



Dr. Dra. Intan Syahrini, M.Si

Position

Research Interest: Application of Economic and Financial Mathematics
Teaching Responsibilities: Teaching in the Mathematics Department: Bachelor and Master of Mathematics Study Program

Academic Career

Doctorate course: University Sumatera Utara (USU), Indonesia-Mathematics (2011-2016); Syiah Kuala University, Indonesia - Economics (2007-2021);
Magister Course: Syiah Kuala University, Indonesia - Economics (2003-2005);
Bachelor Course: Institut Teknologi Sepuluh Nopember (ITS), Indonesia - Mathematics (1983-1988)

Employment

Senate of FMIPA USK (2024-2026), Head of Laboratory Mathematical Modeling and Simulation, FMIPA, USK (2021-2024); Head of TPMA Master's Program in Mathematics (1 January 2022-31 December 2022); Head of Master's Program in Mathematics (2022-Present), Head of Mathematics Department, FMIPA, USK (2024-Present)

Research and development projects (last 5 years)

1. Construction and Simulation of a Risk-Based Premium Model Using the Bühlmann-Straub Credibility Approach on Data Following a Negative Binomial-Lindley Distribution/Assistant Professor Research Grant- PNPB USK/Rp.29.500.000/2022
2. Development of an Online Decision Support System Using the Fuzzy Multi-Criteria Decision Making (FMCDM) Method for Selecting Recipients of Productive Economic Aid"/PNBP/Rp.32.500.000/2021
3. A Study of Credibility Premium Models for Rice Farming Insurance and Crop Failure Area in the Aceh Region/Assistant Professor Research Grant- PNPB USK/Rp.30.000.000/2020

Publications (last 5 years)

1. Mik Salmina, Said Munzir, **Intan Syahrini**, Vera Halfiani, Samsul Rizal (2025) Dynamics Modeling for Key Performance Indicators in Higher Education Through Optimization Methods/International Journal of Mathematical, Engineering and Management Sciences. Vol. 10, No. 1, 92-112
2. Nanda Fazilah, T. Murdani Saputra, **Intan Syahrini** (2024) Nonlinear Problem Optimization for Minimizing Production Costs Using Genetic Algorithm and Separable Programming/Indonesian Journal of Applied Mathematics. Vol.4 (1), pp 1-20 ISSN : 2774-2016
3. **Intan Syahrini**, Ariefia Sardini, Nurmaulidar, Muhammad Ikhwan (2023) Application of Lexicographic Goal Programming Method on Stock Portfolio Optimization with Expected Shortfall Approach/Journal technology Education Management Informatics (TEM) Vol.12, No.3, 123-19.
4. Rini Oktavia, Rahma Zuhra, Hafnani, Nurmaulidar, **Intan Syahrini** (2023) Application of Poisson and negative binomials models to estimate the frequency of insurance claims/Jurnal Natural, 23(1)
5. **Intan Syahrini**, Raja Masbar, Aliasuddin, Said Munzir, Yusri Hazmi (2021) The Application of Optimal Control Through Fiscal Policy on Indonesian Economy/Journal of Asian Finance, Economics and Business, Korea Distribution Science Association (KODISA), 8(3), 741-750, 2288-4637, 2288-4645.

Membership

The Indonesian Mathematical Society (IndoMS)/ Member-IMS-01-0007 (2013-Present); Ikatan Alumni Institut Teknologi Sepuluh November (IKA ITS) (1988-Present).

External link

<http://fsd.usk.ac.id/intansyahrini/>