Overlapped Scheme for Neighboring Similarity Method in Video-

	Based Data Hiding, 2016
	51. Hiding Secret Data by using Modulo Function in Quad Difference Expansion, 2016
	52. Adaptive Image Compression USING Adaptive Huffman and LZW, 2016
	53. Reversible Video Steganografi using Improved Reduced Difference Expansion and Gray Level Co-occurrence Matrix Analysis, 2016
	54. Difference Expansion-Based Data Hiding Method by Changing Expansion Media, 2016
	55. Development of File Security Methods Using Graph Coloring, 201656. An Improved Neighbouring Similarity Method for Video
	Steganography, 2016 57. Enhancing DE-based Data Hiding Method by Controlling the Expansion, 2016
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important	High Quality PVM Based Reversible Data Hiding Method for Digital
publications over	Images, 2019
the last 5 years	2. Detecting Malicious Activities in a Computer Cluster for Developing
	Dynamic Honeypot, 2018 3. Enhancing the Capability of Data Hiding Method based on Reduced
	Difference Expansion, 2018
	4. Adaptive Pixel Value Grouping for Protecting Secret Data in Public Computer Networks, 2018
	5. Enhancing the Performance of Audio Data Hiding Method by
	Smoothing Interpolated Samples, 2018 6. Improving Prediction Error Expansion based Data Hiding Method for
	Securing Confidential Data, 2018
	7. Securing Secret Data by Enhancing the Controlling Expansion Method, 2018
	8. Protecting Data by Improving Quality of Stego Image based on
	Enhanced Reduced Difference Expansion, 2018 9. Information Hiding Scheme for Digital Images using Difference
	Expansion and Modulus Function, 2018 10. Medical Record Protection with Improved Grade Data Hiding Method
	on Audio Files, 2017
	11. L-SCANN: Logarithmic Subcentroid and Nearest Neighbor, 201612. Audio Data Hiding Based on Sample Value Modification using
	Modulus Function, 2016
	13. Increasing Accuracy of Process-based Fraud Detection using a Behavior Model, 2016
Activities in	2016
specialist bodies over the last 5	- Odd Semester: Special Topics in Net Centric Computing, Digital System, Net Centric Computing, Advance topics in Multimedia
years	Network, Seminar 2
	- Even Semester: Computer Network, Advance Topics in Network Security, Digital System, Information and Network Security
	2017
	- Odd Semester: Special Topics in Net Centric Computing, Information
	System and Technology, Digital System, Seminar 1, Advance topics in Multimedia Network
	 Even Semester: Advance Topics in Network Security, Seminar 2, Information and Network Security, Computer Network
	information and recivors Security, Computer Network

 Odd Semester: Computer Network, Undergraduate Pre-Thesis, Dissertation Writing, Information and Network Security, Net Centric Computing Even Semester: Advance Topics in Network Security, Research Methodology, Digital System, Dissertation Writing
 Odd Semester: Information and Network Security, Digital System, Advance Topics in Multimedia Network, Dissertation Writing Even Semester: Advance Topics in Network Security, Digital System
 Odd Semester: Computer Network, Digital System, Advance Topics in Multimedia Network, Research Dissertation I, Dissertation Writing

Name	Ary Mazharuddin Shiddiqi, S.Kom., M.Comp.Sc., Ph.D.
Position	Associate Professor, Secretary of Academic Affairs
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2004. Master's degree, Monash University, Australia, 2010. Doctoral Degree, University of Western Australia, Australia, 2019.
Employment	Lecturer, Secretary of Academic Affairs, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Monitoring Computer Networks Using the Internet of Things based on Wemos D1 ESP6288, 2020 Optimization of Current Sensor Placement for Corrosion Detection in Water Pipelines, 2020 Micro-Climate Mapping and Modeling Based on 3D City Model to Support Land Use Structure, 2020 An Advanced Sensor Placement Strategy for Small Leaks Quantification Using Lean Graphs, 2020 Internet of Things Based User Oriented Wi-Fi Quality Analyzer, 2020 The Development of Blackhole Attack in AODV Routing Protocol, 2020 Applied Machine Learning in Load Balancing, 2020 GCRFP-Page Replacement for Solid State Drive Using Ghost-Cache, 2020 Increasing The Robustness of Classification Algorithms to Quantify Leaks Through Optimization, 2020 Development of Offloading Computing Mechanisms to Improve Performance and Resource Efficiency on Mobile Devices in Wireless Environments, 2019 An Enhanced Sensor Placement Strategy to Quantify Small Leaks in Water Distribution Networks using Weighted Lean Graphs, 2019 Sensor energy preservation for leak quantification using Distance-Based feature selection method, 2019 An Effective Sensor Placement Strategy to Quantify Multiple Small Leaks in Water Distribution Networks using Lean Graphs, 2018 Sensing-based leak quantification techniques in water distribution systems, 2018
Y 1	15. Sensor placement strategy for locating leaks using lean graphs, 2017
Industry collaborations over the last 5 years	None

Patents and	None
proprietary rights	
Important	Books
publications over	Shiddiqi, Ary & Cardell-Oliver, Rachel & Datta, Amitava. (2018).
the last 5 years	Sensing-Based Leak Quantification Techniques in Water Distribution
	Systems. 10.1201/b21948-5.
	International Journal Paners
	International Journal Papers 1. Shiddiqi, A.M., Cardell-Oliver, R., Datta, A. An Advanced Sensor
	Placement Strategy for Small Leaks Quantification Using Lean Graphs.
	Water 2020, 12, 3439. https://doi.org/10.3390/w12123439
	Domestic Journal Papers
	1. Junaidi, Wibowo, P., Yuniasri, D., Damayanti, P., Shiddiqi, A.M.,
	Pratomo, B.A., "Applied Machine Learning in Load Balancing," Jurnal
	Ilmiah Teknologi Informasi, 2020, vol 18, no 2, pp. 76-84, doi: http://dx.doi.org/10.12962/j24068535.v18i2.a940
	2. Suadi, W., Djanali, S., Wibisono, W., Anggoro, R., Shiddiqi, A.M.,
	"Replacement for Solid State Drive Using Ghost-Cache," Jurnal Ilmiah
	Teknologi Informasi, 2020, vol 18, no 2, pp. 94-101, doi:
	http://dx.doi.org/10.12962/j24068535.v18i2.a986
	3. Shiddiqi, A.M., "Increasing the Robustness of Classification Algorithms
	to Quantify Leaks Through Optimization," Jurnal Ilmiah Teknologi
	Informasi, 2020, vol 18, no 1, pp. 1-8, doi: ttp://dx.doi.org/10.12962/j24068535.v18i1.a841
	ttp://dx.doi.org/10.12902/J24008353.V1811.a841
	Conference Papers
	1. N. G. Razafindrobelina, R. Anggoro and A. M. Shiddiqi, "The
	development of a routing protocol based on Reverse-AODV by
	considering an energy threshold in VANET," 2021 IEEE International
	IOT, Electronics, and Mechatronics Conference, 2021, pp. 1-7.2. Bantoso, B. J., A. M. Shiddiqi, Kusuma, R, "A Heuristic Load Balancing
	Algorithm for Cloud Computing in Heterogeneous Resource
	Environment", The 5th International Conference on Information
	Technology and Digital Applications, 13th-14th November 2020,
	Yogyakarta, Indonesia, Vol. 1077, no. 1, pp. 12-16, IOP Publshing.
	3. A. M. Shiddiqi, R. M. Ijtihadie and M. I. I. Haq, "Internet of Things
	Based User Oriented Wi-Fi Quality Analyzer," 2020 International
	Conference on Computer Engineering, Network, and Intelligent
	Multimedia (CENIM), 2020, pp. 292-296. 4. R. Anggoro, W. Suadi, A. M. Shiddiqi, R. Ijtihadie, S. Lili and D. W. L.
	Pamungkas, "The Development of Blackhole Attack in AODV Routing
	Protocol," 2020 International Conference on Computer Engineering,
	Network, and Intelligent Multimedia, 2020, pp. 309-314.
Activities in	2019
specialist bodies	- Odd Semester: Computer Organization, Net Centric Computing
over the last 5	- Even Semester: Knowledge Engineering, Web Programming, Digital
years	Forensics, Software Design, Operating System, Computer Algorithms and Programming
	2020
	- Odd Semester: Computer Network, Computer Organization, Net
	Centric Computing

Name	Hudan Studiawan S.Kom., M.Kom., Ph.D.
Position	Assistant Professor
Academic career	- Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia,
	2009.
	- Master's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2012.
	- PhD degree, Murdoch University, Australia, 2021.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics
	Technology, Institut Teknologi Sepuluh Nopember
Research and	Forensic Investigation of Event Logs by Automatic Anomaly Detection
development	
projects over the	
last 5 years	
Industry collaborations	None
over the last 5 years	
Patents and	None
proprietary rights	
Important	1. Anomaly Detection in Operating System Logs with Deep Learning-
publications over	based Sentiment Analysis, 2020
the last 5 years	2. Sentiment Analysis in a Forensic Timeline with Deep Learning, 2020
	3. Automatic event log abstraction to support forensic investigation, 2020
	4. A survey on forensic investigation of operating system logs, 2019
	5. Graph clustering and anomaly detection of access control log for
	forensic purposes, 2017
	6. Automatic log parser to support forensic analysis, 2017
Activities in	Journal Reviewer
specialist bodies	1. Computers & Security
over the last 5	2. IEEE Internet of Things Journal
years	3. Future Generation Computer Systems
	4. Wiley Interdisciplinary Reviews series (WIREs) Forensic Science

Name	Bagus Jati Santoso, S.Kom., Ph.D.
Position	Assistant Professor
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2008. Doctoral Degree, National Taiwan University of Science and Technology, Taiwan, 2016
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Cloud-based middleware for supporting batch and stream access over smart healthcare wearable device, 2020 A Heuristic Approach for Multi-Objective Aircraft Conflict Detection and Resolution, 2019 Docker-based Network Functions Virtualization as a Learning Tool in Computer Network Course, 2019 A grid-based approach in answering Top-k dominating queries on groups, 2019 Answering Why-Not Questions on Reverse Skyline Queries Over Incomplete Data, 2019 Continuous Top-k Dominating Query of Incomplete Data over Data Streams, 2018 Data Refinement Approach for Answering Why-Not Problem Over K-Most Promising Product (K-Mpp) Queries, 2018 Efficient Skyline-based Web Service Composition with QoS-awareness and Budget Constraint, 2018

	 Multi criteria decision system for distribution provisioning and resource optimization using analytical hierarchy process, 2017 Resource elasticity controller for docker-based web applications, 2017 Designing Efficient Schemes for Answering Dominance-Based Queries, 2016
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	None
Activities in specialist bodies over the last 5 years	 2017 Odd Semester: Net Centric Computing, Operating System, Network Programming, Security Design of System and Network Even Semester: Information and Network Security, Internetworking Technology, Computer Network
	 2018 Odd Semester: Computer Network, Information and Network Security, Internetworking Technology, Network Programming, Operating System Even Semester: Network Programming, Operating System
	 2019 Odd Semester: Information and Network Security, Internetworking Technology, Computer Algorithms and Programming Even Semester: Network Programming, Operating System
	 2020 Odd Semester: Advanced Spreadsheet, Data and Information Management, Fundamental Programming, Computer Network

Name	Dr. Baskoro Adi Pratomo S.Kom., M.Kom.
Position	Assistant Professor
Academic career	- Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2008.
	- Master's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2011.
	- PhD degree, Cardiff University, United Kingdom, 2021.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics
	Technology, Institut Teknologi Sepuluh Nopember
Research and	1. BLATTA: Early Exploit Detection on Network Traffic with Recurrent
development	Neural Networks, 2020
projects over the	2. Applied Machine Learning in Load Balancing, 2020
last 5 years	3. Vote Identification and Integrity of Ballot in Paper-Based E-Voting System, 2018
	4. Unsupervised Approach for Detecting Low-Rate Attacks on Network Traffic with Autoencoder, 2018
	5. Clustering of SSH Brute-force Attack Logs using K-Clique Percolation, 2016
	6. Design and Development of Voting Data Security for Electronic Voting (E-Voting), 2016

Industry collaborations over the last 5 years	 Ministry of Social Affairs Republic of Indonesia (2021) National Cyber Security Centre, United Kingdom (2020-2021)
Patents and	None
proprietary rights	
Important	1. BLATTA: Early Exploit Detection on Network Traffic with Recurrent
publications over	Neural Networks, 2020
the last 5 years	2. Unsupervised Approach for Detecting Low-Rate Attacks on Network
	Traffic with Autoencoder, 2018
Activities in	2020:
specialist bodies	Even Semester:
over the last 5	- Network and System Security Design
years	- Network Programming
	- Network-centric Computing

Area of Expertise: Programming Algorithm

Name	Dr. Yudhi Purwananto, S.Kom., M.Kom.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1995. Master's degree (Computer Science), Universitas Indonesia, Indonesia,
	 2002. Doctoral degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2021.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
D 1	
Research and	A Heuristic Approach for Multi-Objective Aircraft Conflict Detection and
development	Resolution, 2019
projects over the	
last 5 years	NY.
Industry collaborations	None
over the last 5 years	NY.
Patents and	None
proprietary rights	
Important	Yudhi Purwananto, Chastine Fatichah, Waskitho Wibisono, Ary M.
publications over	Shiddiqi, Bagus J. Santoso, Nurlita D. Fatmawati, "Collision Avoidance
the last 5 years	Modelling in Airline Traffic Based on the Change of Airplane Movements and Dynamic Clouds," Journal of Computer Science, 17(1), pp. 33–43, 2021
Activities in	2018
specialist bodies over the last 5	- Even Semester: Probability and Statistics
	2019
years	- Odd Semester: Operations Research, Linear Algebra
	- Odd Semester: Operations Research, Linear Algebra - Even Semester: Numerical Computing, Probability and Statistics
	- Even Semester. Numerical Computing, Frooability and Statistics
	2020
	- Odd Semester: Operations Research, Linear Algebra

Name	Dr. Diana Purwitasari, S.Kom., M.Sc.
Position	Associate Professor (2001)
Academic career	 (Dr.) Department of Electrical Engineering, Institut Teknologi Sepuluh Nopember, Indonesia, March 2020 (Dissertation: "Modeling Scholar Profile in Expert Recommendation based on Multi-Layered Bibliographic Graph") Advisor: Prof. Mauridhi Hery Purnomo, Dr. Surya Sumpeno, Dr.Eng. Chastine Fatichah (M.Sc.) Graduate School of Science and Engineering, Saga University, Japan, March 2009 (Thesis: "Adaptive Content-based Navigation Generating System for Web-based Learning Applications") Advisor: Prof. Kenzi Watanabe, Dr. Yasuhisa Okazaki (S.Kom.) Department of Informatics Engineering, Institut Teknologi Sepuluh Nopember, Indonesia, September 2001, Minored in Software Engineering
Employment	 Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology Algorithm and Programming Laboratory (IF184101 Programming Fundamental; IF184202 Data Structure) Intelligent Computing and Vision Laboratory (IF184955 Information Retrieval; IF184957 Social Network Analysis)

Research and	1.	
development		topic-based vector expansion (IDR 20M)
projects over the	2.	(2021) Social media recommendation system for supporting
last 5 years		productivities based on working-age group behaviour with ego-centric
		network analysis to overcome COVID-19 movement restrictions (IDR
		80M)
	3.	(2021) Fuzzy approaches for supporting decisions in controlling dengue
	1	infectious disease (IDR 20M) (2021) Multi-attentions based deep learning for translating Indepesies
	4.	(2021) Multi attentions based deep learning for translating Indonesian-Arabic texts (IDR 50M)
	5.	(2021) Credibility measure of Twitter accounts for understanding public
		concerns in COVID-19 era (IDR 50M)
Industry collaborations	1.	Developing student admission system, State Office of Education, East
over the last 5 years		Java Province, Indonesia (2020)
,	2.	Developing Skill Passport Application, Direktorat Kemitraan dan
		Penyelarasan Dunia Usaha dan Dunia Industri, Direktorat Jenderal
		Pendidikan Vokasi, Kemdikbud, Indonesia (2020)
	3.	SIWALAN - Sistem Informasi Warga Layanan Antar, Diskominfo,
		Tuban Regency, East Java Province, Indonesia (2020)
	4.	IEEE-Sights (#20-COV-30) Web-based Application for Tracing
		COVID-19 in East Java Province, Indonesia (2020)
Patents and	1.	(2021) Program Komputer "MyITS.online TKA-EFL" Web-based
proprietary rights		application for online test on subjects of Academic Aptitude Test (tes
		kemampuan akademik) and english as foreign language at Institut
		Teknologi Sepuluh Nopember (ITS)
	2.	(2021) Program Komputer "ItsBehavex-Collab" Deep-learning based
		application to help researchers in finding collaborators with similar
Important	1	topic interests.
Important publications over	1.	B.A. Sanjoyo, D. Purwitasari, M. Hariadi, K. Tsukasa, and M.H.
the last 5 years		Purnomo. "Shallow Water Models for Efficiently Visualizing Fluid
the last 3 years		Flow in Complex Topography Areas", IAENG International Journal of
	2	Applied Mathematics 51 (1): IJAM_51_1_04, 2021
	2.	N.A. Hasanah, N. Suciati, and D. Purwitasari. "Identifying Degree-of-
		Concern on COVID-19 topics with text classification of Twitters",
		Register: Jurnal Ilmiah Teknologi Sistem Informasi 7 (1): 50-62, 2021
	3.	A. Setiyoutami, D. Purwitasari, W. Anggraeni, E.M. Yuniarno, and
		M.H. Purnomo. "Modelling Dengue Spread as Dynamic Networks of
		Time and Location Changes", International Journal of Intelligent
		Engineering and Systems, 14 (3): 346-358, March 2021
	4.	A.A. Zaqiyah, D. Purwitasari, and C. Fatichah. "Text Generation with
		Content and Structure-Based Preprocessing in Imbalanced Data of
		Product Review", International Journal of Intelligent Engineering and
		Systems, 14 (1): 516-527, December 2020
	5.	N. Rijati, D. Purwitasari, S. Sumpeno, and M.H. Purnomo. "A Decision
		Making and Clustering Method Integration based on the Theory of
		Planned Behavior for Student Entrepreneurial Potential Mapping in
		Indonesia", International Journal of Intelligent Engineering and
		Systems, 13 (4): 129-144, August 2020
	6.	, , , , , ,
		Purnomo. "Identifying collaboration dynamics of bipartite author-topic
		networks with the influences of interest changes", Scientometrics 122:
		1407–1443, 2020

Activities in specialist bodies over the last 5 years	Odd Semester: Data Structure, Information Retrieval, Computational Intelligence, Desain and Analysis Algorithms, Programming Fundamental
	2019 - Even Semester: Social Network Analysis, Artificial Intelligence
	 Odd Semester: Information Retrieval, Computational Intelligence, Desain and Analysis Algorithms, Programming Fundamental
	 IEEE Indonesia Section Humanitarian Technology and Community Activities (activity committee, 2021) Indonesian Artificial Intelligence Society (IAIS) Chapter Jatim (2020-2021) Pusat Unggulan IPTEKS Artificial Intelligence for Healthcare and
	Society (AIHeS) (vice chair, 2020-2021) 4. Industrial Electronics Society (IES) Chapter Indonesia Section (Treasurer, 2020-2021)
	5. Penyusun Strategi Nasional Kecerdasan Artifisial Indonesia Tahun 2020-2045, Kelompok Kerja IV Riset dan Inovasi Industri (Maret-Agustus 2020)

Name	Ir. F.X. Arunanto, M.Sc.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Engineering), Institut Teknologi Sepuluh Nopember, Indonesia, 1982. Master's degree (Computer Science), Curtin University of Technology, Australia,1998.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember, Indonesia
Research and development projects over the last 5 years	 Feature Extraction using Combination of Intrinsic Mode Functions and Power Spectrum for EEG Signal Classification, 2016 Implementation of Transfer Rate Management on SDN-Based HDFS Process, 2016 Development of Human Mental State Recognition System Software Based on EEG Brain Activity Waves, 2016 Online Spatial Information Service Design with Spatial Data Based on Detailed Spatial Planning (RDTR), 2016 Classification of P300 in EEG Signals for disabled subjects using singular spectrum analysis, 2017 Development of Automatic Door System Based On E-KTP and Face Recognition, 2019 E-KTP with NFC-Reader to Open the Door, 2019 Application of Deep Learning Long Short-Term Memory Network Method in Time-Series Data Prediction, 2020
Industry collaborations	
over the last 5 years	
Patents and proprietary rights	None
Important publications over the last 5 years	None

Activities in specialist bodies over the last 5 years	Odd Semester: Programming Fundamentals, Grid and Parallel Computing, Topics in Parallel Computing and High Performance.
	 2016 Odd Semester: Grid and Parallel Computing, Basic Programming. Even Semester: Data Structure, Computer Organization.
	 2017 Odd Semester: Basic Programming, Grid and Parallel Computing. Even Semester: Data Structure, Computer Organization.
	 2018 Odd Semester: Basic Programming, Computer Organization. Even Semester: Data Structure, Basic Programming.
	 2019 Odd Semester: Computer Organization, Basic Programming. Even Semester: Data Structure, Grid and Parallel Computing, Basic Programming.
	2020 - Odd Semester: Basic Programming, Computer Organization.

Name	Rully Soelaiman, S.Kom., M.Kom.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1994. Master's degree (Computer Science), Universitas Indonesia, Indonesia, 2003.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 Application of Deep Learning Long Short-Term Memory Network Method in Time-Series Data Prediction, 2020 Hybrid Saliency-SVM Method Implementation for Automatic Data Training Selection in Image Segmentation, 2019 Performance Comparison between Baby-Step Giant-Step Method and Pollard Rho with Brent Cycle Detection Method in Causing Total Break Toward Digital Signature Algorithm Scheme, 2018 Application of Square Root Decomposition Technique and Mo's Algorithm in Algorithm Design Case Study: SPOJ Classic Counting Diff-Pairs, 2018 Implementation of the Rope Data Structure on the SPOJ Alphabetic Rope Problem, 2018 Design and Build an Online Auction Application (E-Auction) based on Android Mobile Devices, 2017 Smartphone-Based Hearing Aids to Help People with Hearing Loss, 2017 A comparative study of finger vein recognition by using Learning Vector Quantization, 2017 Implementation of Feature Extraction for Grouping Music Files Based on Similar Sound Characteristics, 2017 Design and Analysis of Dijkstra's Algorithm and Naive Visibility Graph

	 Method for Solving Spoj Problems the Archipelago, 2016 11. Comparing Algorithm Complexity in Solving Graph Isomorphism Problems, 2016 12. Design and Build an Android-Based Car Driver Behavior Data Representation Application Using Accelerometer and Orientation Sensors, 2016 13. NULIS Application Design: Learning Media for Dysgraphy Students, 2016 14. Comparative Analysis of Single-Pass Six-Way Blend Techniques and Threshold Scheme Rendering Techniques for Sketches on Three-Dimensional Objects, 2016 15. Implementation of Centerline Extraction Algorithm Based on The Principal Curve: A Case Study of Vehicle Segments, 2016 16. Automatic Detection of Proliferative Diabetic Retinopathy with Hybrid Feature Extraction Based on Scale Space Analysis and Tracking, 2016
Industry collaborations	None
over the last 5 years	Tione
Patents and	None
proprietary rights	
Important	1. Hearing aids based on smartphone by implementing tympanic
publications over	membrane and basiliar membrane compression, 2017
the last 5 years	2. Multi-feature fusion using SIFT and LEBP for finger vein recognition, 2017
Activities in specialist bodies over the last 5 years	 2016 Odd Semester: Information Systems and Technology, Design and Analysis of Algorithms I, Special Topic Algorithms and Programming Even Semester: Data Structure, Algorithm Design and Analysis II
	 2017 Odd Semester: Algorithm Design and Analysis I, Basic Programming Even Semester: Algorithm and Computer Programming, Design and Analysis of Algorithm II, Data Structure
	 2018 Odd Semester: Special Topic Even Semester: Algorithm Design and Analysis
	 2019 Odd Semester: Special Topic, Data Structure Even Semester: Algorithm Design and Analysis
	2020 - Odd Semester: Special Topic, Data Structure

Name	Dwi Sunaryono, S.Kom., M.Kom.	
Position	Assistant Professor	
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1995. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2009. 	
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and	
	Informatics Technology	

Research and development projects over the last 5 years

- 1. Detecting Pork Adulteration in Beef for Halal Authentication Using an Optimized Electronic Nose System, 2020
- Design and Build Project Management Information System IT Department PT. Pertamina UPMS V Surabaya, 2020
- 3. Assistance for the Online School Exam System for Middle School Students in the City of Surabaya, 2020
- 4. Geotagging for Mapping Distribution of Meatballs Containing Borax based on Electronic Nose Detection, 2020
- 5. Comparison of Scheduling Methods for Optimization Production Processes on PT. P, 2020
- 6. Design and Build "Watch" Application as a Communication Media for Parents and Teachers, 2019
- 7. Computer and Information Sciences, 2019
- 8. Graph-based algorithms for discovering a process model containing invisible tasks, 2019
- 9. Custom Web Design Using the Open Graph Protocol in a Web Case Study of Informatics Engineering Department, 2018
- 10. Cover song recognition based on MPEG-7 audio features, 2017
- 11. Comparison of behavioral similarity use TARs and Naïve algorithm for calculating similarity in business process model, 2017
- 12. Fraud detection on event log of bank financial credit business process using Hidden Markov Model algorithm, 2017
- 13. Song Recommendation System Based on Singer's Voice Type in Karaoke Applications, 2017
- 14. Design and Build an Android Mobile Application Student Attendance System through Signature Matching Case Study Informatics Engineering Department ITS, 2017
- 15. Design and Build Applications for Mobile Device-Based Community Poverty Mapping, 2016
- 16. Determining bonus in Enterprise Resource Planning at Human Resource Management module using Key Performance Indicator, 2016
- 17. Poverty classification using Analytic Hierarchy Process and k-means clustering, 2016
- 18. Sales forecasting using Holt-Winters in Enterprise Resource Planning at sales and distribution module, 2016
- 19. NULIS Application Design: Learning Media for Dysgraphy Students, 2016
- Software Design for Monitoring Indonesian Cement Prices and Area Manager Performance on Mobile Devices with QR-Code Technology, 2016
- 21. Model Discovery of Parallel Business Processes using Modified Heuristic Miner, 2015
- 22. Developing Workflow Patterns Based on Functional Subnets and Control—Flow Patterns, 2015
- 23. Examination results of leukocytes and nitrites in the early detection of urinary tract infection, 2015
- 24. Design and Implementation of Inventory Domain for Enterprise Resource Planning Using SOA and Workflow Approach, 2015
- 25. Workflow common fragments extraction based on WSDL similarity and graph dependency, 2015
- 26. Business process composition based on meta models
- 27. Question/Answering with Non-Textual Feature Quality Predictor Answer, 2015

