

NORIZAN MOHAMED

ASSOCIATE PROFESSOR

Associate Professor Dr. Norizan Mohamed received her Ph.D. degree in Statistics from Universiti Teknologi Malaysia (UTM) in February 2011. Then, in Mac 2014, UMT appointed her as the Associate Professor at School of Informatics and Applied Mathematics. Her research is focusing on combining parametric models with neural network models and solving several problems using Machine Learning. She has published articles in the high impact journals such as AIMS Mathematics, Elsevier, Risks, Big Data, and Taylor and Francis publishers. She is an editor in the JMSI journal under UMT and also an editor for Open Access Library Journal (OALibJ) and Journal of Economics and Business Management Reports. She was active in networking with international researchers.



RESEARCHER PROFILE

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EDUCATION



- Ph.D. in Statistics, UTM, Malaysia
- Master in Quality Control and Improvement, UKM, Malaysia
- B.Sc. in Statistics, UKM, Malaysia

SELECTED RESEARCH PROJECTS

✓ A new mathematical modeling of medical data by combining robust regression and multilayer feed-forward neural network approach for biostatistics, April 15, 2013 – October 14, 2015, FRGS, Vote No: 59266 (RM61,000).

✓ 3D Reconstruction of Historical Fragments using Advanced Mathematical Approach, November 1, 2019 – April 30, 2021, CRG (Collaborative Research Grant) UTM- National (Universiti Sains Islam Malaysia, Universiti Malaysia Terengganu, Universiti Teknologi Mara): (RM160,000)

AREAS OF EXPERTISE

- Time Series Forecasting
- Financial Time Series Forecasting
- Robust Regression
- Statistical Quality Control

SELECTED PUBLICATIONS

✓ Melina, Sukono, Herlina Napitupulu and Norizan Mohamed. Investment risk forecasting model using extreme value theory approach combined with machine learning. AIMS Mathematics, 9(11), 33314-33352, 2024, WoS Q1.

✓ Melina, Sukono, Herlina Napitupulu and Norizan Mohamed. Modelling of Machine Learning-Based Extreme Value Theory in Stock Investment Risk Prediction: A Systematic Literature Review. BIG DATA, 2024, Scopus Q1, WoS Q2.

✓ Melina, Sukono, Herlina Napitupulu and Norizan Mohamed. A Conceptual Model of Investment-Risk Prediction in the Stock Market Using Extreme Value Theory with Machine Learning: A Semisystematic Literature Review. RISKS (MDPI), 11(60), 1-24, 2023, Scopus Q1, WoS.

✓ Danang A. Pratama, Maharani A. Bakar, NurFadhilah Ibrahim, Ruwaidiah Idris and Norizan Mohamed. Physical restriction neural networks with restarting strategy for solving mathematical model of thermal heat equation for early diagnose breast cancer. Results in Applied Mathematics 19 (2023) 1000384, WoS.

✓ Maharani A. Bakar, Norizan Mohamed, Danang A. Pratama, M. Fawwaz A. Yusran, Nor Azida Aleng, Z. Yanuar and L. Niken. Modelling lock-down strictness for COVID-19 pandemic in ASEAN countries by using hybrid ARIMA-SVR and hybrid SER-ANN. Arab Journal of Basic and Applied Sciences, 28(1), 204-224, 2021, Scopus Q1.

SUPERVISION



COLLABORATORS

