

TABLE OF CONTENT Vol. 18, 2023

Page

Rainfall Modelling and Forecasting Using Seasonal Autoregressive Integrated Moving Average (SARIMA) and Exponential Smoothing in Pahang and Terengganu, Malaysia Nur Hafizzah Samsulaiman, Norazlina Ismail	1-9
Analysis of Students' Perception on Digital E-Textbook Usage in Department of Mathematical Sciences, UTM Nur Hamizah Alias, Siti Mariam Norrulashikin	10-18
Bank Financial Statement Management using a Non-Preemptive Goal Programming model Nur Hanis Hamizan Sharul Latif, Taufiq Khairi Ahmad Khairuddin	19-26
Statistical Analysis of Violent Crime in Malaysia Nur Nabilah Fatini Mohd Zaki, Muhammad Fauzee Hamdan	27-32
Mathematical Modelling of Semi-Active and Active Car Suspension System Nur Syafiqah Ahmad, Taufiq Khairi Ahmad Khairuddin	33-38
Time Series Analysis On Sales Data of Petroleum in Malaysia Nur Syiffa Sam, Adina Najwa Kamarudin	39-47
Time Series Modelling and Forecasting of Kuantan Temperature Changes Based on Box-Jenkins	48-61

Nuramalia Farisha Mohd Rizal, Ani Shabri

Statistical Trend Analysis for Rainfall Data in Pahang and Terengganu, Malaysia Nurdiana Kamilia Mohd Faizal, Norazlina Ismail	62-70
Wavelet Coherence Analysis on Crude Oil Prices And Stock Market Prices of Retail Companies In Malaysia Nurin Amira Arezan Norizam, Norhaiza Ahmad	71-75
Survival Analysis and Factors of Heart Failure Disease Nursaidatul Husna Norsuhaimi, Noraslinda Mohamed Ismail	76-81
Statistical Analysis of Rainfall With Principal Components Regression Analysis Technique Nurul Aqilah Zulkipli, Muhammad Fauzee Hamdan	82-91
Life Expectancy of COVID-19 Vaccination Recipients with Comorbidities Nurul Asyiqin Mawarid, Noraslinda Mohamed Ismail	92-97
Groundwater Level Prediction Based on River Water Level Using Stochastic Differential Equation (SDE) Nurul Izzah Jefri, Arifah Bahar	98-106
Particle Swarm Optimization Approach for the Portfolio Optimization Problem Ooi Chong Eu, Nur Arina Bazilah Aziz	107-111
One-Dimensional Advection-Dispersion Equation of Pollutant Concentration Rachel Chong Kar Yan, Zaiton Mat Isa	112-120
Predicting Stock Price Movement Statistically Radedo Jeremy Siagiain, Adina Najwa Kamarudin	121-126
Mathematical Modelling of Harmful Algal Blooms Using Nonlinear Ordinary Differential Equation Sharisha Adira Sakawi, Normah Maan	127-135

Solving Mixed Convection Boundary Layer Flow of Viscoelastic Hybrid Nanofluid Past Over a Sphere Sufia Aainaa Razali, Wan Rukaida Wan Abdullah	136-144
Optimizing the Location of Electric Car Charging Stations Using TOPSIS and Fuzzy TOPSIS Method Syazana Su'aib, Hang See Pheng	145-154
Solving Distribution of Petrol Among Petrol Stations Based on Travelling Salesman Problem Using Tabu Search Tan Zhen Hong, Wan Rohaizad Wan Ibrahim	155-164
Nurse Scheduling in Hospital Emergency Department using Goal Programming Tengku Nurfakhira Tengku Farid, Hang See Pheng	165-173
Solving Route Planning in Harvest Operation of Corn Based on Travelling Salesman Problem Using Simulated Annealing Walimah Adi, Wan Rohaizad Wan Ibrahim	174-180
Time Series Forecasting of Daily COVID-19 Cases in Malaysia Yap Say Nee, Adina Najwa Kamarudin	181-194
Time Series Forecasting of Polypropylene Prices for Strategic Production Planning Yong Hor Ying, Arifah Bahar	195-206
Analytical Solution for Steady and Coupled Advection- Dispersion Equation of Pollutant Concentration in River Zafirah Aida Alexzman, Zaiton Mat Isa	207-212
Demoralize the Fake Review in Business by Using Game Theory Siti Syaza Abd Shukor, Zaitul Marlizawati Zainuddin	213-221
Image Segementation On Satelite Images of Nusajaya With Numerical Modification Using Jacobi And Gauss Siedel Nur Izati Mohd Izuddin Shah, Norma Alias	222-226