	28. Medical Record Software Design and Development using Windows Presentation Foundation Integrated with Daily Drink Application on Android Phone through Windows Communication Foundation, 2015
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 An android based course attendance system using face recognition, 2019 Classification of music mood using MPEG-7 audio features and SVM with confidence interval, 2018
Activities in specialist bodies over the last 5 years	Odd Semester: Programming Fundamentals, Data Structures, Mobile Device Programming Even Semester: Framework-based Programming, Database Management, Data Structure, Information Technology Governance
	 2017 Odd Semester: Basic Programming, Mobile Programming Even Semester: Data Structure, Framework-based Programming, Database Management
	Odd Semester: Mobile Programming, Framework Based Programming, Database Systems, Interface Based Programming Even Semester: Software Project Management, Database Management, Framework Based Programming
	 Odd Semester: Database System, Basic Programming, Mobile Device Programming Even Semester: Data Structure, Database Management, Interface Based Programming
	 2020 Odd Semester: Database Systems, Web Programming, Enterprise Application Security, Mobile Programming

Name	Fajar Baskoro, S.Kom., M.T.
Position	Assistant Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1997. Master's degree (Engineering), Institut Teknologi Bandung, Indonesia, 2003.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 Analysis of Case Clusters and Epidemic Curves with the development of the East Java COVID-19 Tracing System, 2020 Adaptive Modeling of Time Series Data with Regression-Based Ensemble Learning: A Case Study on the Number of Confirmed COVID- 19 Patients
Industry collaborations over the last 5 years	2019-2021, as a member of project team for Double Track for Highschool Education in East Java Region

Patents and	None
proprietary rights	
Important publications over the last 5 years	 Multivariate Time Series Forecasting Using Recurrent Neural Networks for Meteorological Data, V Hariadi, A Saikhu, N Zakiya, AY Wijaya, F Baskoro, Conference SENATIK STT Adisutjipto Yogyakarta 5, 445-456 Question/Answering with Answer Quality Predictor Non-Textual Feature, 2015
Activities in specialist bodies over the last 5 years	 2016 Odd Semester: Software Design, Analysis and Design of Information Systems, Object Oriented Programming Event: Software Project Management, Web Programming, Object Oriented Programming
	 Odd Semester: Analysis and Design of Information Systems, Object Oriented Programming, Special Topics of Algorithms and Programming, Information Systems and Technology - Event: Software Project Management, Web Programming
	 Odd Semester: Object Oriented Programming, Information Systems Analysis and Design, Web Programming, Event: Framework-Based Programming, Information Systems Design and Analysis, Software Project Management
	 Odd Semester: Software Project Management, Object Oriented Programming Even Semester: Framework Based Programming, Requirements Engineering
	2020 - Odd Semester: Object Oriented Programming, Software Project Management

Name	Misbakhul Munir Irfan Subakti, S.Kom., M.Sc.
Position	Assistant Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1999. Master's degree (Science), National Taiwan University of Science and
	Technology, Taiwan, 2005.
	- Master's degree, University of Birmingham, UK, 2017.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
	Informatics Technology
Research and	1. Development of a Reactive Routing Protocol with Energy Efficiency in
development	Mind, 2021
projects over the	2. Deep Learning on Generating Spam Data for Product Reviews by
last 5 years	Expanding Topic-Based Word Vector Representations, 2020
Industry collaborations	None
over the last 5 years	
Patents and	None
proprietary rights	

Important publications over the last 5 years	A variable-centered intelligent rule system,Irfan Subakti, Proc. of the 1st Annual International Conference: Information and Communication Technology Seminar 2005 (ICTS2005), P 167-174
Activities in specialist bodies over the last 5 years	 Odd Semester: Special Topics, Operations Research, Introduction to Logic and Programming, Linear Algebra Even Semester: Algorithm and Computer Programming, Algorithm Design and Analysis, Odd Semester: Basic Programming, Web Programming Even Semester: Design and Analysis of Algorithms, Data Structures, Special Topics Odd Semester: Basic Programming, Web Programming Odd Semester: Basic Programming, Web Programming

Name	Agus Budi Raharjo, S.Kom., M.Kom., Ph.D.
Position	Lecturer
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2013. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2014. Doctoral degree (Computer Science), Universite D aix Marseille III, Prancis, 2020.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 Analysis of Case Clusters and Epidemic Curves with the Development of the East Java COVID-19 Tracing System, 2020 Adaptive Modeling of Time Series Data with Regression-Based Ensemble Learning: A Case Study of the Number of Confirmed COVID-19 Patients, 2020 Reliability in Ensemble Learning and Learning from Crowds, 2019 Dynamic Reliable Voting in Ensemble Learning, 2019 Decision Combinations in Crowds when Number of Reliable Annotators is Rare, 2017 Multi-Label Classification Merger Decision, 2015
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	None
Activities in specialist bodies over the last 5 years	2019 - Even Semester: Data Structure, Operating System 2020
	- Odd Semester: Object Oriented Programming, Computer Networking, Algorithm Design and Analysis

Area of Expertise: Software Engineering

Name	Dr. Ir. Siti Rochimah, M.T.
Position	Associate Professor
Academic career	 Bachelor's degree, Institut Teknologi Bandung, Indonesia, 1992. Master's degree (Computer Engineering), Institut Teknologi Bandung, Indonesia, 1997. Doctoral degree, Universiti Teknologi Malaysia, Malaysia, 2011.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years Industry collaborations	 Design and Build a PPDB Ranking Module for East Java State High Schools / Vocational High Schools 2020 Development of Game-Based English Grammar Learning Applications, 2020 Security Characteristic Evaluation of New Students Admission Information System Based on ISO/IEC 25010 Quality Standard, 2020 Quality in use of Digital Wallet based on ISO/IEC 25022, 2020 How Agile Software Development Affect Software Reusability (Study Case: New Student Admissions Portal in East Java Province), 2020 Functional Suitability Measurement Based on ISO/IEC 25010 for e-Commerce Website, 2020 Maintainability Measurement Based on ISO/IEC 25010 for e-Commerce Website, 2020 Portability Characteristics Evaluation of MyITS Mobile using ISO/IEC 25010 Quality Standard, 2020 Performance Efficiency Evaluation Frameworks Based on ISO 25010, 2020 Requirements Traceability for Detecting Defects in Agile Software Development, 2020 Requirements Traceability for Detecting Defects in Agile Software Development, 2020 A Serious Game for Measuring and Displaying Mathematics Competencies of Disabled Students, 2019 Use Case Diagram Similarity Measurement: A New Approach, 2019 A Development of Quality Model for Online Games Based on ISO/IEC 25010, 2019 Assessment of Academic Information System Quality from Two Perspectives: Product Quality and Quality in Use, 2019 Security Characteristic Evaluation Based on ISO/IEC 25023 Quality Model, Case Study: Laboratory Management Information System, 2018 Analyzing the Effect of Design Patterns on Software Maintainability: A Case Study, 2018 Process Mining in Supply Chains: A Systematic Literature Review, 2018 Application of Design Patterns and Quality Measurement on Academic Information Systems, 2017 Mobile Application for Guidance and Provision of Toddler's
over the last 5 years	

Patents and	None.
proprietary rights	
Important publications over the last 5 years	 Siti Rochimah "Behavioral analysis for detecting code clones", 2018 Riyanarto Sarno, Siti Rochimah, Daniel Oranova Siahaan, Adhatus Solichah Ahmadiyah "Accuracy improvement of the estimations effort in constructive cost model II based on logic model of fuzzy", 2017 Siti Rochimah, Sarwosri "The improvement of software quality model for academic websites based on multi-perspective approach", 2016 Siti Rochimah, Umi Laili Yuhana, "Classification of non-functional requirements using Semantic-FSKNN based ISO/IEC 9126", 2015 Siti Rochimah "Non-source code refactoring: A systematic literature review", 2015
Activities in specialist bodies over the last 5 years	 Odd Semester: Software Engineering, Software Evolution, Topics in Software Evolution.
	 Odd Semester: Software Engineering, Dissertation Writing, Software Evolution, Topics in Software Evolution. Even Semester: Topics in Software Quality Assurance, Software Quality Assurance, Software Process Improvement, Research Methodology.
	 Odd Semester: Topics in Software Evolution, Dissertation Writing, Software Evolution. Even Semester: Topics in Software Quality Assurance, Dissertation Writing, Software Project Management, Software Quality Assurance.
	 2018 Odd Semester: Software Engineering, Seminar 1, Analysis and Design of Information Systems, Software Evolution. Even Semester: Information System Analysis and Design, Software Quality Assurance, Seminar 2, Topics in Software Quality Assurance.
	 Odd Semester: Topics in Software Evolution, Software Evolution, Software Project Management. Even Semester: Topics in Software Quality Assurance, Information System Analysis and Design, Software Quality Assurance.
	 2020 Odd Semester: Software Project Management, Software Evolution, Seminar 1, Topics in Software Evolution

Name	Daniel O. Siahaan, S.Kom., M.Sc., PD.Eng.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Engineering), Institut Teknologi Sepuluh Nopember, 1999. Master's degree (Science), Technische Universiteit Delft, Netherlands, 2002. Doctoralal degree (Software Engineering), Technische Universiteit Eindhoven, Netherlands, 2004.

Employment	Lecturer, Department of Informatics, Faculty of Intelligent
	Electrical and Informatics Technology
Research and	1. Calculation of the Similarity of Two State Diagrams using Deterministic
development	Methods, Basic Research (Ristek BRIN), 2021
projects over the	2. Software Design Similarity Calculation Methods based on UML
last 3 years	Diagrams Using Natural Language Processing and Artificial Intelligent,
	Doctoral Dissertation Research (RistekBRIN), 2019-2020.
	3. Software Design Similarity Calculation Methods based on UML
	Diagrams Using Natural Language Processing and Artificial Intelligent,
	Doctoral Dissertation Research (RistekBRIN), 2019-2020.
	4. Automated Method of Generating Questions based on Bloom
	Taxonomy based on Pattern Recognition and Deep Learning as the
	Basis for Standardizing the Level of Difficulty of Questions, Doctoral
	Dissertation Research (RistekBRIN), 2019-2020.
	5. Extraction of User Stories from Natural Language for Identification of
	Software Requirements in Public Sector Applications Using Web
	Mining, Doctoral Dissertation Research (RistekBRIN), 2019-2020.
Industry collaborations	None.
over the last 5 years	
Patents and	Aplikasi Sistem Informasi Akademik (SIA) Generik
proprietary rights	ID: EC00201859725
	Kategori: hak cipta Tahun Permohonan :2018
	Patent Holder: LPPM - ITS.
Important	1. Information security vulnerability prediction based on business
publications over	process model using machine learning approach
the last 5 years	Hariyanti, E., Djunaidy, A., Siahaan, D.
	Computers and Security, 2021, 110, 102422
	2. User Stories and Natural Language Processing: A Systematic
	Literature Review
	Raharjana, I.K., Siahaan, D., Fatichah, C.
	IEEE Access, 2021, 9, pp. 53811–53826, 9393933
	3. Automated Class Diagram Assessment using Semantic and
	Structural Similarities
	Fauzan, R., Siahaan, D., Rochimah, S., Triandini, E.
	International Journal of Intelligent Engineering and Systems, 2021,
	14(2), pp. 52–66
	4. MAT-AGCA: Multi Augmentation Technique on small dataset for
	Balinese character recognition using Convolutional Neural Network
	Sutramiani, N.P., Suciati, N., Siahaan, D.
	ICT Express, 2021 5. A Different Approach on Automated Use Case Diagram Semantic
	Assessment
	Fauzan, R., Siahaan, D., Rochimah, S., Triandini, E. International Journal of Intelligent Engineering and Systems, 2021,
	14(1), pp. 496–505
	6. A maturity model for e-commerce adoption by small and medium
	enterprises in Indonesia
	Triandini, E., Djunaidy, A., Siahaan, D.
	Journal of Electronic Commerce in Organizations, 2017, 15(1), pp. 44-58
	7. Game design document format for video games with passive dynamic
	difficulty adjustment
	Atmaja, P.W., Siahaan, D.O., Kuswardayan, D.I.
	Register: Jurnal Ilmiah Teknologi Sistem Informasi, 2016, 2(2), pp. 86-
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Activities in	2020 - Present
specialist bodies	- Head of Center for Scientific Publication, Resarch and Community
over the last 5	Service Directorate, Institut Teknologi Sepuluh Nopember.
years	
	2012 - 2016
	- Member of National Journal Accreditation (Arjuna) Development Team, Ministry of Research, Technology, and Higher Education.
	2014 - 2018
	- Trainer for Series of Electronic Journal Management System
	Workshops, Ministry \of Research, Technology, and Higher
	Education.
	2006 - Present
	- Member of IEEE Computer Society.
	Member of IEEE computer boolety.
	2020
	- Reviewer for number of journals: (1) Knowledge Based System, (2)
	Expert Systems with Applications, (3) Automation in Construction.
	- (Chief) Editor for number of journals: (1) IPTEK The Journal for
	Technology and Science, (2) Sewagati, (3) Informal: Informatics
	Journal.

Dr. Umi Laili Yuhana, S.Kom., M.Sc.
Associate Professor
 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2002. Master's degree (Science), National Taiwan University, Taiwan, 2008. Doctor's degree (Electrical Engineering), Institut Teknologi Sepuluh Nopember, Indonesia, 2019.
Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
Informatics Technology
 GeMAR: Geometry Augmented Reality Application for Elementary School Students, 2020 AUGGO: Augmented Reality and Marker-based Application for Learning Geometry in Elementary Schools, 2020 Sifte-Math, A Sifteo based Mathematics Assessment Serious Game for Deaf Children, 2020 Analysis of Students Ability Assessment Based on Bloom's Taxonomy Using Fuzzy Signatures, 2019 A Serious Game for Measuring and Displaying Mathematics Competencies of Disabled Students, 2019 Parsing the Semantic Structure of Math Story Problems in Indonesian using a Recursive Neural Network, 2019 Parsing the Semantic Structure of Indonesian Math Word Problems using the Recursive Neural Network 2019 HEIRDOM: Multiple Ending Scenario Game for Mathematics Learning Using Rule-Based System, 2018 Classifying the Complexity of Competency in Elementary School based on Supervised Learners, 2018 Making Standard Operating Procedures for the Development of Management Information Systems: Case Study of DPTSI ITS, 2018

	 11. Preparation and Testing of Operability Metrics for Academic Information Systems Based on ISO 25010, 2017 12. Security Quality Measurement Framework for Academic Information System (AIS) based on ISO/IEC 25010 Quality Model, 2017 13. MathBharata: A Serious Game for Motivating Disabled Students to
	Study Mathematics, 2017
	14. Predicting Math Performance of Children with Special Needs based on Serious Game, 2017
	15. Exploring the Cluster-Based Ability Pattern of Exam Participants for Determining the Rules of the Scoring System, 2017
	16. Property Aspects of Usability in Academic Information Systems from the Perspective of Technology Acceptance Model (TAM), 2016
	17. Iot and Machine Learning Implementation in Elementary Level Mathematics Learning Education through Serious Game, 2016
	18. Application Development for Recognizing Type of Infant's Cry Sound, 2016
	19. Design and Build a Web-Based Modular Academic Information System Framework with a Model-View-Controller Hierarchical Architecture Pattern, 2016
	20. PDITS: An Integrated Database Application to Support the Integration of Multi-Information Systems in the Institut Teknologi Sepuluh Nopember, 2016
	21. Generating Cultural Heritage Metadata as Linked Open Data, 2015
	22. Automatic Indonesia's Questions Classification based on Bloom's Taxonomy using Natural Language Processing a Preliminary Study, 2015
	23. Portability Characteristic Evaluation Academic Information System Assessment Module using AIS Quality Instrument, 2015
	 24. Systematic Mapping of Software Quality Metrics, 2015 25. Software Quality Measurement according to ISO/IEC 25000: Systematic Mapping, 2015
	26. Website Quality Measurement Based on ISO 9126: Systematic Mapping, 2015
	27. Usability Characteristic Evaluation on Administration Module of Academic Information System using ISO/IEC 9126 quality model,
Industry collaborations	2015 None.
Industry collaborations over the last 5 years	None.
Patents and	None.
proprietary rights	1 Fla Malanta Waring Hail Valore (A al. land and
Important publications over	1. Eko Mulyanto Yuniarno, Umi Laili Yuhana, "A rule-based expert system for automatic question classification in mathematics adaptive
the last 5 years	assessment on indonesian elementary school environment", 2019
	2. Siti Rochimah, Umi Laili Yuhana,, "Classification of non-functional requirements using Semantic-FSKNN based ISO/IEC 9126", 2015
Activities in specialist bodies over the last 5	2015 - Odd Semester: Information Systems and Technology, Software Design.
years	2019
	 Odd Semester: Software Design, Software Engineering, Data and Information Management. Semester Even: Requirements Engineering.

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-	- Odd Semester: Database Systems, Information Systems an	ıd
	Technology, Data and Information Management, Softwar	re
	Engineering, Seminar 1.	

Name	Sarwosri, S.Kom. M.T
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2000. Master's degree (Computer Science), Institut Teknologi Bandung, Indonesia, 2006.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 Information System for Admission of New Students for East Java Province Office section (back end), 2020 Design and Implementation "Awasi" Application as a Communication Media for Parents and Teachers, 2019 Driver Behavior Scoring Application using Fusion Sensor, 2018 Gallon Water Sales Management Web Application using Just in Time Method, 2018 Custom Web Design using Open Graph Protocol on Web Case Study Informatics Engineering Department, 2018 Improved Business and Cost Estimation Accuracy of COCOMO II Based on Gaussian and BCO, 2017 Temporal Granularity Modeling to Find Relationships Between Indonesian Cultural Heritage Objects Using Ontology, 2017 Status Filtering Application and Comments on Facebook, 2016 Software Design for Monitoring Indonesian Cement Prices and Area Manager Performance on Mobile Devices with QR Code Technology, 2016 Rating Of Software Service Provider as a Services using Fuzzy AHP and Relative Service Ranking Value, 2015 Medical Record Software Design and Development using Windows Presentation Foundation Integrated with Daily Drink Application on Android Phone through Windows Communication Foundation, 2015
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	 Sarwosri, Umi Laili Yuhana, Siti Rochimah, "Measuring the Quality of the Development Process Academic System with E-GQM Method", 2020 Siti Rochimah, Sarwosri, "The improvement of software quality model for academic websites based on multi-perspective approach", 2016.
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Database Systems, Analysis and Design of Information Systems.
	 Odd Semester: Analysis and Design of Information Systems, Database Systems. Even Semester: Database Management, Software Project Management.

 Odd Semester: Database Systems, Analysis and Design of Information Systems. Even Semester: Database Management, Software Project Management.
 2018 Odd Semester: Database Systems, Analysis and Design of Information Systems. Even Semester: Information System Analysis and Design, Database
Management, Software Project Management. 2019 - Odd Semester: Database Management, Software Project Management, Database System.
 Even Semester: Information System Analysis and Design, Database Management. 2020 Odd Semester: Software Project Management.

Name	Rizky Januar Akbar, S.Kom., M.Eng.
Position	Assistant Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2008. Master's degree (Master of Engineering), Ritsumeikan University, Japan, 2012.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 E-learning Platform for Learning Web Programming using the Concept of Progressive Web Apps, 2017 Design and Build a Chat Application on the Android Platform with Input Media in the Form of Canvas and Shareable Canvas to Work in One Canvas Online, 2017 Functional Suitability Measurement using Goal-Oriented Approach based on ISO/IEC 25010 for Academics Information System, 2017 Design and Build Bump Detection System using Android Smartphone with Accelerometer, 2016 Design and Build a Web-Based Modular Academic Information System Framework with a Model-View-Controller Hierarchical Architecture Pattern, 2016 Poverty classification using Analytic Hierarchy Process and k-means clustering, 2016 Design and Build Applications for Poverty Level Mapping Mobile Device-Based Society, 2016 Design and Build a Programming E-Learning System on the Detection Module Program Code Plagiarism and Student Feedback System, 2017 Identification of Refactorization Opportunities in God Class Cases Based on Similarity Concept, 2017 Design and Build an Online Auction Application (E-Auction) based on Android Mobile Devices, 2017 Application of design patterns and quality measurement on academic information systems, 2018 Measuring performance efficiency of application applying design patterns and refactoring method, 2018

Industry collaborations over the last 5 years Patents and proprietary rights Important publications over the last 5 years	 13. Investigation of SQL Clone on MVC-based Application, 2018 14. Analyzing the Effect of Design Patterns on Software Maintainability: A Case Study, 2018 15. Refactoring the Anemic Domain Model using Pattern of Enterprise 16. Application Architecture and its Impact on Maintainability: A Case Study, 2019 17. Assessing the Impact of Enterprise Software Design Patterns on Maintainability: A Case Study, 2019 None. None.
Activities in specialist bodies over the last 5 years	 2015 - Odd Semester: Object Oriented Programming, Topics in Programming Languages, Software Construction. 2016 - Odd Semester: Software Construction, Object Oriented Programming, Programming Fundamentals Event: Web Programming, Software Architecture. 2017 - Odd Semester: Software Construction, Object Oriented Programming Event Web Programming, Software Architecture. 2018 - Odd Semester: Software Construction, Web Programming, Object Oriented Programming Even Semester: Software Architecture, Framework Based Programming. 2019 - Odd Semester: Object Oriented Programming, Framework Based Programming, Software Construction, - Even Semester: Software Architecture, Framework Based Programming. 2020 - Odd Semester: Object Oriented Programming, Software Construction.

Area of Expertise: Graphics, Interaction, and Game

Name	Dr.Eng.Darlis Herumurti S.Kom., M.Kom.
Position	Assistant Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2001. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2010.
	- Doctoral degree (Engineering), Kumamoto University, Japan, 2014.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Early Detection Application of Bone Fractures using Image Analysis of Dental Panoramic Radiographs, 2015 Summary of Indonesian News Multi Documents Based on Twitter Data Trending Issues with Non-Trivial Event Detection as Keyword Selection, 2015 Software for Classification of Indonesian Traditional Fabric Motifs, 2015 Game Development of Insect Phobia Therapy using Augmented Reality Technology on Android Devices, 2016 Multi Document Summary of Indonesian News Based on Twitter Data Trending Issues with Non-Trivial Event Detection as Keyword Selection, 2016 Software for Classification of Indonesian Traditional Fabric Motifs, 2016 Design And Implementation of "Termo": Intelligent Devices based on The Internet of Things (IoT) As Effort to Save Electricity in the Environment of ITS Information Engineering Department, 2017 Road Damage Detection System through Photo Images for Mobile-Based Road Infrastructure Repair Information, 2018 Design and Implementation of "Termo" Internet-Based Smart Devices as an Effort to Save Electric Power in the ITS Informatics Department, 2018 Utilization of Virtual Reality, Augmented Reality and Game Technology to Support Phobia Education and Therapy, 2018 Intelligent Decision-Making System to Determine Answers to Text Questions in Educational Game Applications Using the Human Experience Learning Method Approach and Natural Language Processing, 2019 Recognition of Traditional Fabric Imagery Through Smartphone Cameras Using Features Invariant to Rotation, Scale, and Exposure, 2019 Utilization of Virtual Reality, Augmented Reality and Game Technology to Support Phobia Education and Therapy, 2019 The Effect of Point of View on Virtual Reality Experiences: Tethered View vs. First-person View, 2019 Implementation of User Centered Design in the "Halal Check" Application to Support Automatic Identificat
	Research at LPPM ITS, 2019 17. Information System for Archiving Document Reporting Research and Community Service at DRPM ITS, 2020

	 Communication Protocol for Geolocation-based Market Workshop Generation and Data Mining for Mitigation of the Spread of COVID-19, 2020 SiNinja Development: Organizational and Official Performance Monitoring System in ITS Environment for Business Intelligence-Based Program Management and Control, 2020 Intelligent Decision-Making System to Determine Answers to Text Questions in Educational Game Applications Using the Human Experience Learning Method Approach and Natural Language Processing, 2020
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 Vehicle detection on images from satellite using oriented fast and rotated brief, 2017 Robot motion control using the emotiv EPOC EEG system, 2018 Local binary pattern method and feature shape extraction for detecting butterfly image, 2018
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Virtual Reality and Augmentation, Topics in Game Development, Topics in Data Mining, Topics in Human-Computer Interaction
	 2016 Odd Semester: Topics in Game Development, Digital Image Processing, Virtual Reality and Augmentation Even Semester: Programming Fundamentals, Computational Intelligence, Artificial Intelligence, Topics in Virtual Reality and Augmentation
	 2017 Odd Semester: Virtual Reality and Augmentation, Topics in Data Mining, Data Structures Even Semester: Computer Graphics, Artificial Intelligence
	 2018 Odd Semester: Topic in Data Mining, Seminar 1, Topic in Human and Computer Interaction Even Semester: Smart Game, Seminar 2, Artificial Intelligence
	 Odd Semester: Topics in Human and Computer Interaction, Computer Graphics, Computational Intelligence Even Semester: Smart Games, Topics in Game Development, Virtual Reality, and Augmented Reality, Seminar 2, Artificial Intelligence
	2020 - Odd Semester: Computer Graphics, Topics in Human-Computer Interaction

Name	Hadziq Fabroyir, S.Kom., Ph.D.
Position	Assistant Professor
Academic career	 Bachelor's degree (Informatics), Institut Teknologi Sepuluh Nopember, Indonesia, 2008. Doctoral degree (Computer Science and Information Engineering), National Taiwan University of Science and Technology, Taiwan, 2018.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Development of myITS Research MBKM as a Facility to Support Kampus Merdeka Program, 2021 Development of Immersive Media as an Experiment Innovation in Waste Treatment Virtually, 2021 Development of Information System to Manage Incentives for Supervising Undergraduate Thesis to Improve Academic Article Outcome in ITS, 2021 Communication Protocol to Generate Geolocation- and Data-mining-based Marketplaces to Mitigate the Spreadth of COVID-19, 2020 Design of User Interface and Experience for Marketplace System during Pandemic Based on Messaging's Upload Data, 2020 AR-Geometry: Application for Learning Geometry Based on Markerless Augmented Reality to Optimize Lesson Absorption According to Student Learning Style, 2020 Information System for Archiving Reports of Research and Community Services in ITS, 2020 Informatic Open Library Systems: Design and Development of Integrated Library Information System at Department of Informatics, 2019 The Effect of Point of View on Virtual Reality Experience: Tethered View vs. First-person View, 2019
Industry collaborations over the last 5 years	None
Patents and proprietary rights	 myITS WorkTime: Application to Track ITS Staff's Working Time and Location myITS Single Sign-On (SSO): Application for Identity Access Management (IAM) to Provide Authentication and Authorization Services for Users in ITS
Important publications over the last 5 years	 Mixed Reality Application Prototype to Explore the Real World in Real Time Through Third Person Point of View <i>Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020</i> Real-time Landscape Generation in Games Using Parallel Procedural Content <i>Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020</i> Tachyon: Multiplatform Rhythm Game with Automatic Beatmap Generation <i>Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020</i> AUGGO: Augmented Reality and Marker-based Application for Learning Geometry in Elementary Schools <i>Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020</i> Augmented Reality for 3D House Design Visualization from Floorplan Image <i>Published in Proceedings of the 6th International Conference on</i>

	Electrical Engineering and Informatics (ICEEI) on October 27, 2020 6. Multitouch Interface is not Good for Spatial Navigation in Virtual Reality Published in Proceedings of International Conference on Information & Communication Technology and System (ICTS) in 2019 7. Navigation in virtual environments using head-mounted displays: Allocentric vs. egocentric behaviors Published in Computers in Human Behavior in March 2018
Activities in specialist bodies over the last 5 years	 2018 Even Semester: Linear Algebra, Numerical Method, Programming Basics 2019 Odd Semester: Computer Graphics, Topics on Games, VR, AR. Even Semester: Human-Computer Interaction, Computer Graphics
	 2020 Odd Semester: Human-Computer Interaction, Computer Graphics, Augmented and Virtual Realities Even Semester: Human-Computer Interaction
	2021 - Special Program: AWS Cloud Foundation, Azure Cloud Infrastructure

