

CURRICULUM VITAE

A. Personal Identity

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|----|---|---|
| 1 | Full Name (with title) | Dr. Tri Arief Sardjono ST.,MT |
| 2 | Functional Position | Associate Professor |
| 3 | Structural Position | - |
| 4 | Staff ID Number | 197002121995121001 |
| 5 | National Lecturer Identification Number | 0012027005 |
| 6 | Place and Date of Birth | Surabaya, February 12 1970 |
| 7 | Home Address | Kalijudan Taruna II/21 |
| 8 | Phone Number / Fax / HP | 081216536813 |
| 9 | Office Address | Biomedical Engineering Department, ITS Campus, Keputih, Sukolilo, Surabaya, East Java |
| 10 | Email | sardjono@bme.its.ac.id; ; sardjonotriarief@gmail.com |

B. Education Background

| | Bachelor's | Master's | Doctorate |
|-----------------------|--------------------------------------|---|-------------------------|
| College Name | ITS | ITB | University of Groningen |
| Field of Study | Electrical Engineering - Electronics | Electrical Engineering – Biomedical Engineering | Biomedical Engineering |
| Entry – Graduate Year | 1989 - 1994 | 1996 – 1999 | 2003 - 2007 |

C. Short Description about Research Related to Study Program's Development

1. Bachelor's Degree Research Topic

Acquisition Data System Design for Patient Diagnosis
Adviser : Ir. Moch Heroe

2. Master's Degree Thesis

Design and Realization of PC-Based System for PUSKESMAS : Toddler Nutrition Level Evaluation Module, Monitoring of Pregnant Women and SP2TP (Integrated Puskesmas Recording and Reporting System)
Adviser : Prof. Dr. Ir. Soegijardjo Soegijoko

3. Doctorate Degree Disertation

X-Ray Image Analysis for Scoliotic Patients
Adviser : Prof. Dr. G.J. Verkerke

D. Research Experiences

| No | Year | Research Subject | Funding Source |
|----|------|---|----------------|
| 1 | 2016 | Catheter Movement Monitoring System: Development of a Catheter Tracking Device Image-based Tips Using 3D Ultrasound System (Year 3) | |
| 2 | 2015 | Catheter Movement Monitoring System: Development of a Catheter Tracking Device Image-based Tips Using 3D Ultrasound System (Year 2) | |
| 4 | 2015 | Development of 3 ITS Braille Machine Protoypes for SLB Ambon, Pangkal Pinang and Jayapura | |
| 5 | 2014 | Catheter Movement Monitoring System: Development of a Catheter Tracking Device Image-based Tips Using 3D Ultrasound System (Year 1) | |
| 6 | 2012 | Design of Voice Command-Based Electric Wheelchairs for People with Orthopedic Disabilities | |
| 7 | 2011 | Electronic Voice Producing Element Using DSP TMS320C6713 for Larynx Disability Sufferers | |

E. Social Service Experiences

| No | Year | Social Dedication Subject |
|----|------|--|
| 1 | 2016 | Revitalization of Braillo Machine 200/400 |
| 2 | 2015 | Dissemination & Training of ITS Braille Machines in Ambon, Pangkalpinang, Jayapura |
| 3 | 2014 | ITS Braille Machine Prototype Development |
| 4 | 2013 | Study and Development of Braillo 400 |
| 5 | 2012 | Revitalization of Braillo Printer 200 |

