

## KANDUNGAN / **CONTENTS**

Sept / Sept 2025

Missing Values Treatment in Agronomy Dataset Using PCA-Based Multiple Imputation (Bootstrap Versus Bayesian) <i>Rahimah Sallehuddin &amp; Norshahida Shaadan</i>	1
Input-Output Based Relation Combinatorial Testing Using Whale Optimization Algorithm for Generating Near Optimum Number of Test Suite <i>Anjila J Suali, Nuraminah Ramli, Rozmie Razif Othman, Hasneeza Liza Zakaria, Iszaidy Ismail, Nor Shahida Mohd Jamail, Rimuljo Hendradi &amp; Nurol Husna Che Rose</i>	21
Mathematical Model and Analysis of the Effect of Awareness Program on Diabetes Dynamic <i>Farhah Ramli &amp; Auni Aslah Mat Daud</i>	35
A Comparison of Decision Tree, Logistic Regression, Artificial Neural Network and Random Forest Algorithms to Predict Suicidal Ideation Among Young Adults in Malaysia <i>Chan Sin Yin &amp; Ch'ng Chee Keong</i>	61
Relationship Between Interactional Quality, Patients' Perceived Value and Patient Satisfaction in Military Hospital <i>Azman Ismail, Ummu Ajirah Abdul Rauf &amp; Nurshahira Ibrahim</i>	79
Bernstein Neural Networks Method for Solving Variable Order Fractional Mixed Volterra-Fredholm Integro-Differential Equations <i>Kawthar Alsa'di &amp; Nik Mohd Asri Nik Long</i>	99
Scalar-on-Function Regression for Modeling Climate Variable Associations <i>Yap Sook Mei &amp; Jamaludin Suhaila</i>	121
Mathematical Approaches for Understanding Harmful Algal Blooms in West Coast of Sabah <i>Fatin Nadiyah Mohamed Yussof &amp; Normah Maan</i>	139
Stress Intensity Factor for a Curvilinear Edge Crack in Bonded Planes Subjected to Tear Stress <i>Nur Hazirah Husin, Nik Mohd Asri Nik Long, Norazak Senu &amp; Khairum Hamzah</i>	151
Employing Hypersingular Integral Equations to Obtain Stress Intensity Factor for Two Slanted Cracks in Thermoelectric Bonded Materials <i>Muhammad Haziq Iqmal Mohd Nordin, Khairum Bin Hamzah, Iskandar Waini, Nik Mohd Asri Nik Long, Najiyah Safwa Khashi'ie &amp; Ahmad Yusof Ismail</i>	161

The Flow and Thermal Properties of Radiating Magnetohydrodynamics Hybrid Nanofluid over an Inclined Plane <i>Nanthini Balakrishnan, Siti Suzilliana Putri Binti Mohamed Isa &amp; Nurul Syuhada Ismail</i>	175
Optimising LSTM and BiLSTM Models for Time Series Forecasting Through Hyperparameter Tuning <i>Nur Haizum Abd Rahman, Quay Pin Yin &amp; Hani Syahida Zulkafli</i>	191
Fuzzy Decision-Making Model for Grocery Store Selection with Strength and Weakness Analysis <i>Nik Muhammad Farhan Hakim Nik Badrul Alam, Azwan Shah Aminuddin, Zul Adlan Mohd Hir, Muhammad Harriz Zaini &amp; Mohamad Iqbal Afham Mohd Afandi</i>	207
Analytical Hierarchy Process Approach for Basic Component and System Integration in Tactical Surveillance Unmanned Aerial Vehicles <i>Mohd Suhaimi Omar, Wan Hasrulnizam Wan Mahmood, Noor Irinah Omar, Nur Azmina Muhammad Haris Ong &amp; Abdurrahman Faris Indriya Himawan</i>	221
Second Hankel Determinant for New Subclass of Analytic Functions Associated with q-Derivative Operator <i>Tseu Suet Yie &amp; Aini Janteng</i>	239
Object Detection and Near-Miss Analysis in Traffic Videos of High and Low Quality Based on the YOLO Model <i>Zhu Wen, Lek Ming Lim, Majid Khan Majahar Ali, Lili Wu, Amr Elshahed &amp; Lee Jian Aun</i>	247
Historical Volatility Fluctuations of Bitcoin: Influenced by Real-World Events <i>Suleiman Dahir Mohamed, Mohd Tahir Ismail &amp; Majid Khan Bin Majahar Ali</i>	271
Inverse Estimation of Thermal Conductivity Parameters in Nonlinear Steady Heat Conduction Problems <i>Rafiqul Islam, M. Moksud Alam, S. M. A. Hoq &amp; Abdurahim Okhunov</i>	289
Risk Analysis of Blockchain Technology in Cross-Border E-Commerce Drug Traceability Using Analytic Hierarchy Process <i>Yuetong Yang, Hawa Hishamuddin &amp; Abdul Hadi Azman</i>	301
Financial Network Dynamics in Malaysian Markets: Exploring Bursa Indices Interdependencies from 2019 to 2023 <i>Hafizah Bahaludin &amp; Mohamed Faris Laham</i>	319