Name	Imam Kuswardayan, S.Kom., M.T.
Position	Assistant Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2001. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2009.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Planning and Development of the Multiplayer Friendship Game "SIMABA" for New Students, 2016 Mobile Device-Based Community Poverty Mapping Application, 2016 Design and Implementation of "Termo": Intelligent Devices Based on Internet of Things (IoT) as Effort to Save Electricity in the Environment of ITS Informatics Engineering Department, 2017 Design: "Halal Text" as Halal Product Introduction Innovation based on Name Text Input Through Android Smart Device Cameras using Optical Character Recognition (OCR) Technology, 2017 Evaluation of Pattern Recognition Images in OCR (Optical Character Recognition) Technology for La-Text Applications: Halal Detection Text, 2018 Utilization of Virtual Reality, Augmented Reality and Game Technology to Support Phobia Education and Therapy, 2018 Road Detection System Through Photo Images for Mobile-Based Road Infrastructure Repair Information, 2018 Design and Implementation of "Termo" Internet-Based Smart Devices as an Effort to Save Electric Power in the ITS Informatics Department, 2018 Utilization of Virtual Reality, Augmented Reality and Game Technology to Support Phobia Education and Therapy, 2019 The Effect of Point of View on Virtual Reality Experiences: Tethered

	 View vs. First-person View, 2019 Development of Data Collection Information Systems for Supporting Research at LPPM ITS, 2019 Information System for Archiving Document Reporting Research and Community Service at DRPM ITS, 2020 Market Workshop System User Experience and Interface Design in the Midst of a Pandemic Based on Instant Messaging Application Upload Data, 2020 Geolocation-based Market Workshop Generation Communication Protocol and Data Mining for Mitigation of the Spread of COVID-19, 2020
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 Dynamic game balancing implementation using adaptive algorithm in mobile-based Safari Indonesia game, 2018 English education game using non-player character based on natural language processing, 2019
	 3. Survival education for user on unknown islands using simulation games, 2019 4. Design and implementation of educational game to improve arithmetic abilities for children, 2019 5. The second Air Conditions of Controller Lettered design Transporters
	 5. Termo: Smart Air Conditioner Controller Integrated with Temperature and Humidity Sensor, 2019 6. Implementation of Artificial Ant Colony Algorithm (AACA) in dynamic labyrinth generation for android, 2019 7. Development of First-Person Shooter Game with Survival Maze Based
	 7. Development of First-Ferson Shooter Game with Survival Maze Based on Virtual Reality, 2020 8. Real-time Landscape Generation in Games Using Parallel Procedural Content, 2020 9. Tachyon: Multiplatform Rhythm Game with Automatic Beatmap Generation, 2020
Activities in specialist bodies over the last 5 years	 2016 Odd Semester: IGS Special Topics, Topics in Game Development, Database Systems, Game Systems Even Semester: Game Development Techniques, Web Programming, Database Management
	 2017 Odd Semester: Game Systems, Database Systems, Information Systems and Technology, IGS Special Topics Even Semester: Game Development Techniques, Database Management, Web Programming
	 2018 Odd Semester: Game Development Techniques, Introduction to Game Development, Database Systems Even Semester: Human and Computer Interaction, Game System, Database Management
	 2019 Odd Semester: Database System, Game Development Techniques Even Semester: Computer Algorithm and Programming, Game System

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	- Odd Semester: Database System, Game Development Techniques
	- Even Semester: Computer Algorithm and Programming, Game System

Name	Anny Yuniarti, S.Kom., M.Comp.Sc.
Position	Associate Professor
Academic career	- Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2003.
	- Master's degree (Computer Science), The University of Western Australia, Australia, 2008.
Employment	Lecturer at Department of Informatics, Faculty of Intelligent and Informatics
	Technology, Institut Teknologi Sepuluh Nopember.
Research and development	1. 2020 - 2021: Member, Research project: 3D Object Reconstruction of Single Images using Learning-based Methods.
projects over the last 5 years	2. 2017 - 2019: Member, Research project: Virtual Reality, Augmented
last 5 years	Reality and Game Technology for Supporting Education and Phobia Therapy.
	3. 2018: Principal Investigator, Research project: Image Analysis using Pattern Recognition on the Optical Character Recognition of the La-text
	 Application (Halal Detection using Text). 4. 2017: Principal Investigator, Research project: "Halal Text" Application Design for Halal Product Recognition using Android Smartphone Camera and Optical Character Recognition (OCR) Technology.
	5. 2017-2018: Member, Research project: Design and Implementation of "Termo" Application: An IoT-based Smart Device as a means for Electricity Reduction Effort in the Department of Informatics ITS.
	6. 2017: Member, Research project: Development of Hajj Simulation Game.
	7. 2016: Member, Research project: Design and Development of a Multiplayer Friendship Simulation Game "SIMABA" for First Year College Students.
	8. 2016: Member, Policy Study: Information Technology Policy for Achieving Smart Campus Environment in ITS.
	9. 2015: Member, Research project: Development of an Automatic Fish Classification System at PT. Aneka Tuna Indonesia.
	10. 2015: Member, Research project: Early Detection Application of Bone Fractures Using Image Analysis of Dental Panoramic Radiographs.
Industry collaborations over the last 5 years	None
Patents and proprietary rights	MyITS SSO: an Identity Access Management (IAM) at ITS, 2020
Important	1. A 3D template-based point generation network for 3D reconstruction
publications over	from single images. A Yuniarti , AZ Arifin, N Suciati. Applied Soft
the last 5 years	Computing, 107749, 2021.
1000 0 J 2010	2. Image Classification Performance Evaluation for 3D Model
	Reconstruction. A Yuniarti , N Suciati, AZ Arifin, 2020 International
	Conference on Radar, Antenna, Microwave, Electronics, and
	Telecommunications (ICRAMET), 2020.
	3. Performance of Contrast-limited AHE in Preprocessing of Face Recognition with Training Image under Various Lighting Conditions. B Nugroho, A Yuniarti . 2020 6th Information Technology International Seminar (ITIS), 167-171. 2020.

- 4. Combining of Extraction Butterfly Image using Color, Texture and Form Features. DSY Kartika, D Herumurti, B Rahmat, A Yuniarti, H Maulana, FT Anggraeny. 2020 6th Information Technology International Seminar (ITIS), 98-102, 2020.
- 5. Facial Expression Recognition on Video Data with Various Face Poses Using Deep Learning. AF Nafis, DA Navastara, **A Yuniarti**. 2020 12th International Conference on Information Technology and Electrical Engineering (ICITEE), 2020.
- 6. Effect of Number of Face Images based on Illumination Variation in the Training Process on Face Recognition Results. B Nugroho, **A Yuniarti**, EY Puspaningrum. International Conference on Information Technology and Business (ICITB), 287-295, 2019.
- 7. Termo: Smart Air Conditioner Controller Integrated with Temperature and Humidity Sensor. RR Hariadi, A Yuniarti, I Kuswardayan, D Herumurti, S Arifiani, AA Yunanto, 2019 12th International Conference on Information & Communication Technology and System (ICTS), 2019.
- 8. A review of deep learning techniques for 3D reconstruction of 2D images. **A Yuniarti**, N Suciati. 2019 12th International Conference on Information & Communication Technology and System (ICTS), 2019.
- 9. Overcoming glossophobia based on virtual reality and heart rate sensors. D Herumurti, **A Yuniarti,** P Rimawan, AA Yunanto. 2019 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT), 2019.
- 10. Converting image into bas reliefs using image processing techniques. N Suciati, MT Baihaqi, H Tjandrasa, AZ Arifin, C Fatichah, A Yuniarti, et al., Journal of Physics: Conference Series 1196 (1), 012037, 2019.
- Implementation of Reconstruction Filter to Create Motion Blur Effect in Urho3D Game Engine. A Yuniarti, RR Hariadi, YUI Syihab. 2018 International Conference on Computer Engineering, Network and Intelligent Multimedia (CENIM), 2018.
- 12. Ensemble method for indonesian twitter hate speech detection. MA Fauzi, A Yuniarti. Indonesian Journal of Electrical Engineering and Computer Science vol 11 no 1, 2018.
- Detection of Branching in Trabecular Bone Using Multiscale COSFIRE
 Filter for Osteoporosis Identification. RC Wihandika, AZ Arifin, A
 Yuniarti. Proceedings of the 4th International Conference on Frontiers
 of Educational Technologies, 2018.
- 14. Arabic book retrieval using class and book index-based term weighting. MA Fauzi, AZ Arifin, A Yuniarti. International Journal of Electrical and Computer Engineering 7 (6), 3705, 2017.
- 15. Resize My Image: A mobile app for interactive image resizing using multi operator and interactive genetic algorithm. **A Yuniarti,** S Anggara, B Amaliah. 2016 International Conference on Information & Communication Technology and Systems (ICTS), 2016.

Activities in specialist bodies over the last 5 years

Teaching Activities

2015

- Odd Semester: Computer Graphics

2016

- Odd Semester: (1) Computer Graphics, (2) Computer Vision
- Even Semester: (1) Human Computer Interaction, (2) Algorithms and Computer Programming

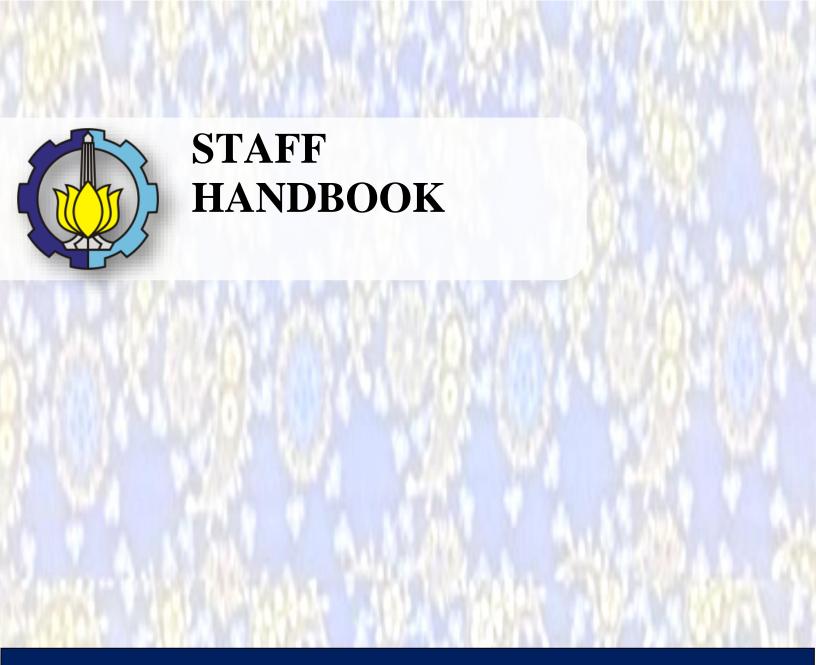
2017

-	Odd Semester: (1) Computer Graphics, (2) Computational Intelligence Even Semester: (1) Human Computer Interaction, (2) Artificial Intelligence
201	
Rev	viewer of Academic Journal Papers:
	- IEEE Transactions on Industrial Informatics, 2019
	- Kinetik Journal, 2021
	Bulletin of Electrical Engineering and Informatics, 2021

Name	Wijayanti Nurul Khotimah, S.Kom., M.Sc.
Position	Assistant Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2008. Master's degree (Computer Science), National Taiwan University of Science and Technology, Taiwan, 2011.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Predicting Survival of Cervical Cancer Based on Support Vector Machine and Bayesian Survival Analysis, 2015 (as team member) Development of Automatic Tuna Fish Classification System, 2015 (as team member) Development of Automatic Sign Language Recognition for Deaf People, 2015 (as team leader) Sign Language Recognition System by Using Kinect Technology and Rule-based Neural Network Algorithm, 2016 (as team leader) Deep Learning Large Image Data Retrieval, 2017 (as team member) Integration between Static Feature and Dynamic Feature for Indonesian Sign Language Recognition System, 2017 (as team leader) Indonesian Sign Language Recognition System by Using Deep Learning Method, 2018 (as team leader) Effectiveness of Virtual Reality Technology, Augmented Reality and Game to Support Educational and Phobia Therapy, 2018 (as team member) Facial Recognition on Video Data for Room Control, 2018 (as team member)
Industry collaborations	None None
Patents and proprietary rights	None
Important publications over the last 5 years	 Sitting to Standing and Walking Therapy for Post-Stroke Patients using Virtual Reality System, 2015 Tuna Fish Classification using Decision Tree Algorithm and Image Processing Method, 2015 Combining Decision Tree and Back Propagation Genetic Algorithm Neural Network for Recognizing Word Gestures in Indonesian Sign Language using Kinect, 2017 Dynamic Indonesian Sign Language Recognition by Using Weighted K-Nearest Neighbor, 2017

Name	Siska Arifiani, S.Kom., M.Kom.
Position	Lecturer
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2013. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2016.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Design and Implementation of Secure Virtual Class System to Support Online Learning, 2020 Design and Implementation Automatic Software Testing Mechanism by using Soft Computing and Gray Box Technique, 2020 AR-Geometry: A Learning Media that Implements Marker Less Augmented Reality to Optimize the Material Understanding based on Student Learning Style, 2020. The Development of myITS Research MBKM as Facility to Help "Kampus Merdeka" Program, 2021. The Development of Immersive Media as Innovative Technology in Virtual Waste Treatment Technology Practicum, 2021. The Development of IoT (Internet of Things) and Big Data Technology for Making Remote Electricity Monitoring & Control Systems to

	Support Energy Saving Policies at ITS
Industry collaborations over the last 5 years	None
Patents and proprietary rights	Game SIJI Simulasi Haji sebagai Inovasi Belajar Tatacara Pelaksanaan Ibadah Haji dengan Benar (https://pdki-indonesia.dgip.go.id/detail/EC00201855326?type=copyright&keyword=Simulasi+Haji)
Important publications over the last 5 years	 AUGGO: Augmented Reality and Marker-based Application for Learning Geometry in Elementary Schools, 2020 International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) Development of First-Person Shooter Game with Survival Maze Based on Virtual Reality, 2020 6th Information Technology International Seminar (ITIS) Mixed Reality Application Prototype to Explore the Real World in Real Time Through Third Person Point of View, 2020 International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) A Literature Review for Non-player Character Existence in Educational Game, Cyber Physical, Computer and Automation System: A Study of New Technologies 2021 The Implementation of Artificial Intelligence in Geometry Validation for Psychomotor Aspect Assessment, International Conference on Educational Assessment and Policy (ICEAP 2020)
Activities in specialist bodies over the last 5	2019 - Even Semester: Human Computer Interaction
years	 Odd Semester: Basic Programming, Database Management Even Semester: Introduction of ICT, Human Computer Interaction, Computer Animation and 3D Modeling



MAGISTER OF INFORMATICS (MIP) PROGRAM DEPARTMENT OF INFORMATICS

FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY INSTITUT TEKNOLOGI SEPULUH NOPEMBER

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Bagus Jati Santoso, S.Kom., Ph.D.	51
Dr. Baskoro Adi Pratomo S.Kom., M.Kom.	52
Area of Expertise: Programming Algorithm	54
Dr. Yudhi Purwananto, S.Kom., M.Kom	54
Dr. Diana Purwitasari, S.Kom., M.Sc.	54
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Area of Expertise: Software Engineering	58
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Area of Expertise: Applied Modeling and Computing

Name	Prof. Dr. Ir. Joko Lianto Buliali, M.Sc.
Position	Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1991. Master's degree (Computer Science), UMIST and the Victoria University of Manchester, Indonesia, 1995. Doctor's degree (Computer Science), UMIST and the Victoria University of Manchester, 1998.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	
	 17. FCM and PSO-SVR Hybrid Method for Traffic Flow Data Prediction, 2015 18. Identification of Gaussian Mixture Model Optimal Parameters for Speaker Identification in Noise Environments using Endpoint Detection Residues, 2015 19. Strategic Planning of Information Systems/Information Technology at Nusa Cendana University, 2015

	20. Service Desk evaluation using Six Sigma and ITIL V3 approaches at
	PT XYZ, 2015
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 Ina-BWR: Indonesian bigram word rule for multi-label student complaints, 2019 Enhancing the Performance of Smote Algorithm by Using Attribute Weighting Scheme and New Selective Sampling Method for Imbalanced Data Set, 2019 Text Based Approach for Similar Traffic Incident Detection from Twitter, 2018 Vehicle Detection on Images from Satellite using Oriented Fast and Rotated Brief, 2017 A Hybrid Fuzzy Morphology and Connected Components Labeling Methods for Vehicle Detection and Counting System., 2016 RANDSHUFF: An Algorithm to Handle Imbalance Class for Qualitative Data, 2016
Activities in specialist bodies over the last 5 years	 Odd Semester: Information Systems and Technology, Topics in Optimization Engineering, Seminar 1, Dissertation - Research 2, Dissertation - Research 1, Modeling and Simulation, Probability and Statistics
	 Odd Semester: Information Systems and Technology, Modeling and Simulation, Probability and Statistics, Topics in Data Mining Even Semester: Information Systems and Technology, Topics in Modeling and Simulation, Research Methodology, Mathematics Informatics, Multivariate Data Analysis
	 Odd Semester: Probability and Statistics, Modeling and Simulation, Seminar 1, Information Systems and Technology, Thesis Even Semester: Information Systems and Technology, Seminar 2, Research Methodology, Topics in Modeling and Simulation, Mathematics Informatics, E-Business
	 Odd Semester: Numerical Computing, Topics in Modeling and Simulation, Information Systems and Technology, Thesis – Methodology Even Semester: Information Systems and Technology, Topics in Time Series Data Analysis, Research Methodology, Probability and Statistics
	 Odd Semester: E-Business, Information Systems and Technology, Numerical Computing, Research Methodology and Philosophy of Science, Topics in Modeling and Simulation Even Semester: Research Methodology, Topics in Time Series Data Analysis, Information Systems and Technology, Simulation Modeling, Probability and Statistics, Multivariate Data Analysis

ſ	2020	0
	-	Odd Semester: Linear Algebra, Numerical Computing, Information
		Systems and Technology, Probability and Statistics, Research
		Methodology and Philosophy of Science

Name	Dr. Ahmad Saikhu, S,Si., M.T.
Position	Associate Professor
Academic career	 Bachelor's degree (Statistics), Institut Teknologi Sepuluh Nopember, Indonesia, 1994. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2000. Doctor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2019.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical an Informatics Technology
Research and development projects over the last 5 years	 Correlation and Symmetrical Uncertainty-Based Feature Selection for Multivariate Time Series Classification, 2019 Spatio-Temporal Recurrent Neural Networks Modeling for Number of Users Prediction on Wireless Traffic Networks, 2020 Non-Linear Spatio-Temporal Input Selection for Rainfall Forecasting Using Recurrent Neural Networks, 2018 Rainfall Forecasting by using Autoregressive Integrated Moving Average, Single Input and Multi Input Transfer Function, 2017 Mobile Application for Scheduling of Medical Staff in Emergency Condition using Integer Programming, 2015 Improving ARIMA Forecasting Accuracy using Decomposed Signal on PH and Turbidity at SCADA Based Water Treatment, 2020 Generalized Regression Neural Network for Predicting Traffic Flow, 2016 Intelligent Method for Dipstick Urinalysis using Smartphone Camera, 2015 Effectiveness Analysis of Service System Based on Visit Patterns to Improve the Efficiency of Customer Service Queuing System, 2021 Predicting COVID-19 Confirmed Case in Surabaya using Autoregressive Integrated Moving Average, Bivariate and Multivariate Transfer Function, 2020 Prediction of Multivariate Time Series Data Using Echo State Network and Harmony Search, 2019 A Fast Dynamic Assignment Algorithm for Solving Resource Allocation Problems, 2021
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 Correlation and Symmetrical Uncertainty-Based Feature Selection for Multivariate Time Series Classification, 2019 Spatio-temporal Recurrent Neural Networks Modeling for Number of Users Prediction on Wireless Traffic Networks, 2020
Activities in specialist bodies over the last 5 years	 Odd Semester: Probability and Statistics, Time Series Data Analysis Even Semester: Multivariate Data Analysis, Predictive Analytics and Machine Learning, Simulation

2020
- Odd Semester: Numerical Computation, Discrete Mathematics

Name	Dr. Bilqis Amaliah, S.Kom., M.Kom.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1999. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2007. Doctoral degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2020.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
	Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Early Warning System Anomaly Ph Sensor Readings and Turbidity in Water Treatment Plants, 2020. Development of Initial Basic Feasible Solution Method using Heuristic Approach to Achieve Optimal Solution of Transportation Problem, 2020 Halal Food Product Study: Halal Assurance Assessment Model, Traceability, and Logistics, 2018 Development of Neural Networks Method in Multivariate Time Series Data Classification, 2018 Preparation of Operational Control Planning Application for PDAM Surya Sembada Surabaya City, 2017
Industry collaborations	None
over the last 5 years	TVOIC
Patents and	BCE Application for Finding Initial Basic Feasible Solution in
proprietary rights	Transportation Problem, EC00202056261, 4 December 2020
Important publications over the last 5 years	 A New Heuristic Method of Finding the Initial Basic Feasible Solution to Solve the Transportation Problem, 2020 Total Opportunity Cost Matrix-Minimal Total: A New Approach to Determine Initial Basic Feasible Solution of a Transportation Problem, 2019 Finding the Shortest Paths among Cities in Java Island using Node Combination based on Dijkstra Algorithm, 2016 Blood Traceability System for Indonesian Blood Supply Chain, 2015
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Numerical Computing, Computational Intelligence, Topics in Optimization Engineering, Discrete mathematics 2016 Odd Semester: Numerical Computing, Probability and Statistics, Computational Intelligence Even Semester: Linear Algebra, Artificial intelligence
	2017 - Odd Semester: Discrete mathematics, Numerical Computing 2020 - Odd Semester: Linear Algebra, Operations Research

Area of Expertise: Architecture and Computer Networking

Name	Prof. Ir. Supeno Djanali, M.Sc., Ph.D.
Position	Professor
Academic career	 Bachelor's degree (Computer Engineering), Institut Teknologi Sepuluh Nopember, Indonesia, 1974. Master's degree (Computer Science), University of Wisconsin -
	 Madison, United States, 1978. Doctoral degree (Computer Science), University of Wisconsin - Madison, United States, 1984.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Real Time Train Monitoring using Google Maps, 2015 Adaptive Gateway Discovery Hybrid on AODV Internet Network Using Fuzzy Algorithm, 2015 Route Efficiency in Dynamic Source Routing Protocols Using Path
	Aware-Short, 2015 4. Increasing the capacity of the secret data using DEpixels blocks and adjusted RDE-based on grayscale images, 2015
	5. A conceptual information of technology framework to support rice farming in Timor Leste, 2015
	6. Development of Human Mental State Recognition System Software Based on EEG Brain Activity Waves, 2016
	 7. Smart System for Emergency Vehicle Using Android, 2016 8. Electronic Voting: Means for Security and Validity of General Elections in Indonesia, 2016
	9. Classification of EEG Signals Using Single Channel Independent Component Analysis, Power Spectrum, and Linear Discriminant Analysis, 2016
	10. Design and development of voting data security for electronic voting (E-Voting), 2016
	11. Feature extraction using combination of intrinsic mode functions and power spectrum for EEG signal classification, 2016
	12. Improved Information Retrieval Performance in SQL Databases Using Data Adapters with Bigdata Case Study, 2017 12. Performance Analysis and Study of Engraption Methods on Web Board
	 13. Performance Analysis and Study of Encryption Methods on Web-Based Electronic Mail Applications, 2017 14. Blackhole Attack Detection Analysis on Mobile Ad-Hoc Network
	Using Genetic Algorithm Methods, 2017 15. Classification of P300 in EEG Signals for Disabled Subjects using
	Singular Spectrum Analysis, 2017 16. AODV-PNT Performance Study with Added Factor Number of
	Neighbor Nodes on VANET, 2018 17. Improved Information Retrieval Performance on SQL Database using
	Data Adapter, 2018 18. Audio Data Hiding using Octal Modulus Function Based Unsigned
	Integer Sample Values, 2018 19. An Improved Secret Message Capacity Using Modulus Function Based
	Color Image Data Hiding, 2018 20. Design and Build a Sharia Crowdfunding System to Minimize Riba,
	2019 21. Increasing accuracy and completeness of intrusion detection model
	using fusion of normalization, feature selection method and support

	vector machine, 2019
	22. Developing audio data hiding scheme using random sample bits with
	logical operators, 2019 22 Assessing Controld Pased Classification Models for Intrusion
	23. Assessing Centroid-Based Classification Models for Intrusion Detection System Using Composite Indicators, 2019
	24. An Optimum Clustered Grid-Based Particle Swarm Optimization to
	Enhance Efficiency Energy in Wireless Sensor Networks, 2019
	25. Improving the Capability of Reduced Difference Expansion based
	Digital Image Data Hiding., 2019
	26. Using Internet of Things Technology to Help the Learning Process in
	Schools, 2019
	27. Design and Build a Secure Virtual Class System to Support Online
	Learning, 2020
	28. Design and Build a Virtual Class System to Support the Online Learning
	Process, 2020
	29. Analyzing the performance of intrusion detection model using weighted
	one-against-one support vector machine and feature selection for imbalanced classes, 2020
	30. Development of Greedy Perimeter Stateless Routing (GPSR) with
	Overlay Network Concept on VANETs, 2020
	31. GCRFP-PAGE Replacement for Solid State Drive using Ghost-Cache,
	2020
Industry collaborations	
over the last 5 years	×
Patents and	None.
proprietary rights Important	Routing Optimization on Aodv_Ext Protocol using Link Expiration
publications over	Time (LET), 2015
the last 5 years	2. Routing Protocol Performance in Wireless Mesh Network Environment
·	with Combined Scalable Video Coding, 2015
	3. CORO: Graph-Based Automatic Intrusion Detection System Signature
	Generator for E-Voting Protection, 2015
	 4. Graph-based forensic analysis of web honeypot, 2016 5. Reliable Fault-Tolerant on Clustering-Based Wireless Sensor Network,
	2016
	6. Server Workload Model Identification: Monitoring and Control Tools
	for Linux, 2016
	7. Audio Data Hiding Based on Sample Value Modification using
	Modulus Function, 2016
	8. Implementation of NFC Technology on Smartphones as Authentication
	Agents in the E-Vote System, 2017 9. Implementation of the Overlay Network Concept on Greedy Perimeter
	Stateless Routing (GPSR) at VANETs, 2017
	10. Modification Of the Aody-Br Protocol using Link Expiration Time
	(Let) To Improve Link Stability in The Mobile Ad-Hoc Network
	_
	(Manet) Environment, 2017
	(Manet) Environment, 2017 11. Study of Greedy Perimeter Stateless Routing Performance Based on
	(Manet) Environment, 201711. Study of Greedy Perimeter Stateless Routing Performance Based on Overlay Network on VANET, 2018
	 (Manet) Environment, 2017 11. Study of Greedy Perimeter Stateless Routing Performance Based on Overlay Network on VANET, 2018 12. Vote Identification and Integrity of Ballot in Paper-Based E-Voting
	 (Manet) Environment, 2017 11. Study of Greedy Perimeter Stateless Routing Performance Based on Overlay Network on VANET, 2018 12. Vote Identification and Integrity of Ballot in Paper-Based E-Voting System, 2018
	 (Manet) Environment, 2017 11. Study of Greedy Perimeter Stateless Routing Performance Based on Overlay Network on VANET, 2018 12. Vote Identification and Integrity of Ballot in Paper-Based E-Voting
	 (Manet) Environment, 2017 11. Study of Greedy Perimeter Stateless Routing Performance Based on Overlay Network on VANET, 2018 12. Vote Identification and Integrity of Ballot in Paper-Based E-Voting System, 2018 13. Modify Route Discovery on Ad-hoc on-Demand Distance Vector

Transform, MLP, and Soft Margin SVM, 2018

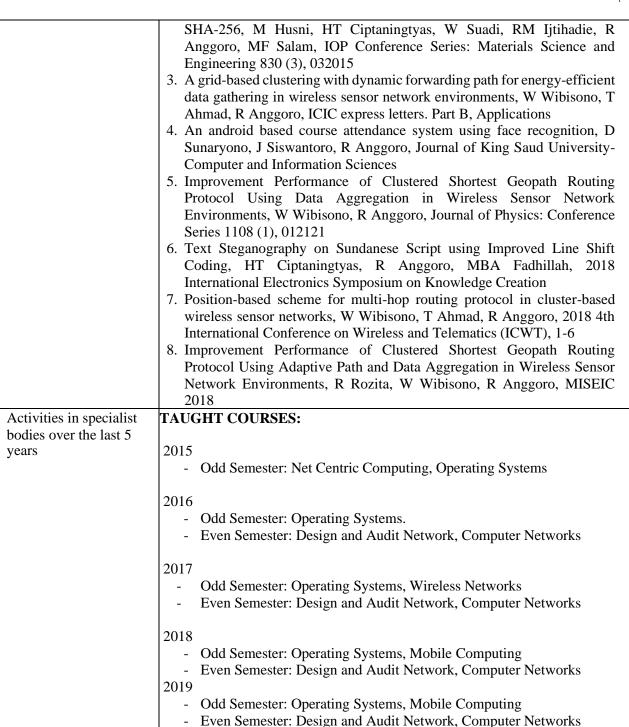
	15. Text Mining for Pest and Disease Identification on Rice Farming with Interactive Text Messaging, 2018
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Digital Systems, Seminar 1, Research Methodology and Philosophy of Science, Dissertation - Research 2, Network-Based Computing.
	 2016 Odd Semester: Network-Based Computing, Seminar 2, Research Methodology and Philosophy of Science, Digital Systems. Even Semester: Computer Organization, Topics in Wireless Networks, Research Methodology.
	 2017 Odd Semester: Digital Systems, Network-Based Computing, Research Methodology and Philosophy of Science. Even Semester: Topics in Wireless Networks, Research Methodology.
	 2018 Odd Semester: Research Methodology and Philosophy of Science, Network-Based Computing, Digital Systems, Computer Networks. Even Semester: Digital Systems, Research Methodology, Topics in Wireless Networks.
	 2019 Odd Semester: Network-Based Computing, Research Methodology and Philosophy of Science, Computer Organization. Even Semester: Digital Systems, Research Methodology, Topics in Wireless Networks.
	 2020 Odd Semester: Network-Based Computing, Research Methodology and Philosophy of Science, Computer Organization.