F. Scientific Article Writing Experiences in Journals

| No | Scientific Article Subject | Vol/No/Year | Journal Name |
|----|--|-------------------|--|
| 1 | Dikairono, Rudy; Sardjono, Tri Arief; Yulianto, Lucas; “SISTEM NAVIGASI DAN PENGHINDAR RINTANGAN PADA MOBILE ROBOT MENGGUNAKAN GPS DAN PENGUKUR JARAK ULTRASONIK” | Vol.11/No.1/2016 | JAVA Journal of Electrical and Electronics Engineering |
| 2 | Subur, Joko; Sardjono, Tri Arief; Mardiyanto, Ronny; “Braille Character Recognition Using Artificial Neural Network” | Vol.2/No.1/2016 | IPTEK Journal of Proceedings Series |
| 3 | Kurniaji, Paskalis; Kurniaji, Paskalis; Pirngadi, Harris; Sardjono, Tri Arief; “Perancangan dan Simulasi Ultrasonik Doppler Gelombang Kontinyu 4MHz Berbasis Mikrokontroler ATmega16” | Vol.2/No.1/2013 | Jurnal Teknik ITS, pp. A42-A45 |
| 4 | Sardjono, Tri Arief; Wilkinson, Michael H. F.; Veldhuizen, Albert G.; van Ooijen, Peter M. A.; Purnama, Ketut E.; Verkerke, Gijbertus J.; “Automatic Cobb angle determination from radiographic images.” | Vol.38/No.20/2013 | Spine, Vol. 38, No. 20, pp. E1256-62, LWW |
| 5 | Herjuno, Dimas; Rivai, Muhammad; Sardjono, Tri Arief; Herjuno, Dimas; Rivai, Muhammad; “Teledeteksi Gas pada Mobile Robot yang dikendalikan Gelombang Radio” | Vol.1/No.1/2012 | Jurnal Teknik ITS, pp. A160–A163, 2012 |
| 6 | Tompunu, Alan Novi; Kusumanto, RD D; Sardjono, Tri Arief; “IMPLEMENTASI ALGORITMA LEAST MEAN SQUARE UNTUK PENINGKATAN KUALITAS SUARA | Vol.2/No.1/2012 | Semantik |

| | | | |
|----|--|------------------|--|
| | PENDERITA TUNA LARING BERBASIS PROCESSOR TMS320C6713” | | |
| 7 | Dikairono, Rudy; Sardjono, Tri Arief; Purwanto, Djoko;, “Pengembangan Perencanaan Gerak Robot Kartesian Berbasis PLC” | Vol.9/No.1/2011 | JAVA Journal of Electrical and Electronics Engineering, pp. 23-28, 2011 |
| 8 | Sardjono, Tri Arief; Purwanto, Djoko; Ibadillah, Achmad Fiqhi;, “Sistem Penjejakan Obyek Dengan Stereo Vision” | Vol.9/No.1/2011 | JAVA Journal of Electrical and Electronics Engineering |
| 9 | Arifin, Fatchul; Sardjono, Tri Arief; Purnomo, Mauridhy Hery;, “Electrolarynx Voice Recognition Utilizing Pulse Coupled Neural Network” | Vol.21/No.3/2010 | IPTEK The Journal for Technology and Science |
| 10 | Purnama, Ketut E.; Wilkinson, Michael. H. F.; Veldhuizen, Albert G.; Van Ooijen, Peter. M. A.; Lubbers, Jaap; Burgerhof, Johannes G.M. M; Sardjono, Tri A.; Verkerke, Gijbertus J.;, “A framework for human spine imaging using a freehand 3D ultrasound system” | Vol.18/No.1/2010 | Technology and Health Care, pp. 1-17, IOS Press, 2010 |
| 11 | Purnama, Ketut E; Wilkinson, Michael H F; Veldhuizen, Albert G; van Ooijen, Peter; Lubbers, Jaap; Sardjono, Tri A; Verkerke, Gijbertus J; “Ultrasound imaging for human spine: imaging and analysis” | Vol.2/2007 | International Journal of Computer Assisted Radiology and Surgery, pp. S114–S116, SPRINGER HEIDELBERG TIERGARTENSTRASSE 17, D-69121 HEIDELBERG, GERMANY, 2007 |

All the data I filled and listed in this biodata is true and can be accounted by law. If later found inconsistency with the reality, I am willing to accept the risk.

Surabaya, 17 August 2020



(Dr. Tri Arief Sardjono ST.,MT)