

## **RESEARCH ROADMAP** LABORATORY OF MACHINE LEARNING AND BIG DATA **DEPARTMENT OF MATHEMATICS - FSAD-ITS**



2019 2020 2021 2022 **Development of Hybrid Extreme Gradient Boosting Methods for Solving Method In Getting Protein** Multiple Sequence That Affects Insulin Development of al go thm in Bioinformatics Alignment (MSA) **Production Based On Protein-Problems in Big Data** protein Interactions Research Topics **Analysis** Identification of H9 Virus Spread Using Phylogenetic Trees and Prediction of **Antivirus Candidates Web Based Decision Support System for** Fuzzy logic application for manage cropping pattern acc ording to water availibility Predicting the risk level of long-term rice Social Network Analysis, Computational Biology, Opti mization based on artificial production intelligent Developmen Method Bioinformatics, Machine Learning, Big Data, Data Mining **Artificial Intelligence Fuzzy System** Concepts Mathematica Set Theory, Logic

Mathematics, Probability Theory,

**Elementary Linear Algebra** 

Matrix Computing, Stochastic Processes, Graph Theory,

Optimization, Analysis and Programming Algorithms