Name	Royyana Muslim I, S.Kom, M.Kom, Ph.D.
Position	Assistant Professor
Academic career	- Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2000.
	- Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2005.
	- Doctoral degree (Engineering), Kumamoto University, 2013.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and	1. Indoor Position Detection Using Arduino Microcontroller and Multi
development	Sensor, 2015
projects over the last 5 years	2. Portable Vehicle Exhaust Test Equipment with Arduino and Smoke Sensor, 2015
	3. Interactive Whiteboard and Instant Quiz for Multimedia Classroom Activity, 2015
	4. Survey on Handling Broadcast Storm Problems on AODV Routing Protocol at MANET, 2015
	5. Countermeasures against Attack Avoidance Techniques on Intrusion Prevention Systems, 2015
	6. Intrusion Detection System using N-Gram and Cosine Similarity, 2016

- 7. Survey of Clustering Routing Techniques Based on Mobility on Wireless Ad-hoc Networks, 2016
- 8. Rsync and Rdiff implementation on Moodle's backup and restore feature for course synchronization over the network, 2016
- 9. Optimization of Replacement Strategy for Progressive Cache Method in Content Centric Networking (CCN), 2016
- Development of Authentication and Authorization Mechanisms for Config Management in the Case of Linux Container Based Shared Web Hosting, 2016
- 11. Hiding Secret Data by using Modulo Function in Quad Difference Expansion, 2016
- 12. Design a Transformation Mechanism for Data Security, 2016
- 13. Utilization of Four-Wheel Vehicle Traffic Density to Support Communication Reliability on In-City Ad-Hoc Networks, 2016
- 14. Proposed Information Technology Policy as an Umbrella to Realize ITS in one-hand in a Smart Campus Environment, 2016
- 15. Data Center Cloud Computing Power Optimization on High Performance Computing (HPC) Workloads with Realtime Predictive Scheduling, 2017
- 16. Edit Distance Weighting Modification using Phonetic and Typographic Letter Grouping over Homomorphic Encrypted Data, 2017
- 17. Multi Criteria Decision System for Distribution Provisioning and Resource Optimization using Analytical Hierarchy Process, 2017
- 18. A Mobile Crowdsensing Framework for Integrating Smartphone and Iot Devices to Cloud Computing Services, 2017
- 19. Implementation of Work Instruction as a Solution for Handling Critical IT Incidents in Units at ITS, 2017
- 20. Performance Study of Wireless Access in Vehicle Environment 802.11 p in Ad-Hoc on-Demand Distance Vector Routing (AODV) with Nakagami Propagation Model and Two Ray Ground, 2018
- 21. Oversight of Congestion Control Mechanisms on Transmission Control Protocols in Software Defined Networks, 2018
- 22. Data Replication using the Detection Controller Module to Prevent Bottlenecks in The Data Center, 2018
- 23. Development of Uploading Media Components to Support E-Learning in Dynamic Network Conditions, 2018
- 24. Query Dominates Continuous Top-k of Incomplete Data over Data Streams, 2018
- 25. Docker-Based Network Function Virtualization as a Learning Tool in Computer Networking Course, 2019
- 26. Analyzing the Effect of Block Size on Stego Audio Quality, 2019
- 27. Energy Aware Computing Offloading Framework for Mobile Crowdsensing Clusters Using the DMIPS Approach, 2019
- 28. Using Internet of Things Technology to Help the Learning Process in Schools, 2019
- 29. Data Security Method Development, 2019
- 30. Protection Methods to Improve Data Security on Computer Networks, 2019
- 31. Development of Adaptive Routing Mechanisms and Routing Hole Handling for Congestion Reduction and Improvement of Wireless Sensor Network Performance, 2019
- 32. Node Density-Based Approach to Energy Efficient Data Collection Protocol in Wireless Sensor Network Environment, 2020

	33. Hiding Data in Audio Files: An Alignment-based Approach to Improving Audio Quality Stego, 2020
	34. Security audit on cloud-based servers using AES-256 and SHA-256,
	2020 encrypted data 35. Development of the Load Balance Mechanism at SDN Data Plane Fat
	Tree using Modified Dijkstra Algorithm, 2020
	36. Development of Blackhole Attacks on AODV Routing Protocol, 2020
	37. Internet of Things User Oriented Wi-Fi Quality Analyzer, 202038. Evaluating the Performance of Fibbing Architectures in Hybrid
	Software Defined Networks, 2020
	39. Preparation of Activity Recommendations for Improving Information
	Security for Ten November Institute of Technology Students Based on NIST SP 800-50, 2020
	40. Development of Data Hiding Methods and Optimization of Intrusion
	Detection Systems on Computer Networks for Data Protection, 2020
Industry collaborations over the last 5 years	
Patents and	None
proprietary rights	
Important publications over	 Developing Electronic Mango Traceability in Indonesia, 2016 Detecting Malicious Activities in a Computer Cluster for Developing
the last 5 years	Dynamic Honeypot, 2018
	3. Design Virtual Machine Allocation Management in a Heterogeneous
Activities in	Hypervisor Environment, 2019 2015
specialist bodies	- Odd Semester: Operating Systems, Computer Organization, Network
over the last 5	Programming, Topics in Cloud Computing.
years	2016
	- Odd Semester: Operating Systems, Cloud Computing, Topics in
	Cloud Computing, Network Programming Even Semester: Distributed Systems, Information and Network
	Security, Cloud Computing.
	2017
	- Odd Semester: Operating Systems, Network Programming, Topics in
	Cloud Computing.
	- Even Semester: Topics in Network Design and Auditing, Cloud Computing, Distributed Systems, Information Security and Networks.
	2018
	- Odd Semester: Cloud Computing, Distributed Systems, Topics in
	Network Design and Auditing, Topics in Distributed Systems.
	- Even Semester: Topics in Cloud Computing, Network Programming.
	2019
	- Odd Semester: Seminar 1, Cloud Computing, Distributed Systems, Topics in Distributed Systems.
	- Even Semester: Topics in Cloud Computing, Seminar 2, Network
	Programming.
	2020
	- Odd Semester: Technology between Networks, Distributed
	Systems, Cloud Computing, Topics in Distributed Systems.

Name	Dr. Eng. Radityo Anggoro, S.Kom., M.Eng.Sc.
Position	Assistant Professor & Secretary of Financial Affairs
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2006. Master's degree (Engineering Science), National Taiwan University of Science and Technology, Taiwan, 2008. Doctorate's degree (Engineering), Kumamoto University, Japan, 2014.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 2021, as a member of research group, Development of Systems and Architectures Supporting Online Learning Technology 2021, as a leader of research group, Development of a Reactive Routing Protocol with Energy Efficiency in Mind 2021, as a leader of research group, Implementing the Reverse-AODV Protocol by Considering the Energy Consumption Factor at the Routing Stage at VANET 2021, as a member of research group, Development of Application of Physical Vulnerability Map of Building in Surabaya Due to Potential Recent Earthquake: A Multi-Scale Study 2021, as a member of research group, Antenna Configuration System Development to Increase AIS Receiver Range 2020, as a member of research group, Design and Build Miniature Intelligent Autonomous Vehicles 2020, as a member of research group, Development of Data Hiding Methods and Optimization of Intrusion Detection Systems on Computer Networks for Data Protection 2020, as a leader of research group, Development of On Demand Vector Ad-hoc Routing Protocol with Clustering and Ant Colony Methods on Vehicular Ad-hoc Networks 2020, as a member of research group, Design a Secure Virtual Class System to Support Online Learning 2020, as a member of research group, Optimization of Current Sensor Placement for Corrosion Detection in Water Pipelines 2019, as a member of research group, Informatic Open Library Systems: Design and Build Integrated Library Information Systems at the Informatics Department Library 2019, as a member of research group, Development of Online Attendance System with Face Matching and Digital Signature 2018, as a member of research group, Development of Data Aggregation and Delivery Protocols to Save Energy and Guarantee the Reliability of Data Delivery in Wireless Sensor Network Environments 2018, as a member of research group, Development of Online Attendance System with Face-
Industry collaborations over the last 5 years	
Patents and proprietary rights	None
Important publications over the last 5 years	 The development of a routing protocol based on Reverse-AODV by considering an energy threshold in VANET, NG Razafindrobelina, R Anggoro, AM Shiddiqi, 2021 IEEE International IOT, Electronics and Mechatronics Conference Security audit in cloud-based server by using encrypted data AES-256 and



- Odd Semester: Computer Networks

2020

Area of Expertise: Intelligent Information Management

Name	Prof.	Prof. Drs.Ec.Ir. Riyanarto Sarno,M.Sc,Ph.D.							
Position	Profe	Professor							
Academic career	- Ba	chelor's degree (Electrical Engineering), Institu	ıt Teknolo	gi Bandung,					
	Inc	donesia, 1983.							
	- Master's degree (Science), The University of New Brunswick, Canada,								
	19	1988.							
	- Do	- Doctor's degree (Computer Science), University of New Brunswick,							
	Ca	Canada, 1892.							
Employment	Lecti	urer, Department of Informatics, Faculty of Inte	elligent El	ectrical and					
	Infor	matics Technology							
Research and	No	Title of Research Projects	Years	Position					
development	1	Operasional Pengambilan Data Skrining	2021	Principal					
projects over the		Covid-19 menggunakan INOSEC19		Investigator					
last 5 years		(Operational Data Collection for Covid-19							
		Screening using INOSEC19)							
	2	Adopsi Prototipe Electronic Nose	2021	Principal					
		INOSEC19 untuk uji skrining COVID-19		Investigator					
		secara terbatas di lingkungan ITS							
		(Adoption of INOSEC19, an Electronic Nose							
		Prototype for a limited COVID-19 screening							
		test in the ITS environment)							
	3	Pengembangan Prototipe Uji Kalibrasi	2021	Principal					
		Electronic Nose INOSEC19 untuk Skrining		Investigator					
		Cepat Covid-19							
		(Development of INOSEC19, an Electronic							
		Nose Prototype of Covid-19 Rapid Detection,							
		for Calibration Test)							
		Pengembangan Electronic Nose Berbasis	2021-	Principal					
		Integrasi IOT Dan Komputasi Cloud untuk	2023	Investigator					
		Deteksi Covid-19 Menggunakan Keringat							
		Ketiak Pasien							
		(Development of Artificial Intelligence System for Brain Surgery Planning based on							
		Patient Medical Images)							
	5	Pengembangan Sistem Artificial Intelligence	2021-	Principal					
		untuk Perencanaan Bedah Otak Berdasarkan	2021-	Investigator					
		Citra Medis Pasien (Development of	2023	investigator					
		Artificial Intelligence System for Brain							
		Surgery Planning based on Patient Medical							
		Images)							
	6	Rapid Detection of COVID-19 through	2020-	Principal					
		Sweat Analysis by using an Electronic Nose	2021	Investigator					
	7	Pengembangan 3 Dimensi Akurat	2019-	Principal					
		Berdasarkan Citra Medis Anatomi dan	2022	Investigator					
		Morfologi Otak untuk Perencanaan Bedah							
		Saraf Otak (Developing 3D Brain							
		Anatomical Morphological Accurate							
		Generator (BAMAG) Based on Medical							
		Images for Planning Brain Surgery)							
	8	Pengembangan 3 Dimensi Generator	2019-	Principal					
		Manufaktur Aditif Akurat Berdasarkan Citra	2021	Investigator					
		Medis Untuk Perencanaan Bedah Tengkorak							
		Kepala Dan Rekonstruksi Tulang Wajah							

	_	_				
		(Developing Accurate	3D Additive			
		Manufacturing Generator	based on Medical			
		Images for Planning Cra	nioplasty Surgery			
	L	and Craniofacial Reconstr				
	9	Pengembangan Workflow	2020	Prin	cipal	
		Operasi Otak dan Kepala (Developing Visual		Inve	estigator
		Workflow for Brain and Ca				
	10		nic-Nose Untuk	2018-	Prin	cipal
		Deteksi Kemurnian	Daging Sapi	2020		estigator
		(Development of Elec	ctronic-Nose for			C
		Detecting Pork Adulteration				
	11	Pengembangan Mixed I	Reality Simulator	2019	Prin	cipal
		untuk Operasi Otak (Der	-		Inve	estigator
		Reality Simulator for Brain	n Surgery)			
	12	Sistem Enterprise Tangg		2017-	Prin	cipal
		(Business Process Aware 1		2019		estigator
Industry collaborations	No	Name of Collaboration	Hospital / Industr			Year
over the last 5 years	1	Research Collaboration:	Dr. Soetor			2021
	1	Perbedaan Hasil Analisis	Academic Gener			
		Bau Keringat Ketiak	Hospital			
		Menggunakan Alat i-Nose		1 D :		2021
	2	C-19 dan RT-PCR Pasien	Indrapura Hospita	ıl Partne	er	2021
		COVID-19 dan Non-				
		Covid-19 (Differences in				
		the Results of the Analysis				
		of Armpit Odor Sweat				
		Using the i-Nose C-19				
		and RT-PCR Equipment				
		for COVID-19 and Non-				
		Covid-19 Patients)				
	3	Research Collaboration:	A. Yani Islam	nic Partne	er	2021
		Perbandingan Antara	Hospital		-	
	4	Hasil Skrining Cepat	Jemursari Islam	nic Partne	er	2021
	Ι.	Covid-19 Melalui Bau	Hospital		-	- 3 - 1
	5	Keringat Ketiak	Navy Centr	ral Partne	er	2021
		Menggunakan Alat	•	Or.		
		Electronic Nose dengan	Ramelan			
		Hasil Swab PCR				
		(Comparison between the				
		Results of Covid-19 Rapid				
		Screening Through				
		Armpit Odor Sweat Using				
		an Electronic Nose with				
		PCR Swab Results)				
	6	Research Collaboration:	PT. Dem	po Indus	try	2021
		Pengembangan Prototipe	Metalindo	Partne	•	
		Uji Kalibrasi Electronic				
		Nose INOSEC19 untuk				
		Skrining Cepat Covid-19				
		(Development of				
		INOSEC19, an Electronic				
		Nose Prototype of Covid-				
		19 Rapid Detection, for				
		Calibration Test)				

	8 9	Research Collaboration: Rapid Detection of Covid-19 through Sweat Analysis by using an Electronic Nose Research Collaboration: Pengembangan 3 Dimensi Akurat Berdasarkan Citra Medis Anatomi dan Morfologi Otak untuk Perencanaan Bedah Saraf Otak	Dr. Acad Hosp PT. Caja	Soetomo lemic General	Partner	2021 2019 - 2023 2019 - 2023 2019
	11	(Developing 3D Brain Anatomical Morphological Accurate Generator (BAMAG) Based on Medical Images for Planning Brain Surgery)	CV	Dugg og 31 cl	Modestin	2023
	11	Research Collaboration : Pengembangan 3 Dimensi	CV.	Bumandhala Indonesia	Marketing Partner	2019
		Generator Manufaktur	Laja		1 41 (1101	2021
	12	Aditif Akurat Berdasarkan	Plast	<i>C</i> ,	Partner	2019
		Citra Medis Untuk Perencanaan Bedah	Divis	sion – Ingga		2021
		Tengkorak Kepala Dan		ersity Hospital		2021
	13	Rekonstruksi Tulang		RCMed	Partner	2019
		Wajah (Developing Accurate 3D				2021
		Additive Manufacturing Generator based on				
		Medical Images for				
		Planning Cranioplasty				
		Surgery and Craniofacial				
Patents and	No	Reconstruction Surgery) Title		Patents and	Status	Year
proprietary rights	110			Proprietary Rights	Status	1 Cal
	1	MODUL PEMOTONG 3 DIMENSI MODEL MENGGUNAKAN RAYCASTING		Computer Copyright	Granted	2021
	2	MODUL APLIKASI ELECTRONIC NOSE SIGI REPOSITORY UNTUK MENYIMPAN SINYAL B. KERINGAT KETIAK BERBASIS CLOUD		Computer Copyright	Granted	2021
	3	INOSEC19		Brand	Registered	2021
	4	PENENTUAN POSITIF DA NEGATIF PENYAKIT COVID-19 PDA PASIEN MENGGUNAKAN SISTEL ELECTRONIC NOSE		Paten	Registered	2021

			_	
	MELALUI BAU KERINGAT KETIAK			
5	SISTEM ELECTRONIC NOSE	Paten	Registered	2021
	UNTUK DETEKSI		8	
	KEMURNIAN DAGING SAPI			
	TERHADAP DAGING BABI			
6	ELECTRONIC NOSE UNTUK	Paten	Registered	2021
	SKRINING CEPAT			
	PENDERITA (POSITIF) ATAU			
	SEHAT (NEGATIF)			
	DARI PENYAKIT COVID-19			
	MENGGUNAKAN BAU			
	KERINGAT KETIAK			
7	BOX SISTEM ELECTRONIC	Industrial	Registered	2020
	NOSE	Design		
8	VIDEO VISUAL WORKFLOW	Video	Granted	2020
	DALAM BENTUK ANIMASI	Copyright		
	3 DIMENSI UNTUK KASUS			
9	CRANIOSYNOSTOSIS MODUL VISUAL	Video	Granted	2020
	WORKFLOW	Copyright	Grantea	2020
	BERDASARKAN MODEL	Copyright		
	PROSES BISNIS UNTUK			
	KASUS			
	CRANIOSYNOSTOSIS			
10	BASIS DATA TEKSTUAL	Database	Granted	2020
	IMAGE DIGITAL IMAGING	Copyright		
	AND COMMUNICATION IN	2.0		
	MEDICINE (DICOM) 3			
	DIMENSI OTAK			
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12	MODUL VIRTUAL REALITY	Computer	Granted	2020
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	WORKFLOW KASUS CRANIOSYNOSTOSIS			
	MENGGUNAKAN FILE			
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13	MODUL VIRTUAL REALITY	Computer	Granted	2020
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	WORKFLOW KASUS	1,7 8		
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	DICOM DARI CT-SCAN			
14	MODUL VIRTUAL REALITY	Computer	Granted	2020
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	COMMUNICATION IN			
	MEDICINE (DICOM) 3			
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18	MODUL APLIKASI PENGHALUSAN PERMUKAAN DARI OBJEK 3D IMPLAN	Computer Copyright	Granted	2020
19	MODUL APLIKASI PEMBENTUKAN MODEL IMPLAN MENGGUNAKAN RAY CASTING	Computer Copyright	Granted	2020
20	MODUL APLIKASI SIGNAL REPOSITORY UNTUK MENYIMPAN DATA SINYAL YANG DIPROSES DALAM ELECTRONIC NOSE	Computer Copyright	Granted	2020
21	APLIKASI DICOM 3D REPOSITORY UNTUK MENYIMPAN DIGITALIMAGING AND COMMUNICATION IN MEDICINE (DICOM) DALAMBENTUK 3 DIMENSI	Computer Copyright	Granted	2020
22	APLIKASI MULTIPLANAR 3D VIEWER UNTUK MENAMPILKANSAGITAL, KORONAL, DAN AKSIAL SECARA SINKRON	Computer Copyright	Granted	2020
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		BASE	D					
	26	PENEI VENT NUCL OTOM	JL APLIKASI NTUAN LOKASI RALINTERMEDIATE EUS (VIM) SECARA IATIS BERDASARKAN DDE GUIOT		puter right	Gra	anted	2020
	27	MODU EXPO MENC IMAG COMM MEDE	JL APLIKASI DICOM RTER UNTUK GEKSPOR DIGITAL ING AND MUNICATION IN ECINE (DICOM)KE KASI LAIN		puter /right	Gra	anted	2020
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	29	IMAG MENA GABU	JL FUSI MEDICAL E UNTUK AMPILKAN JNGAN GAMBAR DARI AGAI MODALITAS		puter right	Gra	anted	2020
	30			Computer G. Copyright		Gra	anted	2020
	31	APLIK MOBI UNTU	KASI "MOLEN" – LE ELECTRONIC NOSE IK DETEKSI KUALITAS NG SAPI		puter /right	Gra	anted	2019
Important	No	Year	Title and Authors		Vol/No)	Journa	ıl
publications over the last 5 years	1	2021 Riyanarto Sarno, Kelly Rossa Sungkono, Muhamma Taufiqulsa'di, Hendra Darmawan, Achmad Fahma Kuwat Triyana. Improving Efficiency for Discovering Business Processes Containing Invisible tasks Non-free Choice		ni, g	Accept	ed	Journal Data (S Q1)	_
	3	2021	Dewi Rahmawati, Riyana Sarno . Anomaly Detection using Control Flow Patter and Fuzzy Regression in H Container Handling	n rn Port	Vol. 33 Issue 1		Journal King Sa Univers Compu Informa Science (Scopu Journal	aud sity- ter and ation es s Q1)
	3	2021	Aziz Fajar, Riyanarto Sa Chastine Fatichah, Achma		In Pres	S	King Sa	

		Fahmi. Reconstructing and resizing 3D images from DICOM files		University- Computer and Information Sciences (Scopus Q1)
4	2021	Dedy Rahman Wijaya, Riyanarto Sarno, Enny Zulaika. DWTLSTM for Electronic Nose Signal Processing in Beef Quality Monitoring	Vol. 326	Sensors and Actuators B: Chemical (Scopus Q1)
5	2021	Riyanarto Sarno, Kuwat Triyana, Shoffi Izza Sabilla, Dedy Rahman Wijaya, Dwi Sunaryono, dan Chastine Fatichah. Detecting Pork Adulteration in Beef for Halal Authentication Using an Optimized Electronic Nose System	Vol. 8	IEEE Access (Scopus Q1)
6	2021	Irene RHT Tangkawarow, Riyanarto Sarno, Daniel Siahaan. Modeling Business Rule Parallelism by Introducing Inclusive and Complex Gateways in Semantics of Business Vocabulary and Rules.	Vol. 14, Issue 1	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
7	2021	Nabil Haidarrahman Pribadi, Riyanarto Sarno , Adhatus Solichah Ahmadiyah, Kelly Rossa Sungkono. Semantic Recommender System Based on Semantic Similarity Using FastText and Word Mover's Distance	Vol. 14, Issue 2	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
8	2021	Kelly R. Sungkono, Riyanarto Sarno, Fransisca D. Amadea, Ariqoh F. Irbah. Graph-Based Process Model Discovery for Mining Invisible Non-Prime Tasks in Hybrid Choice-Parallel Relationships	Vol. 14, Issue 3	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
9	2021	Malikhah, Riyanarto Sarno , Shoffi Izza Sabilla. Ensemble Learning for Optimizing Classification of Pork Adulteration in Beef Based on Electronic Nose Dataset	Vol. 14, Issue 4	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
10	2021	Achmad Fahmi, Heri Subianto, Priya Nugraha, Muhammad Hamdan, Asra Al Fauzi, Anggraini Dwi Sensusiati, Budi Utomo, Riyanarto Sarno , Agus	31(4)	Turkish Neurosurgery (Scopus Q3)

		Turchan, Mohammad Hasan		
		Machfoed, Takaomi Taira, Abdul Hafid Bajamal. <i>VIM</i>		
		Line Technique for		
		Determining the Ventral		
11	2020	Intermediate Location Shoffi Izza Sabilla, Riyanarto	Vol. 29,	
11	2020	Sarno, Kuwat Triyana, Kenshi	2020	G : 1
		Hayashi. Deep Learning in a		Sensing and Bio-Sensing
		Sensor Array System based on		Research
		the Distribution of Volatile Compounds from Meat Cuts		(Scopus Q1)
		using GC-MS Analysis		
12	2020	Dedy Rahman Wijaya,	Vol. 157,	
		Riyanarto Sarno, Enny	February	Computers and
		Zulaika. Noise Filtering Framework for Electronic	2019	Electronics in Agriculture
		Nose Signals: An application		(Scopus Q1)
		for beef quality monitoring		(2017an Q -)
13	2020	Mhd Arief Hasan, Riyanarto	Vol. 13,	International
		Sarno, Shoffi Izza Sabilla.	No.5	Journal of Intelligent
		Optimizing Machine Learning		Engineering &
		Parameters for Classifying the Sweetness of Pineapple Aroma		Systems
		Using Electronic Nose		(IJIES)
14	2020	Muhammad Ainul Yaqin,	Vol. 13,	(Scopus Q2) International
14	2020	Riyanarto Sarno, Siti	No.6	Journal of
		Rochimah. Measuring		Intelligent
		Scalable Business Process		Engineering &
		Model Complexity Based on Basic Control		Systems (IJIES)
		Structure		(Scopus Q2)
15	2020	Riyanarto Sarno, Fernandes	Vol. 7,	
		Sinaga, Kelly Rossa	No. 5	Journal of Big
		Sungkono. <i>Anomaly Detection</i> in <i>Business Processes using</i>		Data (Scopus
		Process Mining and Fuzzy		Q1)
		Association Rule Learning		
16	2020	Riyanarto Sarno, Shoffi Izza	Vol. 32	
		Sabilla, Dedy Rahman Wijaya, Dwi Sunaryono, Chastine		Data in Brief
		Fatichah. <i>Electronic nose</i>		(Scopus Q2)
		dataset for pork adulteration		
17	2020	in beef	Vol. 20	
1 /	2020	Riyanarto Sarno , Shoffi Izza Sabilla, Dedy Rahman Wijaya,	Vol. 28, No. 1,	
		Hariyanto. Electronic Nose for	2020	Engineering Letters
		Detecting Multilevel Diabetes		(Scopus Q2)
		using Optimized Deep Neural Networ		(20pus Q2)
18	2020	Achmad Fahmi, Heri	Vol. 77	International
	-	Subianto, Priya Nugraha,		Journal of
		Muhammad Hamdan, Asra Al		Surgery Case
		Fauzi, Anggraini Dwi		Report
		Sensusiati , Budi Utomo,		(Scopus Q3)

1 1	1	T .	1	1
		Riyanarto Sarno, Agus		
		Turchan, Mohammad Hasan		
		Macfoed, Takaomi Taira,		
		Abdul Hafid Bajamal. Vim		
		line technique thalamotomy		
		-		
		for Parkinson tremor: Case		
		series		
19	2020		Vol. 13,	International
		Yohanes Setiawan, Chastine	No. 5	Journal of
		Fatichah, Riyanarto Sarno . A		Intelligent
		New Local Gaussian		Engineering &
		Variational Level Set for		Systems
		Globus Pallidus Segmentation		(IJIES)
		Globus I alliaus segmentation		, ,
	2020	771	XX 1 10	(Scopus Q2)
20	2020	Khairiyyah Nur Aisyah,	Vol. 13,	
		Chastine Fatichah, Riyanarto	No. 5	International
		Sarno. Multilevel		Journal of
		Thresholding and		Intelligent
		Morphological Relationship		Engineering &
		Approach for Automatic		Systems
	1	Detection of Anterior and		(IJIES)
	1	· ·		
		Posterior Commissure in Mid-		(Scopus Q2)
		sagittal Brain MRI		
21	2020	Yohanes Setiawan, Kelly	Vol. 13,	International
		Rossa Sungkono, Riyanarto	No. 5	Journal of
		Sarno. A New Similarity		Intelligent
		Method based on Weighted		Engineering &
		Graph Models for Matching		Systems
		Parallel Business Process		(IJIES)
		Models		` ′
	2020		X7 1 10	(Scopus Q2)
	2020	Khairiyyah Nur Aisyah, Kelly	Vol. 13,	
		Rossa Sungkono, Riyanarto	No. 5	International
		Sarno. A New Similarity		Journal of
		Method based on Weighted-		Intelligent
		Linear Temporal Logic Tree		Engineering &
		and Weighted Directed		Systems
		Acyclic Graph for Graph-		(IJIES)
		based Business Process		(Scopus Q2)
				(Scopus Q2)
	2020	Models	X7 1 10	<u> </u>
	2020	Adiba Sabilla Ajrina,	Vol. 13,	International
		Riyanarto Sarno, Hari	No. 5	Journal of
		Ginardi, Aziz Fajar. Mining		Intelligent
	1	Zone Determination of		_
		Natural Sandy Gravel using		Engineering &
		Fuzzy AHP and SAW,		Systems
		MOORA and COPRAS		(IJIES)
		Methods.		(Scopus Q2)
	2020		Vol. 12	
	2020	Sulaiman Wakhid, Riyanarto	Vol. 13,	International
		Sarno, Shoffi Izza Sabilla,	No. 4	Journal of
		Dike Bayu Maghfira.		Intelligent
		Detection and Classification		•
	1	of Indonesian Civet and Non-		Engineering &
		Civet Coffee Based on		Systems
		Statistical Analysis		(IJIES)
				(Scopus Q2)
		Comparison Using E-Nose.		

T -		T	T =	T
		Sinarring Azi Laga, Riyanarto Sarno. Temperature effect of electronic nose sampling for classifying mixture of beef and pork	Vol. 19, No. 3	Indonesian Journal of Electrical Engineering and Computer Science (Scopus Q3)
	6 2020	Ryco Puji Setyono, Riyanarto Sarno . Comparative method of moora, copras and topsis based on weighting of best worst method in supplier selection at ABC mining companies in Indonesia	Vol. 19, No. 2	Indonesian Journal of Electrical Engineering and Computer Science (Scopus Q3)
	7 2020	Indra Waspada, Riyanarto Sarno , Kelly Rossa Sungkono. An Improved Method of Parallel Model Detection for Graph-Based Process Model Discovery	Vol. 13, No. 2	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
	8 2020	Budi Harjo, Riyanarto Sarno , Siti Rochimah. <i>Automatic Web</i> Service Composition for SaaS Business Intelligence	Vol. 13, No. 2	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
	9 2020	Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah. Enhancing the performance of sentiment analysis task on product reviews by handling both local and global context	Vol. 12, No. 1	International Journal of Information and Decision Sciences (Scopus Q3)
3	0 2020	Suhariyanto, Riyanarto Sarno , Chastine Fatichah, Edi Faisal. Aspect Based Sentiment Analysis: A Systematic Literature Review	Vol. 5, No. 1	Journal of Applied Intelligent System
3	1 2019	Cahyaningtyas Sekar Wahyuni, Kelly Rossa Sungkono, Riyanarto Sarno . Novel Parallel Business Process Similarity Methods based on Weighted-Tree Declarative Pattern Models	Vol. 13, No. 1, pp. 65-77	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
3	2 2019	Ahmad Yusuf Ardiansyah and Riyanarto Sarno. Performance Analysis of Wireless Sensor Network with Load Balancing for Data Transmission using XBEE ZB Module	vol. 14, no. 2, pp. 1-13	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)

3	3 2019		vol. 14,	Indonesian
		Afrianda Cahyapratama, Kelly Rossa Sungkono, Riyanarto Sarno . Gap Analysis Business Process Model by Using Structural Similarity	vol. 14, no. 2, pp. 1-12	Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)
3.	4 2019	M. Jupri and Riyanarto Sarno . Data Mining, Fuzzy AHP And TOPSIS For Optimizing Taxpayer Supervision		Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)
3.	5 2019	Maryamah, Agus Zainal Arifin, Riyanarto Sarno , Yasuhiko Morimoto. <i>Query</i> Expansion Based on Wikipedia Word Embedding and BabelNet Method for Searching Arabic Documents	vol. 12, no. 5, pp. 202-213	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
3	5 2019	Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah. Evaluating the Performance of Sentence Level Features and Domain Sensitive Features of Product Reviews on Supervised Sentiment Analysis Tasks	vol. 6, no. 84, pp. 1- 19	Journal of Big Data (Scopus Q1)
3	7 2019	Dedy Rahman Wijaya, Riyanarto Sarno, Enny Zulaika. Noise filtering framework for electronic nose signals: An application for beef quality monitoring	Volume 157, Pages 305-321.	Elsevier, Com puters and Electronics in Agriculture (Scopus Q1)
3	8 2019	Farza Nurifan, Riyanarto Sarno , Kelly Rossa Sungkono. Aspect based Sentiment Analysis for Restaurant Reviews using Hybrid ELMo-Wikipedia and Hybrid Expanded Opinion Lexicon-SentiCircle	vol. 12, no. 6, pp. 47-58	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
3	2019	Ari Firmanto, Riyanarto Sarno . Aspect-Based Sentiment Analysis Using Grammatical Rules, Word Similarity, and SentiCircle	Vol. 12, No. 5	International Journal of Intelligent Engineering & Systems (IJIES) (Scopus Q2)
4	2019	Umi Salamah, Riyanarto Sarno , Agus Zainal Arifin, Anto Satriyo Nugroho, Ismail Ekoprayitno Rozi, Puji Budi	In Press	Int. J. Biomedical Engineering and

		Satio Asib Enhancement of		Tachnalas
		Setia Asih. Enhancement of low quality blood smear image		Technology (Scopus Q3)
		using contrast and edge		(Scopus Q3)
		corrections.		
	41 2019		Vol. 5,	International
		D :	No. 2	Journal of
		Riyanarto Sarno, Kelly		Advances in
		Rossa Sungkono. A Survey of graph-based algorithms for		Intelligent
		discovering business processes		Informatics
		discovering business processes		(IJAIN)
-				(Scopus Q3)
	42 2019	Bagus Setya Rintyarna,	Vol. 8,	
		Riyanarto Sarno, Chastine	No. 3	
		Fatichah. Semantic Features		Computers
		for Optimizing Supervised Approach of Sentiment		(Scopus Q2)
		Analysis on Product Reviews		
-	43 2019	Analysis on Froduct Reviews	Vol.16,	Indonesian
	.5 2017	Bambang Jokonowo,	No. 1,	Journal of
		Riyanarto Sarno, Siti	= ,	Electrical
		Rochimah, Bagus Priambodo.		Engineering
		Process Mining: Measuring		and Computer
		Key Performance Indicator		Science
		Container Dwell Time		(IJEECS)
				(Scopus Q3)
	44 2019	Reza Amalia Priyantina,	Vol. 12,	International
		Riyanarto Sarno. Sentiment	Issue 4	Journal of
		Analysis of Hotel Aspect for Optimization Management		Intelligent
		Hotel Review Analysis Using		Engineering
		Latent Dirichlet Allocation		and Systems
		(LDA) Similarity and		(IJIES)
		Sentiwordnet.		(Scopus Q2)
	45 2019		Vol. 12,	International
		Dewi Ayu Khusnul Khotimah,	Issue 4	Journal of
		Riyanarto Sarno. Sentiment		Intelligent
		Analysis of Hotel Aspect Using		Engineering
		PLSA (Probability Latent		and Systems
		Semantic Analysis).		(IJIES)
	46 2019		Vol. 12,	(Scopus Q2) International
	40 2019	Kelly Rossa Sungkono, Ulva	Voi. 12, Issue 4	Journal of
		Erida Nur Rochmah,	15540 7	Intelligent
		Riyanarto Sarno. Heuristic		Engineering
		Linear Temporal Logic		and Systems
		Pattern Algorithm in Business Process Model.		(IJIEŠ)
				(Scopus Q2)
	47 2019	Aziz Fajar, Riyanarto Sarno .	Vol 17,	
		Agent Based Simulation and	No 4	TEL LONDING
		Optimization of Parallel Task		TELKOMNIK
		to Reduce Asynchronous Waiting Time on Business		A (Scopus Q3)
		Process.		
-	48 2019	Irwan Alnarus Kautsar,	Vol.9, No.	International
		Riyanarto sarno. A	2,	Journal on
		Supportive Tool for Project	pp.630-	Advanced

			Based Learning and Laboratory Based Education	639.	Science Engineering and Information Technology
	49	2019	Lukman Hakim, Riyanarto Sarno , Kelly Rossa Sungkono. <i>Modified Alpha++</i> Algorithm for Discovering the Hybrid of Non-Free Choice and Invisible Task of Business Processes.	Vol. 12, Issue 3, pp. 31-40	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
	50	2019	Dedy Rahman Wijaya, Riyanarto Sarno, Enny Zulaika. Noise Filtering Framework for Electronic Nose Signals: An application for beef quality monitoring.	Vol. 157	Elsevier, Computers and Electronics in Agriculture (Scopus Q1)
	51	2019	Mohammad Fikri, Riyanarto Sarno . A Comparative Study of Sentiment Analysis using SVM and SentiWordNet	Vol. 13, No. 3, pp. 902-909	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) (Scopus Q3)
	52	2019	Riyanarto Sarno, Kelly Rossa Sungkono, Reynaldo Johanes, Dwi Sunaryono. Graph-Based Algorithms for Discovering A Process Model Containing Invisible Tasks.	Vol. 12, Issue 2, pp.85-94	International Journal of Intelligent Engineering and Systems (IJIES) (Scopus Q2)
	53	2019	Riyanarto Sarno, Dedy Rahman Wijaya. Recent Development in Electronic Nose Data Processing for Beef Quality Assessment.	Vol. 17, No. 1, pp.337- 348	TELKOMNIK A (Scopus Q3)
	54	2019	Gita Intani Budiawati, Riyanarto Sarno. Time and Cost Optimization of Business Process RMA using PERT and Goal Programming.	Vol. 17, No. 2	TELKOMNIK A (Scopus Q3)
Activities in specialist bodies over the last 5 years	2016	- Odd F N S - Eve F	d Semester: Bachelor: Systems Audit Master: Advance topics in Systems oftware Project Management on Semester: Bachelor: Knowledge Engineering Topics in Intelligent Information Master: Advance topics in Knowledge	g, Enterprise Management	System, Specific
	201′	- Odo	d Semester: Bachelor: Systems Audit, Knowle	dge Enginee	ring

_	Master: Software Engineering, Advance topics in System Audit Even Semester:
	Bachelor: Software Project Management, Enterprise System
	Master: Advance topics in Knowledge Based Engineering
	Master. Advance topics in Knowledge based Engineering
2018	
_	Odd Semester:
	Master: Software Engineering, Advance topics in System Audit,
	Advance topics in Software Evolution
_	Even Semester:
	Bachelor: Software Project Management, Enterprise System,
	Introduction to Process Mining
	Master: Advance topics in Software Project Management,
	Advance topics in Knowledge Based Engineering
2019	
_	Odd Semester:
	Bachelor: Software Project Management
	Master: Software Engineering
_	Even Semester:
	Bachelor: System Audit, Introduction to Process Mining,
2020	
_	Odd Semester:
	Bachelor: Software Project Management
	Master: Software Engineering, Advance topics in System Audit
_	Even Semester:
	Master: Advance topics in Software Project Management
Intern	ational Journal Editor:
1. Int	ternational Journal of Intelligent Engineering and Systems
2. Int	ternational Journal of Advances in Intelligent Informatics
	-
Intern	ational Journal Reviewer:
1. Jo	urnal of King Saud (2020)
2. IE	EE Access (2020)

Name	Ratih Nur Esti Anggraini, S.Kom., M.Sc., Ph.D.
Position	Lecturer
Academic career	- Bachelor's degree (Computer Science), Sepuluh Nopember Institute of Technology, Indonesia, 2008.
	- Master's degree (Science), National Taiwan University of Science and Technology, Taiwan, 2012.
	- Doctoral degree (Mathematic Engineering), University of Bristol, 2021.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
	Informatics Technology
Research and	1. The Development of Research Ethics Review System (STEPDAL)
development projects	based on Rule Engine and Text Understanding for Ethical Review
over the last 5 years	Result Recommendation, 2021
	2. The Development of Automatic Reviewer Scheduling Module in
	Research Ethics Review System, 2021
	3. Flexible Requirement Verification for Adaptive Systems, 2020
	4. Mobile Application for Guidance and Provision of Toddler's Nutrition to Support e-PKK, 2016

	 PKK-man: A System to Manage PKK Activities in Indonesia, 2016 Tools for Detecting Punctuation Errors in Scientific Papers, 2016 Infant and Pregnancy Encyclopedia Application, 2015 Decomposition using Refined Process Structure Tree (RPST) and Control Flow Complexity Metrics, 2015 KMS-CS: A Client Server Application for Storing Toddler Health Information in Posyandu, 2015
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over	A Graded Approach to Requirement Satisfaction for Evolving Systems, 2019
the last 5 years	 Capturing Requirement Correlation in Adaptive Systems, 2018 Fuzzy Representation for Flexible Requirement Satisfaction, 2017
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Software Design, Analysis and Design of Information Systems, Database Systems Even Semester: Software Design Process, Database Management
	 2021 Even Semester: Database Management, Analysis and Design of Information Systems, Computer Programming, Knowledge-based Engineering

Name	Shintami Chusnul Hidayati, S.Kom., M.Sc., Ph.D.
Position	Lecturer
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2009. Master's degree (Science), National Taiwan University of Science and Technology, Taiwan, 2012. Doctoral degree (Computer Science and Information Engineering),
P 1	National Taiwan University of Science and Technology, Taiwan, 2017.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and	1. An AI-based Assessment Monitoring System, 2021.
development	2. StyleMe: An AI Fashion Consultant for Personal Shopping and Style
projects over the last 5 years	Advice, 2018.
Industry collaborations	1. Microsoft Research Asia, 2018.
over the last 5 years	2. Samurai Spirit Inc., 2014 – 2017.
Patents and proprietary rights	None
Important	Journal Articles
publications over the last 5 years	 Shintami Chusnul Hidayati, Ting Wei Goh, Ji-Sheng Gary Chan, Cheng-Chun Hsu, John See, Lai-Kuan Wong, Kai-Lung Hua, Yu Tsao, and Wen-Huang Cheng, "Dress with Style: Learning Style from Joint Deep Embedding of Clothing Styles and Body Shapes," to appear in IEEE Transactions on Multimedia. (Impact Factor 2019: 6.051) Wen-Huang Cheng, Sijie Song, Chieh-Yun Chen, Shintami Chusnul Hidayati, and Jiaying Liu, "Fashion Meets Computer Vision: A Survey," to appear in ACM Computing Surveys. (Impact Factor 2019: 7.990)

- 3. Shintami Chusnul Hidayati, Chuang-Wen You, Wen-Huang Cheng, and Kai-Lung Hua, "Learning and Recognition of Clothing Genres from Full-body Images," IEEE Transactions on Cybernetics, vol. 48, no. 5, pp. 1647 1659, 2018. (Impact Factor 2018: 10.387)
- 4. Kai-Lung Hua, <u>Shintami Chusnul Hidayati</u>, Fang-Lin He, Chia-Po Wei, and Yu-Chiang Frank Wang, "Context-Aware Joint Dictionary Learning for Color Image Demosaicking," Journal of Visual Communication and Image Representation, vol. 38, pp. 230-245, 2016. (Impact Factor 2016: 2.164)
- 5. Jordi Sanchez-Riera, Kai-Lung Hua, Yuan-Sheng Hsiao, Tekoing Lim, Shintami Chusnul Hidayati, and Wen-Huang Cheng, "A Comparative Study of Data Fusion for RGB-D Based Visual Recognition," Pattern Recognition Letters, vol. 73, pp. 1 6, 2016. (Impact Factor 2016: 2.164)
- 6. Tsung-Hung Tsai, Wei-Chih Jhou, Wen-Huang Cheng, Min-Chun Hu, I-Chao Shen, Tekoing Lim, Kai-Lung Hua, Ahmed Ghoneim, M. Anwar Hossain, and Shintami Chusnul Hidayati, "Photo sundial: Estimating the Time of Capture in Consumer Photos," Neurocomputing, vol. 177, pp. 529 542, 2016. (Impact Factor 2016: 3.317)

Peer-Reviewed Conference Papers

- 1. <u>Shintami Chusnul Hidayati</u> and Yeni Anistyasari, "Body Shape Calculator: Understanding the Type of Body Shapes from Anthropometric Measurements," in Proc. Int. Conf. Multimedia Retrieval, Taipei, Taiwan, Nov. 16 19, 2021.
- 2. Ghali Marzani, Nanik Suciati, and Shintami Chusnul Hidayati, "Morphological Preprocessing for Low-Resolution Face Recognition using Common Space," in Proc. International Conference on ICT for Smart Society, Bandung, Indonesia, Aug. 2 4, 2021.
- 3. Yeni Anistyasari, Ekohariadi Ekohariadi, IG P Asto Buditjahjanto, and Shintami Chusnul Hidayati, "Exploring the Psychometric Properties of Computational Thinking Assessment in Introductory Programming," in Proc. Int. e-Engineering Education Services Conference (e-Engineering), Petra, Jordan, Jun. 22 23, 2021.
- 4. Firman Maulana, Hadziq Fabroyir, Darlis Herumurti, Imam Kuswardayan, and <u>Shintami Chusnul Hidayati</u>, "Real-time Landscape Generation in Games Using Parallel Procedural Content," in Proc. International Conference on Computer Engineering, Network, and Intelligent Multimedia, Surabaya, Indonesia, Nov. 17 18, 2020.
- Ganendra Afrasya Salsabilla, Hadziq Fabroyir, Darlis Herumurti, Imam Kuswardayan, and <u>Shintami Chusnul Hidayati</u>, "Tachyon: Multiplatform Rhythm Game with Automatic Beatmap Generation," in Proc. International Conference on Computer Engineering, Network, and Intelligent Multimedia, Surabaya, Indonesia, Nov. 17 – 18, 2020.
- 6. Marde Fasma'ul Aza, Nanik Suciati, and <u>Shintami Chusnul Hidayati</u>, "Performance Study of Facial Expression Recognition Using Convolutional Neural Network," in Proc. International Conference on Science in Information Technology, Palu, Indonesia, Oct. 21 22, 2020.
- 7. Muhammad Auliaramadani, Nanik Suciati, and <u>Shintami Chusnul Hidayati</u>, Hadziq Fabroyir, Ridho Rahman Hariadi, "Augmented Reality for 3D House Design Visualization from Floorplan Image," in Proc. International Conference on Electrical Engineering and Informatics, Aceh, Indonesia, Oct. 27-28, 2020.
- 8. Shintami Chusnul Hidayati, Raden Bimo Rizki Prayogo, Satria Ade

- Veda Karuniawan, Mhd. Fadly Hasan, and Yeni Anistyasari, "What's in a Caption?: Leveraging Caption Pattern for Predicting the Popularity of Social Media Posts," in Proc. IEEE International Conference on Vocational Education and Electrical Engineering (IEEE ICVEE), Surabaya, Indonesia, Oct. 3 - 4, 2020.
- 9. Shintami Chusnul Hidayati, Kai-Lung Hua, Yu Tsao, Jiaying Liu, Hong-Han Shuai, and Wen-Huang Cheng, "Garment Detectives: Discovering Clothes and Its Genre in Consumer Photos," in Proc. IEEE International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR), San Jose, California, USA, Mar. 28 - 30, 2019.
- 10. Shintami Chusnul Hidayati, Cheng-Chun Hsu, Yu-Ting Chang, Kai-Lung Hua, Jianlong Fu, and Wen-Huang Cheng, "What dress fits me best? Fashion Recommendation on the Clothing Style for Personal Body Shape," in Proc. ACM International Conference on Multimedia (ACM MM), Seoul, Korea, Oct. 22 - 26, 2018.
- 11. Eric Massip, Shintami Chusnul Hidayati, Wen-Huang Cheng, and Kai-Lung Hua, "Exploiting Category-specific Information for Image Popularity Prediction in Social Media," in Proceedings of the IEEE International Conference on Multimedia and Expo (ICME) Workshops, San Diego, California, USA, Jul. 23 - 27, 2018.
- 12. Shintami Chusnul Hidayati, Yi-Ling Chen, Chao-Lung Yang, and Kai-Lung Hua, "Popularity Meter: An Influence- and Aesthetics-aware Social Media Popularity Predictor," in Proceedings of the ACM International Conference on Multimedia (ACM MM), Mountain View, California, USA, Oct. 23 - 27, 2017.
- 13. Zhao-Ming Liu, Yung-Yao Chen, Shintami Chusnul Hidayati, Shih-Che Chien, Feng-Chia Chang, and Kai-Lung Hua, "3D Model Retrieval Based on Deep Autoencoder Neural Networks," in Proceedings of the IEEE International Conference on Signals and Systems (ICSigSys), Bali, Indonesia, May 16 - 18, 2017.
- 14. Jordi Sanchez-Riera, Shintami Chusnul Hidayati, Kai-Lung Hua, Jen-Chieh Chiang, and Wen-Huang Cheng, "A Learning-based Tracking Algorithm for Hand Gesture," in Proceedings of the 29th IPPR Conference on Computer Vision, Graphics, and Image Processing (CVGIP), Keelung, Taiwan, Aug. 15 - 17, 2016.
- 15. Dang Duy Thang, Shintami Chusnul Hidayati, Yung-Yao Chen, Wen-Huang Cheng, Shih-Wei Sun, and Kai-Lung Hua, "A Spatialpyramid Scene Categorization Algorithm based on Locality-aware Sparse Coding," in Proceedings of the 2016 IEEE International Conference on Multimedia Big Data (BigMM), Taipei, Taiwan, Apr. 20 - 22, 2016.
- 16. Yu-Chen Chen, Shintami Chusnul Hidayati, Wen-Huang Cheng, Min-Chun Hu, and Kai-Lung Hua, "Locality Constrained Sparse Representation for Cat Recognition," in Proceedings of the 22nd International Conference on MultiMedia Modeling (MMM), Miami, USA, Jan. 4 - 6, 2016.

Activities in specialist bodies over the last 5 years

Teaching

2019

- Odd Semester: Artificial Intelligence, Computational Intelligence, Computer Graphics
- Even Semester: Deep Learning, Artificial Intelligence, Advanced Topics in Computer Graphics, Computational Intelligence, Data Structure

2020

Odd Semester: Computer Graphics, Basic Programming, Data Structure

- Even Semester: Artificial Intelligence, Advanced Topics in Computer Graphics, Data Structure, Basic Algorithms and Programming

Journal Activities

Reviewer

- IEEE Transactions on Multimedia
- IEEE MultiMedia
- IEEE Access
- Machine Vision and Applications
- Visual Computer
- IEICE Transactions on Information and Systems
- ITE Transactions on Media Technology and Applications
- MDPI Applied Sciences
- MDPI Electronics
- MDPI Information
- Journal of Physical Communication

Editor-in-chief

- Scientific Journal of Information Technology

Conference Activities

Organizer/Co-organizer

- ACM Multimedia Grand Challenge on AI Meets Beauty: 2019, 2020

Chair/Co-chair

- IEEE Int. Conf. Multimedia and Expo: 2022
- ACM Int. Conf. Multimedia Retrieval: 2021
- ACM Multimedia Grand Challenge on AI Meets Beauty: 2018
- IEEE Int. Conf. Visual Communications and Image Processing: 2018

Program committee member

- IEEE Int. Conf. Multimedia and Expo: 2018, 2019, 2020, 2021
- Int. Conf. MultiMedia Modelling: 2020, 2021
- IEEE Int. Conf. Image Processing: 2018, 2019, 2020, 2021
- ACM Int. Conf. Multimedia Retrieval: 2021
- IEEE Int. Workshop on Multimedia Signal Processing: 2019, 2020, 2021
- Int. Conf. Information and Communication Technology and Systems: 2017, 2019, 2021
- Int. Conf. Vocational Education and Electrical Engineering: 2020, 2021
- ACM Int. Conf. Multimedia: 2018, 2019, 2020
- Int. Conf. Pattern Recognition: 2020
- IEEE Int. Symposium on Circuits and Systems: 2020
- IEEE Int. Conf. Visual Communication and Image Processing: 2018, 2019
- ACM Int. Conf. Multimedia in Asia: 2019
- Int. Symp. Intelligent Signal Processing and Communication Systems: 2019

Area of Expertise: Intelligent Vision Computing

Name	Prof. Ir. Handayani Tjandrasa, M.Sc., Ph.D.
Position	Professor
Academic career	- Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 1975.
	- Master's degree (Computer Science), University of Wisconsin -
	Madison 1978. Dester's degree University of Wisconsin, 1984
Employment	- Doctor's degree, University of Wisconsin, 1984.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development	1. Swing Trajectory Model for the New Design of Quadruped Robot using V-REP Simulator, 2020
projects over the	2. Non-Proliferative Diabetic Retinopathy Classification Based on Hard
last 5 years	Exudates Using Combination of FRCNN, Morphology, and ANFIS, 2020
	3. Improving Spectral Quality of IHS-Pansharpening Result by
	Integrating Equalization Process using SVE-DWT for Satellite Imagery Data, 2020
	4. Classification of Tobacco Leaf Pests using VGG16 Transfer Learning, 219
	5. Classification of Diabetic Retinopathy and Normal Retinal Images using CNN and SVM, 2019
	6. Red Small Dot Segmentation for Early Warning of Diabetic Retinopathy, 2018
	7. Exudate Segmentation in Retinal Images of Diabetic Retinopathy using Saliency Method based on Region, 2018
	8. Classification of P300 Event-related Potentials using Wavelet Transform, MLP, and Soft Margin SVM, 2018
	9. A Soft Weighted Median Filter for Removing General Purpose Image
	Noise,2017 10. Exudate Detection in Retinal Fundus Images using Combination of
	Mathematical Morphology and Renyi Entropy Thresholding, 2017 11. Classification of Alcoholic EEG using Wavelet Packet Decomposition, Principal Component Analysis, and Combination of
	Genetic Algorithm and Neural Network, 2017 12. Feature Extraction using Combination of Intrinsic Mode Functions
	and Power Spectrum for EEG Signal Classification, 2016
	13. Feature Extraction using Statistical Moments of Wavelet Transform for Iris Recognition, 2016
	14. Classification of EEG Signals using Common Spatial Pattern-
	principal Component Analysis and Interval Type-2 Fuzzy Logic System, 2016
	15. Alcoholism Classification based on EEG Data using Independent
	Component Analysis (ICA), Wavelet De-noising and Probabilistic Neural Network (PNN), 2016
	16. Classification of EEG Signals using Single Channel Independent
	Component Analysis, Power Spectrum, and Linear Discriminant Analysis, 2016
	17. Identification of Oil Palm Plantations in IKONOS Images using Radially Averaged Power Spectrum Values, 2015
Industry collaborations	
over the last 5 years	

Patents and	None
proprietary rights	
Important	1. Severity Classification of Non-Proliferative Diabetic Retinopathy
publications over	using Convolutional Support Vector Machine, 2020
the last 5 years	2. Identification of Acute Lymphoblastic Leukemia Subtypes in
	Touching Cells Based on Enhanced Edge Detection, 2020
	3. Combination of Aggregated Channel Features (ACF) Detector and
	Faster R-CNN to Improve Object Detection Performance in Fetal
	Ultrasound Images, 2018
	4. Robot Motion Control using the Emotiv EPOC EEG System, 2018
	5. Automatic Leukemia Cell Counting using Iterative Distance
	Transform for Convex Sets, 2018
	6. Text Mining for Pest and Disease Identification on Rice Farming with Interactive Text Messaging, 2018
	7. Hybrid Speckle Noise Reduction Method for Abdominal
	Circumference Segmentation of Fetal Ultrasound Images, 2018
	8. Detection of Facial Expressions Using the Gabor and Haar Wavelet Features, 2018
	9. Classification of P300 in EEG Signals for Disabled Subjects using
	Singular Spectrum Analysis, 2017
	10. Urban Road Materials Identification using Narrow Near Infrared Vision System, 2017
	11. New Lossless Compression Method using Cyclic Reversible Low Contrast Mapping (CRLCM), 2016
	12. Glaucoma Detection in Fundus Retina Image using Adaptive
	Thresholding and Support Vector Machine, 2016
	13. Lossless Image Compression Method using Reversible Low Contrast
	Mapping (RLCM), 2016
	14. Classification of Mental Activities based on EEG Data using Hybrid Neural Network and Fuzzy Particle Swarm Optimization Methods with Crossmutated Operation, 2016
	15. Image Orientation Improvement based on Human Presence using
	Gradient and Haar-like Features, 2015
	16. Image Orientation Automatically based on the Presence of a Face
	using the HAAR-LIKE feature, 2015
	17. Nucleus and Cytoplasm Segmentation on Cervical Smear Image using
	a Combination of Fuzzy C-Means Clustering and Radiating Gradient
	Vector Flow Snake Methods, 2015 18. Classification of Non Proliferative Dishetic Patinopathy, based on
	18. Classification of Non-Proliferative Diabetic Retinopathy based on Segmented Exudates using K-Means Clustering, 2015
Activities in	2015
specialist bodies	- Odd Semester: Computational Intelligence, Research Methodology
over the last 5	and Philosophy of Science, Dissertation - Research 1, Dissertation -
years	Research 2, Dissertation - Research 3, Seminar 1.
	2016
	- Odd Semester: Computational Intelligence, Research Methodology
	and Philosophy of Science, Seminar 1.
	- Even Semester: Digital Image Processing, Topics in Digital Image Processing, Seminar 2.
	2017
	- Odd Semester: Computational Intelligence, Research Methodology
	and Philosophy of Science

 Even Semester: Artificial Intelligence, Digital Image Processing, Topics in Digital Image Processing, Research Methodology.
 Odd Research Methodology and Philosophy of Science, Seminar 1, Computational Intelligence. Even Semester: Digital Image Processing, Topics in Digital Image Processing, Seminar 2.
 Odd Semester: Computational Intelligence, Research Methodology and Philosophy of Science. Even Semester: Topics in Digital Image Processing, Digital Image Processing, Artificial Intelligence.
 Odd Semester: Biomedical Computing, Computational Intelligence, Research Methodology and Philosophy of Science, Seminar 1.

Name	Prof. Dr. Agus Zainal Arifin, S.Kom., M.Kom.
Position	Professor
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, 1995. Master's degree (Computer Science), Universitas Indonesia 2001. Doctoral degree, Hiroshima University, 2007.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Image Classification Performance Evaluation for 3D Model Reconstruction, 2020 Line Operator as a CNN-Based Preprocessing Method for Osteoporosis Detection in Panoramic Dental Radiographs, 2020 Converting Images into Base Relief Using Image Processing Techniques, 2019 Tooth Segmentation Using Gamma Adjustment and Transition Region Filter Based on Wavelet Method, 2019 Age Estimation System Using Deep Residual Network Classification Method, 2019 Enhanced Topic Modeling using Dictionary for Questions and Answers, 2019 Adaptive Edge-Based Image Contrast Enhancement using Multi Sub-Histogram Analysis, 2019 3D Region Merge for Tooth Segmentation in Cone-Beam Computed Tomography Images, 2018 Hierarchical Clustering Linkage for Merging Regions in Interactive Image Segmentation on Computed Tomography Dental Cone Beam, 2018 Branching Detection in Trabecular Bones Using Multiscale COSFIRE Filters for Osteoporosis Identification, 2018 Automatic Comparison of Products based on Opinion Features using Synonym Equations and Jaccard, 2018 Gaussian Kernel Based Conditional Spatial FCM Interactive Segmentation for Panoramic Radiography, 2018 Generating automatic markers based on composite directional images from frequency domains for dental panoramic radiographic

	segmentation, 2017
	14. Rainfall Forecasting using Autoregressive Integrated Moving Average,
	Single Input and Multi Input Transfer Function, 2017
	15. Combining Spatial Information and Line Features in an Adaptive
	Classifier for Trabecular Bone Segmentation, 2017
	16. Co-occurrence Techniques and Dictionary-Based Methods for
	Indonesian Thesaurus Construction, 2017
	17. Computer-assisted System for Osteoporosis Assessment using
	Mandibular Cortical Width Measurements on Dental Panoramic
	Radiographs, 2017
	18. Feature Extraction using Wavelet Transform Statistical Moments for
	Iris Recognition, 2016
	19. Improvement of Low-Quality Microscopic Images of Thick Blood Smears of Malaria Patients using Contrast and Edge Correction, 2016
	20. Phrase Suffix Tree Efficiency with Single Pass Clustering for
	Indonesian Web Document Grouping, 2016
	21. Measurement of Cortical Bone Thickness in Dental Panoramic Images
	based on Polynomial Curve, 2016
	22. Tooth Segmentation in Dental Panoramic Radiography using
	Decimation-free Directional Filter Bank Thresholding and Multistage
	Adaptive Thresholding, 2015
	23. Classification of Tuna using Decision Tree Algorithms and Image
	Processing Methods, 2015
	24. Image Thresholding based on Obscurity Index and Fuzzy Similarity
	Measure, 2015
	25. Non-Linear Spatial-Temporal Input Selection for Rainfall Forecasting
	Using Repetitive Neural Networks, 2018
	26. Feature Extraction based on Shape Descriptors and Copy Points for
	Tuna Image Classification, 2016
	27. Arabic Document Ranking using Latent Semantic Indexing, 2015
	28. Optimization of Weighting on Query Expansion with Term Relatedness
Industry collaborations	to Query-Entropy based (TRQE), 2015 None
over the last 5 years	None
Patents and	None
proprietary rights	
Important	Multitask learning with general vector space for cross-lingual semantic
publications over	relation detection, 2020
the last 5 years	2. Tweet Classification using Deep Learning Architecture for Concert
	Event Detection, 2020
	3. Automatic Segmentation of Dental Cone Beam Computed Tomography
	Image Based on Level Set Method Using Morphology Operators and
	Polynomial Fitting, 2020
	4. Separation of Overlapping Object Segmentation using Level Set with
	Automatic Initialization on Dental Panoramic Radiograph, 2020
	5. Enhancement of Low-Quality Blood Smear Image using Contrast and
	Edge Corrections, 2020
	6. Semantic Relation Detection based on Multi-task Learning and Cross-
	Lingual-View Embedding, 2020
	7. Multi-projection Deep Learning Network for Segmentation of 3D
	Medical Images, 20198. A Robust Segmentation for Malaria Parasite Detection of Thick Blood
	Smear Microscopic Images, 2019
	omean wherescopic images, 2017

- Automatic Segmentation of Mandibular Cortical Bone on Cone-Beam CT Images Based on Histogram Thresholding and Polynomial Fitting, 2019
- 10. Deteksi Bot Spammer Twitter Berbasis Time Interval Entropy dan Global Vectors for Word Representations Tweets Hashtag, 2019
- 11. Segmenting Tooth Components in Dental X-Ray Images using Gaussian Kernel-Based Conditional Spatial Fuzzy C-Means Clustering Algorithm, 2019
- 12. Correlation and Symmetrical Uncertainty-based Feature Selection for Multivariate Time Series Classification, 2019
- 13. Detection of Overlapping Teeth on Dental Panoramic Radiograph, 2019
- 14. Automatic image slice marking propagation on segmentation of dental CBCT, 2019
- 15. Query Expansion Based on Wikipedia Word Embedding and BabelNet Method for Searching Arabic Documents, 2019
- 16. Query Expansion menggunakan Word Embedding dan Pseudo Relevance Feedback, 2019
- 17. Performance Analysis of Specification Computer and Mobile with Implementation Tawaf Virtual Reality using A* Algorithm and RVO System, 2019
- 18. Iterated Region for Interactive Image Segmentation on Dental Panoramic Radiograph, 2019
- 19. Autonomy Stemmer Algorithm for Legal and Illegal Affix Detection use Finite-State Automata Method, 2019
- 20. Ambiguitas Machine Translation pada Cross Language Chatbot Bea Cukai, 2019
- 21. Incorporating index of fuzziness and adaptive thresholding for image segmentation, 2018
- 22. Segmentation of Malaria Parasite Candidate from Thickblood Smear Microscopic Images using Watershed and Adaptive Thresholding, 2018
- 23. Sentence Extraction based on Sentence Distribution and Part of Speech Tagging for Multi-document Summarization, 2018
- 24. Automatic Determination of Seeds for Random Walker by Seeded Watershed Transform for Tuna Image Segmentation, 2018
- 25. A Flexible Sub-Block in Region based Image Retrieval based on Transition Region, 2018
- 26. Inter and Intra Cluster on Self-Adaptive Differential Evolution for Multi-Document Summarization, 2018
- 27. Image Thresholding based on Hierarchical Clustering Analysis and Percentile Method for Tuna Image Segmentation, 2018
- 28. Indonesian News Classification using Naive Bayes and Two-Phase Feature Selection Model, 2017
- 29. Arabic Book Retrieval using Class and Book Index-Based Term Weighting, 2017
- 30. Region Merging Strategy using Statistical Analysis for Interactive Image Segmentation on Dental Panoramic Radiographs, 2017
- 31. Fuzzy Region Merging using Fuzzy Similarity Measurement on Image Segmentation, 2017
- 32. Least Squares Support Vector Machines Parameter Optimization based on Improved Ant Colony Algorithm for Hepatitis Diagnosis, 2017
- 33. RBF Kernel Optimization Method with Particle Swarm Optimization on SVM using the Analysis of Input Datas Movement, 2017
- 34. Trabecular Bone Segmentation based on Segment Profile

Odd Semester: Professional Communication, Information Retrieval

Systems, Topics in Information Retrieval Systems.

2019

-		Semester: odology, Dat		2,	Dissertation	Writing,	Research
2020			C				
-	Syster				nmunication, I etrieval System		

Name	Dr. Eng. Chastine Fatichah, S.Kom., M.Kom.
Position	Associate Professor, Head of Department
	 Associate Professor, Head of Department Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2000. Master's degree (Computer Science), Universitas Indonesia 2008. Doctoral degree, (Computational Intelligence & Systems Science), Tokyo Institute of Technology, 2012. Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember 2020 – 2021: Principal Investigator, Research project: Fast Deep Learning Segmentation of Brain Tumour 3D MRI Image and Prediction of Patient Survival 2020 – 2021: Principal Investigator, Research project: Method for Gender Identification and Grouping of Human Ages from Ramus Mandibula Panoramic Radiography 2019 – 2021: Co-Principal Investigator, Research project: Development of Accurate 3D Additive Manufacturing Generator Based on Medical Imagery for Head Skull Surgery Planning and Facial Bone Reconstruction 2020: Principal Investigator, Development of Method for Automated Assessment of Indonesian Essay Answering with Deep Neural Network Transfer Learning Approach
	 Mandibula Panoramic Radiography 2019 – 2021: Co-Principal Investigator, Research project: Development of Accurate 3D Additive Manufacturing Generator Based on Medical Imagery for Head Skull Surgery Planning and Facial Bone Reconstruction 2020: Principal Investigator, Development of Method for Automated Assessment of Indonesian Essay Answering with Deep Neural Network Transfer Learning Approach 2020: Co-Principal Investigator, Research project: Vehicle Number Plates Recognition based on CCTV Video Data for Development of Smart Gate Parking System
	 6. 2018–2020: Principal Investigator, Research project: Event detection in urban city by crowdsourcing based spatial and temporal information using deep learning method 7. 2018–2020: Co-Principal Investigator, Research project: Development of Electronic-Nose for Beef Quality Detection 8. 2017–2019: Co-Principal Investigator, Research project: Information retrieval system for Arabic documents 9. 2017–2018: Co-Principal Investigator, Research project: Face recognition based on Video data for surveillance system 10. 2014 – 2016: Principal Investigator, Research project: CellMorph: Computer Aided for Morphological Cell Analysis on Microscopic Image for Cell Cancer Detection 11. 2014–2016: Principal Investigator, Research project: Multi Document
Industry collaborations over the last 5 years	Summarization of Indonesian News Based on Trending Issue Data Twitter with Trivial Event Detection as Keywords 12. 2014–2015: Consultant, International Partnership Research Project: An Exigent Redesign of Electronic Biomedical Management Kits for Enhanced Reliability in managing intractable diseases (Asthma, Diabetes, and Epilepsy) in the KSA.

Patents and proprietary rights	1. Incident Report: Application of Incident Detection in Urban through Crowdsourcing Social Media Data, EC00201991701, 20 December 2010
	20192. Consumer Preference Extractor (CP-Extractor V.1.1), EC00201978665, 29 October 2019
	3. BCE Application for Finding Initial Basic Feasible Solution in Transportation Problem, EC00202056261, 4 December 2020
	4. Computer Program "ItsBehavex-Collab ", EC00202120797, 21 April 2021
Important publications over	1. Indra Kharisma Raharjana, Daniel Siahaan, Chastine Fatichah , User Stories and Natural Language Processing: A Systematic Literature
the last 5 years	Review, IEEE Access 9, 53811-53826, 2021.
the last 5 years	 Eko Prasetyo, Nanik Suciati and Chastine Fatichah, Multi-Level Residual Network VGGNet for Fish Species Classification, Journal of
	King Saud University-Computer and Information Sciences, 2021. 3. Ana Alimatus Zaqiah, Diana Purwitasari, Chastine Fatichah , "Text
	Generation with Content and Structure-Based Preprocessing in
	Imbalanced Data of Product Review," International Journal of
	Intelligent Engineering and Systems, Vol.14, No.1, pp. 516-527, 2021.
	4. Chastine Fatichah, Wildan F. Lazuardi, Dini A. Navastara, Nanik
	Suciati, Abdul Munif, "A Content Filtering from Spam Posts on Social
	Media using Weighted Multimodal Approach," Journal of Computer Science, 17(1), pp. 55–66, 2021.
	5. Yudhi Purwananto, Chastine Fatichah , Waskitho Wibisono, Ary M.
	Shiddiqi, Bagus J. Santoso, Nurlita D. Fatmawati, "Collision Avoidance
	Modelling in Airline Traffic Based on the Change of Airplane
	Movements and Dynamic Clouds," Journal of Computer Science, 17(1),
	pp. 33–43, 2021.
	6. Aziz Fajar, Riyanarto Sarno, Chastine Fatichah , "Reconstructing and resizing 3D images from DICOM files," Journal of King Saud
	University-Computer and Information Sciences, 2020.
	7. Avin Maulana, Chastine Fatichah , Nanik Suciati, "Facial Inpainting Using Generative Adversarial Network with Feature Reconstruction
	and Landmark Loss to Preserve Spatial Consistency in Unaligned Face
	Images," International Journal of Intelligent Engineering and Systems, Vol. 13, No. 6, pp. 218-228, 2020.
	8. Ahmad Afiif Naufal, Chastine Fatichah , Nanik Suciati, "Preprocessed
	Mask RCNN for Parking Space Detection in Smart Parking Systems,"
	International Journal of Intelligent Engineering and Systems, Vol. 13,
	No. 6, pp. 255-265, 2020.
	9. Rizka Sholikah, Agus Zainal Arifin, Chastine Fatichah , Ayu Purwarianti, "Multitask Learning with General Vector Space for Cross-
	Lingual Semantic Relation Detection," Journal of King Saud
	University-Computer and Information Sciences, 2020.
	10. Riyanarto Sarno, Shoffi Izza Sabilla, Dedy Rahman Wijaya, Dwi
	Sunaryono, Chastine Fatichah, "Electronic nose dataset for pork
	adulteration in beef," Data in Brief 32, 106139, Elsevier, 2020
	11. Bilqis Amaliah, Chastine Fatichah , Erma Suryani, "A new heuristic method of finding the initial basic feasible solution to solve the
	transportation problem," Journal of King Saud University-Computer
	and Information Sciences, 2020
	12. Yohanes Setiawan, Chastine Fatichah, Riyanarto Sarno, "A New
	Local Gaussian Variational Level Set for Globus Pallidus
	Segmentation," International Journal of Intelligent Engineering and
	Systems, Vol. 13, No. 5, pp. 317-326, 2020. 13. Khairiyah Nur Aisyah, Chastine Fatichah , Riyanarto Sarno,
	13. Emailtyan 13ai 25asyan, Chasunc Fauchan, Riyanano Samo,

- "Multilevel thresholding and Morphological Relationship Approach for Automatic Detection of Anterior and Posterior Commissure in Midsagittal Brain MRI," International Journal of Intelligent Engineering and Systems, Vol. 13, No. 5, pp. 368-378, 2020.
- 14. Rizka Wakhidatus Sholikah, Agus Zainal Arifin, Chastine Fatichah, Ayu Purwarianti, "Semantic Relation Detection based on Multi-task Learning and Cross-Lingual-View Embedding," International Journal of Intelligent Engineering and Systems, Vo. 13, No. 3, 2020.
- 15. Agung Wiratmo, Chastine Fatichah, "Indonesian Short Essay Scoring Using Transfer Learning Dependency Tree LSTM," International Journal of Intelligent Engineering and Systems, Vo. 13, No. 2, 2020.
- 16. Fika Hastarita Rahman, Riyanarto Sarno, Chastine Fatichah, "Hybrid Approach of Structural Lyric and Audio Segments for Detecting Song Emotion," International Journal of Intelligent Engineering and Systems, Vo. 13, No. 1, 2020.
- 17. Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah, "Enhancing the performance of sentiment analysis task on product reviews by handling both local and global context," International Journal of Information and Decision Sciences, Inderscience, Vol. 12, No. 1, 2020.
- 18. Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah, "Evaluating the performance of sentence level features and domain sensitive features of product reviews on supervised sentiment analysis tasks," Journal of Big Data, Springer, Vo. 6, No. 1, 2019.
- 19. Tora Fahrudin, Joko Lianto Buliali, Chastine Fatichah, "Ina-BWR: Indonesian bigram word rule for multi-label student complaints," Egyptian Informatics Journal, Elsevier, Vol. 20, No. 3, pp. 151-161, November 2019.
- 20. Ahmad Saikhu, Agus Zainal Arifin, Chastine Fatichah, "Correlation and Symmetrical Uncertainty-Based Feature Selection for Multivariate Time Series Classification," International Journal of Intelligent Engineering and Systems, Vo. 12, No. 3, June 2019.
- 21. Tora Fahrudin, Joko Lianto Buliali, Chastine Fatichah, "Enhancing the Performance of Smote Algorithm by Using Attribute Weighting Scheme and New Selective Sampling Method for Imbalanced Data Set," International Journal of Innovative Computing Information and Control, Vol. 15, No. 2, pp. 423-444, 2019.
- 22. Bilqis Amaliah, Chastine Fatichah, Erma Suryani, "Total opportunity cost matrix – Minimal total: A new approach to determine initial basic feasible solution of a transportation problem," Egyptian Informatics Journal, Elsevier, Vol. 20, No.2, pp. 131-141, 2019.
- 23. Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah, "Enhancing the performance of sentiment analysis task on product reviews by handling both local and global context," International Journal of Information and Decision Sciences, Inderscience, 2019.
- 24. Bagus Setya Rintyarna, Riyanarto Sarno, Chastine Fatichah, Semantic Features for Optimizing Supervised Approach of Sentiment Analysis on Product Reviews, Computers 8 (3), MDPI, 2019.
- 25. Fika Hastarita Rahman, Riyanarto Sarno, Chastine Fatichah, "Music Emotion Classification based on Lyrics-Audio using Corpus Based Emotion," International Journal of Electrical and Computer Engineering, Vol. 8, No. 3, June, 2018.
- 26. Nenden Siti Fatonah, Handyani Tjandrasa, Chastine Fatichah, "Automatic Leukemia Cell Counting using Iterative Distance Transform for Convex Sets," International Journal of Electrical and Computer Engineering, Vol. 8, No. 3, June, 2018.

- 27. Abdullah M. Iliyasu, *Chastine Fatichah*, "A Quantum Hybrid PSO Combined with Fuzzy k-NN Approach to Feature Selection and Cell Classification in Cervical Cancer Detection", Sensors, 17, 2935, 2017.
- 28. Joko Lianto B, Chastine Fatichah "Vehicle Detection on Images from Satellite using Oriented Fast and Rotated Brief", Journal of Engineering and Applied Sciences, Vol. 12, No. 17, pp. 4500-4503, 2017.
- 29. Hardika Khusnuliawati, Chastine Fatichah, Rully Soelaiman, "Multifeature Fusion Using SIFT and LEBP for Finger Vein Recognition", Telecommunication Computing Electronics and Control, Vol. 15, No.
- 30. Tora Fahrudin, Joko Lianto Buliali, Chastine Fatichah, "RANDSHUFF: An Algorithm to Handle Imbalance Class for Qualitative Data," International Review on Computers and Software (IRECOS), Vol. 11, No. 12, pp. 1093-1104, 2016.
- 31. Abdullah M. Iliyasu, Chastine Fatichah, Khaled A. Abuhasel, "Evidence Accumulation Clustering with Possibilitic Fuzzy C-Means base clustering approach to disease diagnosis," Automatika Journal for Control, Measurement, Electronics, Computing and Communications, Vol. 57, No. 3, pp. 822-835, 2016.
- 32. Chastine Fatichah, Joko Lianto, Ahmad Saikhu, "A Hybrid Fuzzy Morphology and Connected Components Labeling Methods for Vehicle Detection and Counting System," International Journal on Smart Sensing and Intelligent Systems, Vol. 9, No. 2, pp. 765-779, June 2016.
- 33. Abdullah M. Iliyasu, Chastine Fatichah, A Bi-Stage Technique for Segmenting Cervical Smear Images Using Possibilistic Fuzzy C-Means and Mathematical Morphology, Journal of Medical Imaging and Health Informatics, Vol. 6, No. 7, pp. 1663-1669, 2016.
- 34. Chastine Fatichah, Martin L. Tangel, Fei Yan, Janet P Betancourt, M. Rahmat Widyanto, Fangyan Dong, Kaoru Hirota, "Fuzzy feature representation for white blood cell differential counting in acute leukemia diagnosis," International Journal of Control, Automation and Systems, Springer Vol. 13, No. 3, pp.742-752, 2015.
- 35. Khaled A. Abuhasel, Abdullah M. Iliyasu, Chastine Fatichah, "A combined AdaBoost and NEWFM technique for medical data classification", Information Science and Applications, Lecture Notes in Electrical Engineering, Springer, Vol. 339, pp. 801-809, 2015.
- 36. Khaled A. Abuhasel, Abdullah M. Iliyasu, Chastine Fatichah, "A Hybrid Particle Swarm Optimization and Neural Network with Fuzzy Membership Function Technique for Epileptic Seizure Classification," Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII), Vol. 19, No. 3, pp. 447-455, 2015.

Activities in specialist bodies over the last 5 years

TAUGHT COURSES:

2015

- Odd Semester: Computational Intelligence

2016

- Odd Semester: Computational Intelligence
- Even Semester: Artificial Intelligence, Analysis Social Media, Advanced Topics in Computer Vision.

2017

- Odd Semester: Advanced Topics in Data Mining, Seminar 1, Biomedical Computing, Computational Intelligence.
- Even Semester: Seminar 2, Artificial Intelligence, Data Mining

 Odd Semester: Advanced Topics in Data Mining, Computational Intelligence, Biomedical Computing, Computational Intelligence Even Semester: Deep Learning, Data Mining, Seminar 2, Artificial Intelligence
 Odd Semester: Advanced Topics in Data Mining, Seminar 1, Biomedical Computing Even Semester: Seminar 2, Deep Learning, Computational Intelligence, Artificial Intelligence
 2020 Odd Semester: Computational Intelligence, Artificial Intelligence Even Semester: Artificial Intelligence, Deep Learning
REVIEWER OF INTERNATIONAL JOURNALS:
 IEEE Access, 2019-2021 Journal of Biomedical Signal Processing and Control, Elsevier, 2016-2021 Journal of King Saud University - Computer and Information Sciences, Elsevier, 2019-2021 IEEE Transactions on Neural Networks and Learning Systems, 2019-2020 IEEE Transactions on Industrial Informatics, 2018-2020 MethodsX, Elsevier, 2020 Computers in Biology and Medicine, Elsevier, 2017-2019 Journal of E-Biomedicine, Elsevier, 2016 Journal of Applied Computing and Informatics, Elsevier, 2015 International Journal of Advancements in Computing Technology, Korea, 2015
- Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII), Fujipress, Japan, 2014-2015

Name	Dr. Eng. Nanik Suciati, S.Kom., M.Kom.		
Position	Associate Professor		
Academic career	 Bachelor's degree (Computer Engineering), Institut Teknologi Sepuluh Nopember, 1994. Master's degree (Computer Science), Universitas Indonesia, 1998. Doctoral degree (Information Engineering), Hiroshima University, 2010. 		
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and		
	Informatics Technology, Institut Teknologi Sepuluh Nopember		
Research and development projects over the last 5 years	 2021 – 2021: Principal Investigator, Research project: Development of an Integrated Application for Face Recognition, Temperature Measurement and Mask Wear Detection Using Deep Learning 2021 – 2022: Principal Investigator, Research project: Preservation and Retrieval of Balinese Carvings Based on Relation of Motifs and Deep Learning 2021 – 2022: Principal Investigator, Research project: Balinese Script Translator in Ancient Lontar Manuscripts Based on Character Pair Rules and Deep Learning 2021 – 2022: Principal Investigator, Research project: Deep Learning for Detecting Fish's Species and Freshness 		

	 5. 2020 – 2021: Principal Investigator, Research project: Reconstruction of Three-Dimensional Objects from Two-Dimensional Image Data Based-on Learning 6. 2020 – 2020: Principal Investigator, Research project: Measurement of student enthusiasm in lectures using the results of facial expression recognition in a video-based lecture monitoring system 7. 2019 – 2019: Principal Investigator, Research project: Development of Character Recognition System for Handwritten Document Image 8. 2019 – 2019: Principal Investigator, Research project: Traditional Fabric Image Recognition Through Smartphone Cameras Using Features Invariant to Rotation, Scale, and Exposure 9. 2019 – 2019: Principal Investigator, Research project: Development of 3D Learning Tools for Blind Students at SMPLB YPAB Surabaya 10. 2018 – 2018: Principal Investigator, Research project: Development of Photo Data Conversion Applications to 3D Sculptures for Object Recognition for Blind People 11. 2018 – 2018: Principal Investigator, Research project: Face Recognition on Video Data for Room Surveillance 12. 2017 – 2017: Principal Investigator, Research project: Deep Learning for Retrieval of Large Amounts of Image Data 13. 2016 – 2016: Principal Investigator, Research project: Exploration of Texture Features of Iris Image Using Wavelet Transform for Personal Identification 14. 2015 – 2016: Principal Investigator, Research project: Application Development for Classification of Indonesian Traditional Fabric Motifs
Industry collaborations	None
over the last 5 years	TVOIC
Patents and	1. Incident Report: Application of Incident Detection in Urban through
proprietary rights	Crowdsourcing Social Media Data, EC00201991701, 20 December 2019
	2. Hybrid Program ANFIS-PSOGA, EC00202134367, 22 Juli 2021
Important publications over the last 5 years	1. Anny Yuniarti, Agus Zainal Arifin, Nanik Suciati, A 3D template-based point generation network for 3D reconstruction from single images, Applied Soft Computing, vol. 111, pp. 1-9, 2021.
	2. Eko Prasetyo, Nanik Suciati, Chastine Fatichah, Multi-Level Residual Network VGGNet for Fish Species Classification, Journal of King Saud University-Computer and Information Sciences, 2021.
	3. Ni Putu Sutramiani, Nanik Suciati, Daniel Oranova Siahaan, MAT-AGCA: Multi Augmentation Technique on small dataset for Balinese
	character recognition using Convolutional Neural Network, ICT Express, 2021.
	4. Chastine Fatichah, Wildan F. Lazuardi, Dini A. Navastara, Nanik Suciati, Abdul Munif, "A Content Filtering from Spam Posts on Social Media using Weighted Multimodal Approach," Journal of Computer Science, 17(1), pp. 55–66, 2021.
	5. Fajar Astuti Hermawati, Handayani Tjandrasa, Nanik Suciati, Phase-based thresholding schemes for segmentation of fetal thigh cross-sectional region in ultrasound images, Journal of King Saud University-Computer and Information Sciences, 2021.
	6. Novrindah Alvi Hasanah, Nanik Suciati, Diana Purwitasari, Identifying Degree-of-Concern on COVID-19 topics with text classification of
	 Twitters, Register, Vol. 7, No. 1, pp. 50-62, 2021. 7. Avin Maulana, Chastine Fatichah, Nanik Suciati, "Facial Inpainting Using Generative Adversarial Network with Feature Reconstruction and Landmark Loss to Preserve Spatial Consistency in Unaligned Face

- Images," International Journal of Intelligent Engineering and Systems, Vol. 13, No. 6, pp. 218-228, 2020.
- 8. Ahmad Afiif Naufal, Chastine Fatichah, Nanik Suciati, "Preprocessed Mask RCNN for Parking Space Detection in Smart Parking Systems," International Journal of Intelligent Engineering and Systems, Vol. 13, No. 6, pp. 255-265, 2020.
- 9. Ricky Eka Putra, Handayani Tjandrasa, Nanik Suciati, Severity classification of non-proliferative diabetic retinopathy using convolutional support vector machine, International Journal of Intelligent Engineering and Systems, Vol. 13, No. 4, pp. 156-170, 2020.
- 10. Nuning Septiana, Nanik Suciati, Combination of fast hybrid classification and k value optimization in k-nn for video face recognition, Register, Vol. 1, No. 6, pp. 65-73, 2020.
- 11. Ahmad Wahyu Rosyadi, Nanik Suciati, Image segmentation using transition region and k-means clustering, IAENG International Journal of Computer Science, Vol. 47, No. 1, pp. 47-55, 2020
- 12. I Wayan Agus Surya Darma, Nanik Suciati, Daniel Siahaan, Neural Style Transfer and Geometric Transformations for Data Augmentation on Balinese Carving Recognition using MobileNet, International Journal of Intelligent Engineering and Systems, Vol. 13, No. 6, pp. 349-363, 2020.
- 13. Eko Prasetyo, Raden Dimas Adityo, Nanik Suciati, Chastine Fatichah, Partial Centroid Contour Distance (PCCD) in Mango Leaf Classification, International Journal on Advanced Science, Engineering and Information Technology, Vol. 10, No. 5, pp. 2020.
- 14. W Nurul Khotimah, Tiara Anggita, Nanik Suciati, "Indonesian sign language recognition using kinect and dynamic time warping, Indonesian Journal of Electrical Engineering and Computer Science, Vo. 15, No. 1, pp. 495-503, 2019.
- 15. Rarasmaya Indraswari, Takio Kurita, Agus Zainal Arifin, Nanik Suciati, Eha Renwi Astuti, "Multi-projection deep learning network for segmentation of 3D medical images," Pattern Recognition Letters, Vo. 125, pp.791-797, 2019.
- 16. Rarasmaya Indraswari, Agus Zainal Arifin, Nanik Suciati, Eha Renwi Astuti, Takio Kurita, Automatic segmentation of mandibular cortical bone on cone-beam CT images based on histogram thresholding and polynomial fitting, International Journal of Intelligent Engineering and Systems, Vol. 12, No. 4, 2019.
- 17. Eko Prasetyo, R Dimas Adityo, Nanik Suciati, Chastine Fatichah, Multi-class K-support vector nearest neighbor for mango leaf classification, Telkomnika, Vol. 16, No. 4, 2019.
- 18. Fajar Astuti Hermawati, Handayani Tjandrasa, Nanik Suciati, Hybrid Speckle Noise Reduction Method for Abdominal Circumference Segmentation of Fetal Ultrasound Images, International Journal of Electrical & Computer Engineering, Vol. 8, No. 3, 2018.
- 19. Agus Eko Minarno, Ayu Septya Maulani, Arrie Kurniawardhani, Fitri Bimantoro, Nanik Suciati, Comparison of Methods for Batik Classification using Multi Texton Histogram, Telkomnika, Vol. 16, No. 63, 2018.
- 20. Fajar Astuti Hermawati, Handayani Tjandrasa, Nanik Suciati, Combination of aggregated channel features (ACF) detector and faster R-CNN to improve object detection performance in fetal ultrasound images, International Journal of Intelligent Engineering and Systems, Vo. 11, No. 6, June 2018.

Activities in
specialist bodies
over the last 5
years

TEACHING

2015

- Odd Semester: Topic in Human Computer Interaction, Computer Vision, Computer Graphics
- Even Semester: Topic in Computer Graphics, Artificial Intelligence.

2016

- Odd Semester: Computer Vision, Computer Graphics, Computational Intelligence, Topic in Human Computer Interaction.
- Even Semester: Topic in Computer Graphics, Topic in Digital Image Processing, 3D Modelling and Computer Animation, Artificial Intelligence.

2017

- Odd Semester: Computer Vision, Computer Graphics, Computational Intelligence, Topic in Human Computer Interaction.
- Even Semester: Topic in Computer Graphics, 3D Modelling and Computer Animation, Artificial Intelligence.

2018

- Odd Semester: Computer Vision, Computer Graphics, Computational Intelligence.
- Even Semester: Topic in Computer Graphics, 3D Modelling and Computer Animation, Topic in Computer Vision, Artificial Intelligence.

2019

- Odd Semester: Computer Vision, Seminar 1, Computational Intelligence.
- Even Semester: Seminar 2, 3D Modelling and Computer Animation, Topic in Computer Vision, Artificial Intelligence.

2020

- Odd Semester: Computer Vision, Computational Intelligence, Computer Vision, Artificial Intelligence.
- Even Semester: Computational Intelligence, Topic in Computer Vision, Artificial Intelligence, Seminar 2.

REVIEWER OF INTERNATIONAL JOURNALS:

- Journal of King Saud University Computer and Information Sciences, Elsevier, 2020-2021
- Computer and Electronics in Agriculture, 2020

Area of Expertise: Network-Based Computing

Name	Prof. Tohari Ahmad S.Kom., MIT, Ph.D.
Position	Professor
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2000. Master's degree, Monash University, Australia, 2007. Doctoral Degree, Royal Melbourne Institute of Technology, Australia, 2012
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Reversible Data Hiding with Segmented Secrets and Smoothed Samples in Various Audio Genres, 2020 Evaluating the Performance of Fibbing Architecture in the Hybrid Software Defined Network, 2020 A New Approach of Botnet Activity Detection Model based on Time Periodic Analysis, 2020 A nomaly-based Intrusion Detection Approach for IoT Networks Using Machine Learning, 2020 Reversible Data Hiding Scheme based on General Difference Expansion Cluster, 2020 Path Selection in Software Defined Network Data Plane using Least Loaded Path, 2020 Cancellable Fingerprint Generation by Projection-based Transformation and Quantization, 2020 Reducing Computational Cost of Pair-Polar Coordinate-based Cancelable Fingerprint Template Matching, 2020 Feature Importance Ranking for Increasing Performance of Intrusion Detection System, 2020 Development of Load Balancing Mechanisms in SDN Data Plane Fat Tree using Modified Dijkstra's Algorithm, 2020 Improving the Capacity of Data Hiding by Modifying the Interpolation of Audio Samples, 2020 Hiding Data in Audio Files: A Smoothing-Based Approach to Improve the Quality of the Stego Audio, 2020 Improving Intrusion Detection System by Estimating Parameters of Random Forest in Boruta, 2020 Pearson Correlation Attribute Evaluation-based Feature Selection for Intrusion Detection System, 2020 B-Corr Model for Bot Group Activity Detection based on Network Flows Traffic Analysis, 2020 A Node Density-based Approach for Energy-Efficient Data Gathering Protocol in Wireless Sensor Network Environments, 2020 An Bergy-based Smoothing in Audio, 2020 Annalyzing the Performance of Data Hiding by Designing Three Samples-based Smoothing in Audio, 2020 An Energy-Aware Computation Offloading Framework for a Mobile Crowdsensing Cluster using DMIPS Approach, 2019

- 23. Histogram-based Multilayer Reversible Data Hiding Method for Securing Secret Data, 2019
- 24. Reversible Data Hiding Method by Extending Reduced Difference Expansion, 2019
- 25. Multiple Embedding Process for Increasing the Capacity of the Embedded Secret Message, 2019
- 26. A New Data Hiding Method for Protecting Bigger Secret Data, 2019
- 27. Hiding Secret Data in Grayscale Images by Improving the Method of Reduced Difference Expansion, 2019
- 28. A Grid-Based Clustering with Dynamic Forwarding Path for Energy-Efficient Data Gathering in Wireless Sensor Network Environments, 2019
- 29. Data Preprocessing and Feature Selection for Machine Learning Intrusion Detection Systems, 2019
- 30. Assessing Centroid-Based Classification Models for Intrusion Detection System Using Composite Indicators, 2019
- 31. Developing Audio Data Hiding Scheme using Random Sample Bits with Logical Operators, 2019
- 32. Cluster Analysis-Based Approach Features Selection on Machine Learning for Detecting Intrusion, 2019
- 33. Increasing Accuracy and Completeness of Intrusion Detection Model using Fusion of Normalization, Feature Selection Method and Support Vector Machine, 2019
- 34. Reversible Data Hiding in Audio Based on Discrete Cosine Transform and Location Maps, 2019
- 35. Analyzing The Effect of Block Size on the Quality of the Stego Audio,
- 36. An Improved Secret Message Capacity using Modulus Function Based Color Image Data Hiding, 2018
- 37. Audio Data Hiding using Octal Modulus Function based Unsigned Integer Sample Values, 2018
- 38. Continuous Top-k Dominating Query of Incomplete Data over Data Streams, 2018
- 39. Data Refinement Approach for Answering Why-Not Problem Over K-Most Promising Product (K-MPP) Queries, 2018
- 40. Analyzing the Performance of Machine Learning Algorithms in Anomaly Network Intrusion Detection Systems, 2018
- 41. Position-based Scheme for Multi-Hop Routing Protocol in Cluster-Based Wireless Sensor Networks, 2018
- 42. Enhancement Of Pixel Value Ordering based Data Hiding by Row Block Partition, 2018
- 43. SCFT: Sector-based Cancelable Fingeprint Template, 2017
- 44. A Mobile Crowdsensing Framework for Integrating Smartphone and IoT Devices to Cloud Computing Services, 2017
- 45. Enhanced Pixel Value Modification based on Modulus Function for RGB Image Steganography, 2017
- 46. Edit Distance Weighting Modification using Phonetic and Typographic Letter Grouping over Homomorphic Encrypted Data, 2017
- 47. A Data Hiding Approach using Enhanced-RDE in Grayscale Images,
- 48. Reversible Audio Steganography using Reduced Difference Expansion Method and Sample Value Modification, 2017
- 49. Increasing Performance of IDS by Selecting and Transforming Features using Quality Threshold Distance to Detect Intrusion in TCP/IP network, 2016
- 50. Overlapped Scheme for Neighboring Similarity Method in Video-

Industry collaborations	 Based Data Hiding, 2016 51. Hiding Secret Data by using Modulo Function in Quad Difference Expansion, 2016 52. Adaptive Image Compression USING Adaptive Huffman and LZW, 2016 53. Reversible Video Steganografi using Improved Reduced Difference Expansion and Gray Level Co-occurrence Matrix Analysis, 2016 54. Difference Expansion-Based Data Hiding Method by Changing Expansion Media, 2016 55. Development of File Security Methods Using Graph Coloring, 2016 56. An Improved Neighbouring Similarity Method for Video Steganography, 2016 57. Enhancing DE-based Data Hiding Method by Controlling the Expansion, 2016 None
over the last 5 years	AY.
Patents and	None
Important publications over the last 5 years	 High Quality PVM Based Reversible Data Hiding Method for Digital Images, 2019 Detecting Malicious Activities in a Computer Cluster for Developing Dynamic Honeypot, 2018 Enhancing the Capability of Data Hiding Method based on Reduced Difference Expansion, 2018 Adaptive Pixel Value Grouping for Protecting Secret Data in Public Computer Networks, 2018 Enhancing the Performance of Audio Data Hiding Method by Smoothing Interpolated Samples, 2018 Improving Prediction Error Expansion based Data Hiding Method for Securing Confidential Data, 2018 Securing Secret Data by Enhancing the Controlling Expansion Method, 2018 Protecting Data by Improving Quality of Stego Image based on Enhanced Reduced Difference Expansion, 2018 Information Hiding Scheme for Digital Images using Difference Expansion and Modulus Function, 2018 Medical Record Protection with Improved Grade Data Hiding Method on Audio Files, 2017 L-SCANN: Logarithmic Subcentroid and Nearest Neighbor, 2016 Audio Data Hiding Based on Sample Value Modification using Modulus Function, 2016 Increasing Accuracy of Process-based Fraud Detection using a Behavior Model, 2016
Activities in specialist bodies over the last 5 years	 Odd Semester: Special Topics in Net Centric Computing, Digital System, Net Centric Computing, Advance topics in Multimedia Network, Seminar 2 Even Semester: Computer Network, Advance Topics in Network Security, Digital System, Information and Network Security
	 Odd Semester: Special Topics in Net Centric Computing, Information System and Technology, Digital System, Seminar 1, Advance topics in Multimedia Network Even Semester: Advance Topics in Network Security, Seminar 2, Information and Network Security, Computer Network

 Odd Semester: Computer Network, Undergraduate Pre-Thesis, Dissertation Writing, Information and Network Security, Net Centric Computing Even Semester: Advance Topics in Network Security, Research Methodology, Digital System, Dissertation Writing
 2019 Odd Semester: Information and Network Security, Digital System, Advance Topics in Multimedia Network, Dissertation Writing Even Semester: Advance Topics in Network Security, Digital System
 Odd Semester: Computer Network, Digital System, Advance Topics in Multimedia Network, Research Dissertation I, Dissertation Writing

Name	Ary Mazharuddin Shiddiqi, S.Kom., M.Comp.Sc., Ph.D.
Position	Associate Professor, Secretary of Academic Affairs
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2004. Master's degree, Monash University, Australia, 2010. Doctoral Degree, University of Western Australia, Australia, 2019.
Employment	Lecturer, Secretary of Academic Affairs, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Monitoring Computer Networks Using the Internet of Things based on Wemos D1 ESP6288, 2020 Optimization of Current Sensor Placement for Corrosion Detection in Water Pipelines, 2020 Micro-Climate Mapping and Modeling Based on 3D City Model to Support Land Use Structure, 2020 An Advanced Sensor Placement Strategy for Small Leaks Quantification Using Lean Graphs, 2020 Internet of Things Based User Oriented Wi-Fi Quality Analyzer, 2020 The Development of Blackhole Attack in AODV Routing Protocol, 2020 Applied Machine Learning in Load Balancing, 2020 GCRFP-Page Replacement for Solid State Drive Using Ghost-Cache, 2020 Increasing The Robustness of Classification Algorithms to Quantify Leaks Through Optimization, 2020 Development of Offloading Computing Mechanisms to Improve Performance and Resource Efficiency on Mobile Devices in Wireless Environments, 2019 An Enhanced Sensor Placement Strategy to Quantify Small Leaks in Water Distribution Networks using Weighted Lean Graphs, 2019 Sensor energy preservation for leak quantification using Distance-Based feature selection method, 2019 An Effective Sensor Placement Strategy to Quantify Multiple Small Leaks in Water Distribution Networks using Lean Graphs, 2018 Sensing-based leak quantification techniques in water distribution systems, 2018
	15. Sensor placement strategy for locating leaks using lean graphs, 2017
Industry collaborations over the last 5 years	None

Patents and	None
proprietary rights	
Important	Books
publications over	Shiddiqi, Ary & Cardell-Oliver, Rachel & Datta, Amitava. (2018).
the last 5 years	Sensing-Based Leak Quantification Techniques in Water Distribution
	Systems. 10.1201/b21948-5.
	International Journal Danage
	International Journal Papers 1. Shiddiqi, A.M., Cardell-Oliver, R., Datta, A. An Advanced Sensor
	Placement Strategy for Small Leaks Quantification Using Lean Graphs.
	Water 2020, 12, 3439. https://doi.org/10.3390/w12123439
	Domestic Journal Papers
	1. Junaidi, Wibowo, P., Yuniasri, D., Damayanti, P., Shiddiqi, A.M.,
	Pratomo, B.A., "Applied Machine Learning in Load Balancing," Jurnal
	Ilmiah Teknologi Informasi, 2020, vol 18, no 2, pp. 76-84, doi:
	http://dx.doi.org/10.12962/j24068535.v18i2.a940
	2. Suadi, W., Djanali, S., Wibisono, W., Anggoro, R., Shiddiqi, A.M., "Replacement for Solid State Drive Using Ghost-Cache," Jurnal Ilmiah
	Teknologi Informasi, 2020, vol 18, no 2, pp. 94-101, doi:
	http://dx.doi.org/10.12962/j24068535.v18i2.a986
	3. Shiddiqi, A.M., "Increasing the Robustness of Classification Algorithms
	to Quantify Leaks Through Optimization," Jurnal Ilmiah Teknologi
	Informasi, 2020, vol 18, no 1, pp. 1-8, doi:
	ttp://dx.doi.org/10.12962/j24068535.v18i1.a841
	Conference Papers
	1. N. G. Razafindrobelina, R. Anggoro and A. M. Shiddiqi, "The
	development of a routing protocol based on Reverse-AODV by
	considering an energy threshold in VANET," 2021 IEEE International
	IOT, Electronics, and Mechatronics Conference, 2021, pp. 1-7.
	2. Bantoso, B. J., A. M. Shiddiqi, Kusuma, R, "A Heuristic Load Balancing
	Algorithm for Cloud Computing in Heterogeneous Resource
	Environment", The 5th International Conference on Information
	Technology and Digital Applications, 13th-14th November 2020, Yogyakarta, Indonesia, Vol. 1077, no. 1, pp. 12-16, IOP Publishing.
	3. A. M. Shiddiqi, R. M. Ijtihadie and M. I. I. Haq, "Internet of Things
	Based User Oriented Wi-Fi Quality Analyzer," 2020 International
	Conference on Computer Engineering, Network, and Intelligent
	Multimedia (CENIM), 2020, pp. 292-296.
	4. R. Anggoro, W. Suadi, A. M. Shiddiqi, R. Ijtihadie, S. Lili and D. W. L.
	Pamungkas, "The Development of Blackhole Attack in AODV Routing
	Protocol," 2020 International Conference on Computer Engineering, Network, and Intelligent Multimedia, 2020, pp. 309-314.
Activities in	2019
specialist bodies	- Odd Semester: Computer Organization, Net Centric Computing
over the last 5	- Even Semester: Knowledge Engineering, Web Programming, Digital
years	Forensics, Software Design, Operating System, Computer Algorithms
	and Programming
	2020
	- Odd Semester: Computer Network, Computer Organization, Net
	Centric Computing

Name	Hudan Studiawan S.Kom., M.Kom., Ph.D.
Position	Assistant Professor
Academic career	- Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2009.
	 Master's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2012. PhD degree, Murdoch University, Australia, 2021.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics
	Technology, Institut Teknologi Sepuluh Nopember
Research and	Forensic Investigation of Event Logs by Automatic Anomaly Detection
development	
projects over the	
last 5 years	
Industry collaborations	None
over the last 5 years	
Patents and	None
proprietary rights	
Important	1. Anomaly Detection in Operating System Logs with Deep Learning-
publications over	based Sentiment Analysis, 2020
the last 5 years	2. Sentiment Analysis in a Forensic Timeline with Deep Learning, 2020
	3. Automatic event log abstraction to support forensic investigation, 2020
	4. A survey on forensic investigation of operating system logs, 2019
	5. Graph clustering and anomaly detection of access control log for
	forensic purposes, 2017
	6. Automatic log parser to support forensic analysis, 2017
Activities in	Journal Reviewer
specialist bodies	1. Computers & Security
over the last 5	2. IEEE Internet of Things Journal
years	3. Future Generation Computer Systems
	4. Wiley Interdisciplinary Reviews series (WIREs) Forensic Science

Name	Bagus Jati Santoso, S.Kom., Ph.D.
Position	Assistant Professor
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2008. Doctoral Degree, National Taiwan University of Science and Technology, Taiwan, 2016
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Cloud-based middleware for supporting batch and stream access over smart healthcare wearable device, 2020 A Heuristic Approach for Multi-Objective Aircraft Conflict Detection and Resolution, 2019 Docker-based Network Functions Virtualization as a Learning Tool in Computer Network Course, 2019 A grid-based approach in answering Top-k dominating queries on groups, 2019 Answering Why-Not Questions on Reverse Skyline Queries Over Incomplete Data, 2019 Continuous Top-k Dominating Query of Incomplete Data over Data Streams, 2018 Data Refinement Approach for Answering Why-Not Problem Over K-Most Promising Product (K-Mpp) Queries, 2018 Efficient Skyline-based Web Service Composition with QoS-awareness and Budget Constraint, 2018

Industry collaborations	 Multi criteria decision system for distribution provisioning and resource optimization using analytical hierarchy process, 2017 Resource elasticity controller for docker-based web applications, 2017 Designing Efficient Schemes for Answering Dominance-Based Queries, 2016 None
over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	None
Activities in specialist bodies over the last 5 years	 Odd Semester: Net Centric Computing, Operating System, Network Programming, Security Design of System and Network Even Semester: Information and Network Security, Internetworking Technology, Computer Network
	 Odd Semester: Computer Network, Information and Network Security, Internetworking Technology, Network Programming, Operating System Even Semester: Network Programming, Operating System
	 Odd Semester: Information and Network Security, Internetworking Technology, Computer Algorithms and Programming Even Semester: Network Programming, Operating System
	 2020 Odd Semester: Advanced Spreadsheet, Data and Information Management, Fundamental Programming, Computer Network

Name	Dr. Baskoro Adi Pratomo S.Kom., M.Kom.
Position	Assistant Professor
Academic career	 Bachelor's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2008. Master's degree, Institut Teknologi Sepuluh Nopember, Indonesia, 2011.
	2011. PhD dograp Cordiff University United Kingdom 2021
Employment	- PhD degree, Cardiff University, United Kingdom, 2021. Lecturer, Department of Informatics, Faculty of Intelligent and Informatics
Employment	Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 BLATTA: Early Exploit Detection on Network Traffic with Recurrent Neural Networks, 2020 Applied Machine Learning in Load Balancing, 2020 Vote Identification and Integrity of Ballot in Paper-Based E-Voting System, 2018 Unsupervised Approach for Detecting Low-Rate Attacks on Network Traffic with Autoencoder, 2018 Clustering of SSH Brute-force Attack Logs using K-Clique Percolation, 2016 Design and Development of Voting Data Security for Electronic Voting (E-Voting), 2016
Industry collaborations	- Ministry of Social Affairs Republic of Indonesia (2021)
over the last 5 years	- National Cyber Security Centre, United Kingdom (2020-2021)

Patents and	None
proprietary rights	
Important	1. BLATTA: Early Exploit Detection on Network Traffic with Recurrent
publications over	Neural Networks, 2020
the last 5 years	2. Unsupervised Approach for Detecting Low-Rate Attacks on Network
	Traffic with Autoencoder, 2018
Activities in	2020:
specialist bodies	Even Semester:
over the last 5	- Network and System Security Design
years	- Network Programming
	- Network-centric Computing

Area of Expertise: Programming Algorithm

Name	Dr. Yudhi Purwananto, S.Kom., M.Kom.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 1995. Master's degree (Computer Science), Universitas Indonesia, Indonesia, 2002. Doctoral degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2021.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
	Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and	A Heuristic Approach for Multi-Objective Aircraft Conflict Detection and
development	Resolution, 2019
projects over the	
last 5 years	
Industry collaborations	None
over the last 5 years	None
Patents and	None
proprietary rights	Vudhi Dumuananta Chastina Estishah Washitha Wikisana Am M Chiddisi
Important publications over	Yudhi Purwananto, Chastine Fatichah, Waskitho Wibisono, Ary M. Shiddiqi, Bagus J. Santoso, Nurlita D. Fatmawati, "Collision Avoidance Modelling in
the last 5 years	Airline Traffic Based on the Change of Airplane Movements and Dynamic
the last 3 years	Clouds," Journal of Computer Science, 17(1), pp. 33–43, 2021
Activities in	2018
specialist bodies	- Even Semester: Probability and Statistics
over the last 5	·
years	2019
	- Odd Semester: Operations Research, Linear Algebra
	- Even Semester: Numerical Computing, Probability and Statistics
	2020
	- Odd Semester: Operations Research, Linear Algebra

Name	Dr. Diana Purwitasari, S.Kom., M.Sc.
Position	Associate Professor (2001)
Academic career	 (Dr.) Department of Electrical Engineering, Institut Teknologi Sepuluh Nopember, Indonesia, March 2020 (Dissertation: "Modeling Scholar Profile in Expert Recommendation based on Multi-Layered Bibliographic Graph") Advisor: Prof. Mauridhi Hery Purnomo, Dr. Surya Sumpeno, Dr.Eng. Chastine Fatichah (M.Sc.) Graduate School of Science and Engineering, Saga University, Japan, March 2009 (Thesis: "Adaptive Content-based Navigation Generating System for Web-based Learning Applications") Advisor: Prof. Kenzi Watanabe, Dr. Yasuhisa Okazaki (S.Kom.) Department of Informatics Engineering, Institut Teknologi Sepuluh Nopember, Indonesia, September 2001, Minored in Software Engineering
Employment	 Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology Algorithm and Programming Laboratory (IF184101 Programming Fundamental; IF184202 Data Structure) Intelligent Computing and Vision Laboratory (IF184955 Information Retrieval; IF184957 Social Network Analysis)

Research and development	1.	(2020) Deep learning in generating spam data for product reviews with topic-based vector expansion (IDR 20M)
projects over the	2.	
last 5 years	۷.	
last 3 years		productivities based on working-age group behaviour with ego-centric
		network analysis to overcome COVID-19 movement restrictions (IDR
	_	80M)
	3.	(2021) Fuzzy approaches for supporting decisions in controlling dengue infectious disease (IDR 20M)
	4.	(2021) Multi attentions based deep learning for translating Indonesian-Arabic texts (IDR 50M)
	5.	(2021) Credibility measure of Twitter accounts for understanding public
	٥.	
To design as 11 she and so a	1	concerns in COVID-19 era (IDR 50M)
Industry collaborations	1.	Developing student admission system, State Office of Education, East
over the last 5 years	2	Java Province, Indonesia (2020)
	2.	Developing Skill Passport Application, Direktorat Kemitraan dan
		Penyelarasan Dunia Usaha dan Dunia Industri, Direktorat Jenderal
	2	Pendidikan Vokasi, Kemdikbud, Indonesia (2020)
	3.	SIWALAN – Sistem Informasi Warga Layanan Antar, Diskominfo, Tuban Regency, East Java Province, Indonesia (2020)
	4.	IEEE-Sights (#20-COV-30) Web-based Application for Tracing
		COVID-19 in East Java Province, Indonesia (2020)
Patents and	1.	(2021) Program Komputer "MyITS.online TKA-EFL" Web-based
proprietary rights		application for online test on subjects of Academic Aptitude Test (tes
		kemampuan akademik) and english as foreign language at Institut
		Teknologi Sepuluh Nopember (ITS)
	2.	(2021) Program Komputer "ItsBehavex-Collab" Deep-learning based
		application to help researchers in finding collaborators with similar
		topic interests.
Important	1.	B.A. Sanjoyo, D. Purwitasari, M. Hariadi, K. Tsukasa, and M.H.
publications over		Purnomo. "Shallow Water Models for Efficiently Visualizing Fluid
the last 5 years		Flow in Complex Topography Areas", IAENG International Journal of
		Applied Mathematics 51 (1): IJAM_51_1_04, 2021
	2.	N.A. Hasanah, N. Suciati, and D. Purwitasari. "Identifying Degree-of-
	۷.	Concern on COVID-19 topics with text classification of Twitters",
		Register: Jurnal Ilmiah Teknologi Sistem Informasi 7 (1): 50-62, 2021
	2	
	3.	A. Setiyoutami, D. Purwitasari, W. Anggraeni, E.M. Yuniarno, and
		M.H. Purnomo. "Modelling Dengue Spread as Dynamic Networks of
		Time and Location Changes", International Journal of Intelligent
		Engineering and Systems, 14 (3): 346-358, March 2021
	4.	A.A. Zaqiyah, D. Purwitasari, and C. Fatichah. "Text Generation with
		Content and Structure-Based Preprocessing in Imbalanced Data of
		Product Review", International Journal of Intelligent Engineering and
		Systems, 14 (1): 516-527, December 2020
	5.	N. Rijati, D. Purwitasari, S. Sumpeno, and M.H. Purnomo. "A Decision
		Making and Clustering Method Integration based on the Theory of
		Planned Behavior for Student Entrepreneurial Potential Mapping in
		Indonesia", International Journal of Intelligent Engineering and
		Systems, 13 (4): 129-144, August 2020
	6.	D. Purwitasari, C. Fatichah, S. Sumpeno, C. Steglich and M.H.
		Purnomo. "Identifying collaboration dynamics of bipartite author-topic
		networks with the influences of interest changes", Scientometrics 122:
		1407–1443, 2020
<u> </u>	1	

Activities in specialist bodies over the last 5 years	2016 - Odd Semester: Data Structure, Information Retrieval, Computational Intelligence, Desain and Analysis Algorithms, Programming Fundamental
	2019 - Even Semester: Social Network Analysis, Artificial Intelligence
	2020 - Odd Semester: Information Retrieval, Computational Intelligence, Desain and Analysis Algorithms, Programming Fundamental
	 IEEE Indonesia Section Humanitarian Technology and Community Activities (activity committee, 2021) Indonesian Artificial Intelligence Society (IAIS) Chapter Jatim (2020-2021) Pusat Unggulan IPTEKS Artificial Intelligence for Healthcare and
	Society (AIHeS) (vice chair, 2020-2021) 4. Industrial Electronics Society (IES) Chapter Indonesia Section (Treasurer, 2020-2021)
	 Penyusun Strategi Nasional Kecerdasan Artifisial Indonesia Tahun 2020-2045, Kelompok Kerja IV Riset dan Inovasi Industri (Maret- Agustus 2020)

Name	Agus Budi Raharjo, S.Kom., M.Kom., Ph.D.
Position	Lecturer
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2013. Master's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2014. Doctoral degree (Computer Science), Universite D aix Marseille III, Prancis, 2020.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years	 Analysis of Case Clusters and Epidemic Curves with the Development of the East Java COVID-19 Tracing System, 2020 Adaptive Modeling of Time Series Data with Regression-Based Ensemble Learning: A Case Study of the Number of Confirmed COVID-19 Patients, 2020 Reliability in Ensemble Learning and Learning from Crowds, 2019 Dynamic Reliable Voting in Ensemble Learning, 2019 Decision Combinations in Crowds when Number of Reliable Annotators is Rare, 2017 Multi-Label Classification Merger Decision, 2015
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	None

Activities in	2019	
specialist bodies	-	Even Semester: Data Structure, Operating System
over the last 5		
years	2020	
-	-	Odd Semester: Object Oriented Programming, Computer
		Networking, Algorithm Design and Analysis

Area of Expertise: Software Engineering

Name	Dr. Ir. Siti Rochimah, M.T.
Position	Associate Professor
Academic career	 Bachelor's degree, Institut Teknologi Bandung, Indonesia, 1992. Master's degree (Computer Engineering), Institut Teknologi Bandung, Indonesia, 1997. Doctoral degree, Universiti Teknologi Malaysia, Malaysia, 2011.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent Electrical and Informatics Technology
Research and development projects over the last 5 years Industry collaborations	 Design and Build a PPDB Ranking Module for East Java State High Schools / Vocational High Schools 2020 Development of Game-Based English Grammar Learning Applications, 2020 Security Characteristic Evaluation of New Students Admission Information System Based on ISO/IEC 25010 Quality Standard, 2020 Quality in use of Digital Wallet based on ISO/IEC 25022, 2020 How Agile Software Development Affect Software Reusability (Study Case: New Student Admissions Portal in East Java Province), 2020 Functional Suitability Measurement Based on ISO/IEC 25010 for e-Commerce Website, 2020 Maintainability Measurement and Evaluation of myITS Mobile Application using ISO 25010 Quality Standard, 2020 Portability Characteristics Evaluation of MyITS Mobile using ISO/IEC 25010 Quality Standard, 2020 Performance Efficiency Evaluation Frameworks Based on ISO 25010, 2020 Requirements Traceability for Detecting Defects in Agile Software Development, 2020 Requirements Traceability for Detecting Defects in Agile Software Development, 2020 A Serious Game for Measuring and Displaying Mathematics Competencies of Disabled Students, 2019 A Serious Game for Measuring and Displaying Mathematics Competencies of Disabled Students, 2019 A Development of Quality Model for Online Games Based on ISO/IEC 25010, 2019 Assessment of Academic Information System Quality from Two Perspectives: Product Quality and Quality in Use, 2019 Ascurity Characteristic Evaluation Based on ISO/IEC 25023 Quality Model, Case Study; Laboratory Management Information System, 2018 Analyzing the Effect of Design Patterns on Software Maintainability: A Case Study, 2018 Application of Design Patterns and Quality Measurement on Academic Information Systems, 2017 Mobile Application for Guidance and Provision of Toddler's Nutrition to Suppor
over the last 5 years	1,010.

Patents and	None.
proprietary rights	
Important publications over the last 5 years	 Siti Rochimah "Behavioral analysis for detecting code clones", 2018 Riyanarto Sarno, Siti Rochimah, Daniel Oranova Siahaan, Adhatus Solichah Ahmadiyah "Accuracy improvement of the estimations effort in constructive cost model II based on logic model of fuzzy", 2017 Siti Rochimah, Sarwosri "The improvement of software quality model for academic websites based on multi-perspective approach", 2016 Siti Rochimah, Umi Laili Yuhana, "Classification of non-functional requirements using Semantic-FSKNN based ISO/IEC 9126", 2015 Siti Rochimah "Non-source code refactoring: A systematic literature review", 2015
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Software Engineering, Software Evolution, Topics in Software Evolution.
	 Odd Semester: Software Engineering, Dissertation Writing, Software Evolution, Topics in Software Evolution. Even Semester: Topics in Software Quality Assurance, Software Quality Assurance, Software Process Improvement, Research Methodology.
	 Odd Semester: Topics in Software Evolution, Dissertation Writing, Software Evolution. Even Semester: Topics in Software Quality Assurance, Dissertation Writing, Software Project Management, Software Quality Assurance.
	 Odd Semester: Software Engineering, Seminar 1, Analysis and Design of Information Systems, Software Evolution. Even Semester: Information System Analysis and Design, Software Quality Assurance, Seminar 2, Topics in Software Quality Assurance.
	 Odd Semester: Topics in Software Evolution, Software Evolution, Software Project Management. Even Semester: Topics in Software Quality Assurance, Information System Analysis and Design, Software Quality Assurance.
	Odd Semester: Software Project Management, Software Evolution, Seminar 1, Topics in Software Evolution

Name	Daniel O. Siahaan, S.Kom., M.Sc., PD.Eng.
Position	Associate Professor
Academic career	 Bachelor's degree (Computer Engineering), Institut Teknologi Sepuluh Nopember, 1999. Master's degree (Science), Technische Universiteit Delft, Netherlands, 2002. Doctoralal degree (Software Engineering), Technische Universiteit Eindhoven, Netherlands, 2004.

-	
Employment	Lecturer, Department of Informatics, Faculty of Intelligent
	Electrical and Informatics Technology
Research and	1. Calculation of the Similarity of Two State Diagrams using Deterministic
development	Methods, Basic Research (Ristek BRIN), 2021
projects over the	2. Software Design Similarity Calculation Methods based on UML
last 3 years	Diagrams Using Natural Language Processing and Artificial Intelligent,
	Doctoral Dissertation Research (RistekBRIN), 2019-2020.
	3. Software Design Similarity Calculation Methods based on UML
	Diagrams Using Natural Language Processing and Artificial Intelligent,
	Doctoral Dissertation Research (RistekBRIN), 2019-2020.
	4. Automated Method of Generating Questions based on Bloom
	Taxonomy based on Pattern Recognition and Deep Learning as the
	Basis for Standardizing the Level of Difficulty of Questions, Doctoral
	Dissertation Research (RistekBRIN), 2019-2020.
	5. Extraction of User Stories from Natural Language for Identification of
	Software Requirements in Public Sector Applications Using Web
	Mining, Doctoral Dissertation Research (RistekBRIN), 2019-2020.
Industry collaborations	None.
over the last 5 years	
Patents and	Aplikasi Sistem Informasi Akademik (SIA) Generik
proprietary rights	ID: EC00201859725
	Kategori: hak cipta Tahun Permohonan :2018
T	Patent Holder: LPPM - ITS.
Important	1. Information security vulnerability prediction based on business
publications over	process model using machine learning approach
the last 5 years	Hariyanti, E., Djunaidy, A., Siahaan, D.
	Computers and Security, 2021, 110, 102422
	2. User Stories and Natural Language Processing: A Systematic
	Literature Review
	Raharjana, I.K., Siahaan, D., Fatichah, C.
	IEEE Access, 2021, 9, pp. 53811–53826, 9393933
	3. Automated Class Diagram Assessment using Semantic and Structural Similarities
	Fauzan, R., Siahaan, D., Rochimah, S., Triandini, E.
	International Journal of Intelligent Engineering and Systems, 2021,
	14(2), pp. 52–66
	4. MAT-AGCA: Multi Augmentation Technique on small dataset for
	Balinese character recognition using Convolutional Neural Network
	Sutramiani, N.P., Suciati, N., Siahaan, D.
	ICT Express, 2021
	5. A Different Approach on Automated Use Case Diagram Semantic
	Assessment
	Fauzan, R., Siahaan, D., Rochimah, S., Triandini, E.
	International Journal of Intelligent Engineering and Systems, 2021,
	14(1), pp. 496–505
	6. A maturity model for e-commerce adoption by small and medium
	enterprises in Indonesia
	Triandini, E., Djunaidy, A., Siahaan, D.
	Journal of Electronic Commerce in Organizations, 2017, 15(1), pp. 44-58
	7. Game design document format for video games with passive dynamic
	difficulty adjustment
	Atmaja, P.W., Siahaan, D.O., Kuswardayan, D.I.
	Register: Jurnal Ilmiah Teknologi Sistem Informasi, 2016, 2(2), pp. 86-
	97

Activities in	2020 - Present
specialist bodies	- Head of Center for Scientific Publication, Resarch and Community
over the last 5	Service Directorate, Institut Teknologi Sepuluh Nopember.
years	2012 2016
	2012 - 2016
	- Member of National Journal Accreditation (Arjuna) Development Team, Ministry of Research, Technology, and Higher Education.
	2014 - 2018
	- Trainer for Series of Electronic Journal Management System
	Workshops, Ministry \of Research, Technology, and Higher
	Education.
	2006 - Present
	- Member of IEEE Computer Society.
	2020
	2020
	- Reviewer for number of journals: (1) Knowledge Based System, (2)
	Expert Systems with Applications, (3) Automation in Construction.
	- (Chief) Editor for number of journals: (1) IPTEK The Journal for
	Technology and Science, (2) Sewagati, (3) Informal: Informatics
	Journal.

Dr. Umi Laili Yuhana, S.Kom., M.Sc.
Associate Professor
 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, 2002. Master's degree (Science), National Taiwan University, Taiwan, 2008. Doctor's degree (Electrical Engineering), Institut Teknologi Sepuluh Nopember, Indonesia, 2019.
Lecturer, Department of Informatics, Faculty of Intelligent Electrical and
Informatics Technology
 GeMAR: Geometry Augmented Reality Application for Elementary School Students, 2020 AUGGO: Augmented Reality and Marker-based Application for Learning Geometry in Elementary Schools, 2020 Sifte-Math, A Sifteo based Mathematics Assessment Serious Game for Deaf Children, 2020 Analysis of Students Ability Assessment Based on Bloom's Taxonomy Using Fuzzy Signatures, 2019 A Serious Game for Measuring and Displaying Mathematics Competencies of Disabled Students, 2019 Parsing the Semantic Structure of Math Story Problems in Indonesian using a Recursive Neural Network, 2019 Parsing the Semantic Structure of Indonesian Math Word Problems using the Recursive Neural Network 2019 HEIRDOM: Multiple Ending Scenario Game for Mathematics Learning Using Rule-Based System, 2018 Classifying the Complexity of Competency in Elementary School based on Supervised Learners, 2018 Making Standard Operating Procedures for the Development of Management Information Systems: Case Study of DPTSI ITS, 2018

	 Preparation and Testing of Operability Metrics for Academic Information Systems Based on ISO 25010, 2017 Security Quality Measurement Framework for Academic Information System (AIS) based on ISO/IEC 25010 Quality Model, 2017 MathBharata: A Serious Game for Motivating Disabled Students to Study Mathematics, 2017 Predicting Math Performance of Children with Special Needs based on Serious Game, 2017 Exploring the Cluster-Based Ability Pattern of Exam Participants for Determining the Rules of the Scoring System, 2017 Property Aspects of Usability in Academic Information Systems from
	the Perspective of Technology Acceptance Model (TAM), 2016 17. Iot and Machine Learning Implementation in Elementary Level Mathematics Learning Education through Serious Game, 2016 18. Application Development for Recognizing Type of Infant's Cry Sound,
	201619. Design and Build a Web-Based Modular Academic Information System Framework with a Model-View-Controller Hierarchical Architecture Pattern, 2016
	 PDITS: An Integrated Database Application to Support the Integration of Multi-Information Systems in the Institut Teknologi Sepuluh Nopember, 2016
	 21. Generating Cultural Heritage Metadata as Linked Open Data, 2015 22. Automatic Indonesia's Questions Classification based on Bloom's Taxonomy using Natural Language Processing a Preliminary Study, 2015
	 23. Portability Characteristic Evaluation Academic Information System Assessment Module using AIS Quality Instrument, 2015 24. Systematic Mapping of Software Quality Metrics, 2015 25. Software Quality Measurement according to ISO/IEC 25000: Systematic Mapping, 2015
	 26. Website Quality Measurement Based on ISO 9126: Systematic Mapping, 2015 27. Usability Characteristic Evaluation on Administration Module of Academic Information System using ISO/IEC 9126 quality model,
Y 1	2015
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	 Eko Mulyanto Yuniarno, Umi Laili Yuhana, "A rule-based expert system for automatic question classification in mathematics adaptive assessment on indonesian elementary school environment", 2019 Siti Rochimah, Umi Laili Yuhana, "Classification of non-functional requirements using Semantic-FSKNN based ISO/IEC 9126", 2015
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Information Systems and Technology, Software Design.
	 Odd Semester: Software Design, Software Engineering, Data and Information Management. Semester Even: Requirements Engineering.

2020								
-	Odd	Semeste	r: Da	tabase	Systems,	Information	Systems	and
	Tech	nology,	Data	and	Information	n Managem	ent, Sof	tware
	Engir	neering, S	eminar	: 1.				

Area of Expertise: Graphics, Interaction, and Game

Name	Dr.Eng.Darlis Herumurti S.Kom., M.Kom.		
Position	Assistant Professor		
Academic career	 Bachelor's degree (Computer Science), Institut Teknologi Sepuluh Nopember, Indonesia, 2001. Master's degree (Computer Science), Institut Teknologi Sepuluh 		
	Nopember, Indonesia, 2010 Doctoral degree (Engineering), Kumamoto University, Japan, 2014.		
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics		
	Technology, Institut Teknologi Sepuluh Nopember		
Research and development	1. Early Detection Application of Bone Fractures using Image Analysis of Dental Panoramic Radiographs, 2015		
projects over the last 5 years	2. Summary of Indonesian News Multi Documents Based on Twitter Data Trending Issues with Non-Trivial Event Detection as Keyword Selection, 2015		
	3. Software for Classification of Indonesian Traditional Fabric Motifs, 2015		
	4. Game Development of Insect Phobia Therapy using Augmented Reality Technology on Android Devices, 2016		
	5. Multi Document Summary of Indonesian News Based on Twitter Data Trending Issues with Non-Trivial Event Detection as Keyword Selection, 2016		
	6. Software for Classification of Indonesian Traditional Fabric Motifs, 2016		
7	7. Design And Implementation of "Termo": Intelligent Devices based on The Internet of Things (IoT) As Effort to Save Electricity in the Environment of ITS Information Engineering Department, 2017		
	8. Road Damage Detection System through Photo Images for Mobile-Based Road Infrastructure Repair Information, 2018		
	9. Design and Implementation of "Termo" Internet-Based Smart Devices as an Effort to Save Electric Power in the ITS Informatics Department, 2018		
	10. Utilization of Virtual Reality, Augmented Reality and Game Technology to Support Phobia Education and Therapy, 2018		
12	11. Intelligent Decision-Making System to Determine Answers to Text Questions in Educational Game Applications Using the Human Experience Learning Method Approach and Natural Language Processing, 2019		
	12. Recognition of Traditional Fabric Imagery Through Smartphone Cameras Using Features Invariant to Rotation, Scale, and Exposure, 2019		
	13. Utilization of Virtual Reality, Augmented Reality and Game Technology to Support Phobia Education and Therapy, 2019		
	14. The Effect of Point of View on Virtual Reality Experiences: Tethered View vs. First-person View, 2019		
	15. Implementation of User Centered Design in the "Halal Check" Application to Support Automatic Identification of Halal Products Using OCR (Optical Character Recognition) Technology, 2019		
	16. Development of Data Collection Information Systems for Supporting		
	Research at LPPM ITS, 2019 17. Information System for Archiving Document Reporting Research and Community Service at DRPM ITS, 2020		

	 Communication Protocol for Geolocation-based Market Workshop Generation and Data Mining for Mitigation of the Spread of COVID-19, 2020 SiNinja Development: Organizational and Official Performance Monitoring System in ITS Environment for Business Intelligence-Based Program Management and Control, 2020 Intelligent Decision-Making System to Determine Answers to Text Questions in Educational Game Applications Using the Human Experience Learning Method Approach and Natural Language Processing, 2020
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	 Vehicle detection on images from satellite using oriented fast and rotated brief, 2017 Robot motion control using the emotiv EPOC EEG system, 2018 Local binary pattern method and feature shape extraction for detecting butterfly image, 2018
Activities in specialist bodies over the last 5 years	 2015 Odd Semester: Virtual Reality and Augmentation, Topics in Game Development, Topics in Data Mining, Topics in Human-Computer Interaction
	 2016 Odd Semester: Topics in Game Development, Digital Image Processing, Virtual Reality and Augmentation Even Semester: Programming Fundamentals, Computational Intelligence, Artificial Intelligence, Topics in Virtual Reality and Augmentation
	 2017 Odd Semester: Virtual Reality and Augmentation, Topics in Data Mining, Data Structures Even Semester: Computer Graphics, Artificial Intelligence
	 2018 Odd Semester: Topic in Data Mining, Seminar 1, Topic in Human and Computer Interaction Even Semester: Smart Game, Seminar 2, Artificial Intelligence
	 Odd Semester: Topics in Human and Computer Interaction, Computer Graphics, Computational Intelligence Even Semester: Smart Games, Topics in Game Development, Virtual Reality, and Augmented Reality, Seminar 2, Artificial Intelligence
	2020 - Odd Semester: Computer Graphics, Topics in Human-Computer Interaction

Name	Hadziq Fabroyir, S.Kom., Ph.D.
Position	Assistant Professor
Academic career	 Bachelor's degree (Informatics), Institut Teknologi Sepuluh Nopember, Indonesia, 2008. Doctoral degree (Computer Science and Information Engineering), National Taiwan University of Science and Technology, Taiwan, 2018.
Employment	Lecturer, Department of Informatics, Faculty of Intelligent and Informatics Technology, Institut Teknologi Sepuluh Nopember
Research and development projects over the last 5 years	 Development of myITS Research MBKM as a Facility to Support Kampus Merdeka Program, 2021 Development of Immersive Media as an Experiment Innovation in Waste Treatment Virtually, 2021 Development of Information System to Manage Incentives for Supervising Undergraduate Thesis to Improve Academic Article Outcome in ITS, 2021 Communication Protocol to Generate Geolocation- and Data-mining-based Marketplaces to Mitigate the Spreadth of COVID-19, 2020 Design of User Interface and Experience for Marketplace System during Pandemic Based on Messaging's Upload Data, 2020 AR-Geometry: Application for Learning Geometry Based on Markerless Augmented Reality to Optimize Lesson Absorption According to Student Learning Style, 2020 Information System for Archiving Reports of Research and Community Services in ITS, 2020 Informatic Open Library Systems: Design and Development of Integrated Library Information System at Department of Informatics, 2019 The Effect of Point of View on Virtual Reality Experience: Tethered View vs. First-person View, 2019
Industry collaborations over the last 5 years	None
Patents and proprietary rights	 myITS WorkTime: Application to Track ITS Staff's Working Time and Location myITS Single Sign-On (SSO): Application for Identity Access Management (IAM) to Provide Authentication and Authorization Services for Users in ITS
Important publications over the last 5 years	 Mixed Reality Application Prototype to Explore the Real World in Real Time Through Third Person Point of View Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020 Real-time Landscape Generation in Games Using Parallel Procedural Content Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020 Tachyon: Multiplatform Rhythm Game with Automatic Beatmap Generation Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020 AUGGO: Augmented Reality and Marker-based Application for Learning Geometry in Elementary Schools Published in International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM) on November 17, 2020 Augmented Reality for 3D House Design Visualization from Floorplan Image Published in Proceedings of the 6th International Conference on

	1		
	Electrical Engineering and Informatics (ICEEI) on October 27, 2020		
	6. Multitouch Interface is not Good for Spatial Navigation in Virtual		
	Reality		
	Published in Proceedings of International Conference on Information		
	& Communication Technology and System (ICTS) in 2019		
	7. Navigation in virtual environments using head-mounted displays:		
	Allocentric vs. egocentric behaviors		
	Published in Computers in Human Behavior in March 2018		
Activities in	2018		
specialist bodies	- Even Semester: Linear Algebra, Numerical Method, Programming Basics		
over the last 5			
years	2019		
	- Odd Semester: Computer Graphics, Topics on Games, VR, AR.		
	- Even Semester: Human-Computer Interaction, Computer Graphics		
	2020		
	- Odd Semester: Human-Computer Interaction, Computer Graphics,		
	Augmented and Virtual Realities		
	- Even Semester: Human-Computer Interaction		
	2021		
	- Special Program: AWS Cloud Foundation, Azure Cloud Infrastructure		