

## PARALLEL SESSIONS

DAY 1   3 DECEMBER 2024					
TIME	JADEITE 1	JADEITE 2 Parallel session 1A Statistics Chairperson: Dr. Syaiba Balqish Ariffin @ Mat Zin	PERIDOT 3 Parallel session 1B Artificial Intelligence Chairperson: Dr. Rosmanjawati Abdul Rahman	PERIDOT 4 Parallel session 1C Data Science Chairperson: Assoc. Prof. Dr. Gobithaasan Rudrusamy	CITRINE
14:00 – 14:20		MATHTECH 2024-0208 Refined Strategies for Robust Outlier Detection in Binary Logistic Regression Syaiba Balqish Ariffin @ Mat Zin	MATHTECH 2024-0105 Assessment of Deep Learning Models for Predicting COVID-19 Severe and Critical Cases Post Pandemic Shawn Aswin Co	MATHTECH 2024-0119 The Efficacy of Weight Control in Persistence Vectors Detecting Geometrical and Topological Features from Point Cloud Gobithaasan Rudrusamy	
14:20 – 14:40		MATHTECH 2024-0106 A Multinomial Logit Analysis of Environmental Determinants Affecting Road Crash Severity in Selangor, Malaysia Muhammad Fadhirul Anuar Mohd Azami	MATHTECH 2024-0115 Prediction of Power Output from Wave Energy Converters Based on Gradient Boosting Model: A Case Study in Sydney, Australia Gao Han	MATHTECH 2024-0081 Similarity-Based Network in the Industrial Community of Joyo City Keita Takeuchi	
14:40 – 15:00	INVITED TALK ON TECHNOLOGY UPDATES Inspiring STEM Education with Texas Instruments' Innovative Solutions	MATHTECH 2024-0108 Optimal Winsorization and Imputation of Outliers in Fitting Polynomial Regression of Weekly Dengue Surveillance Data Joseph Ludwin D.C. Marigmen	MATHTECH 2024-0131 Efficient Modelling of Mangrove Forest Dynamics Using Convolutional Neural Networks Alireza Daneshkhah	MATHTECH 2024-0040 Spillover Effects Analysis Between Volatility and Liquidity of WTI Using VAR Zhuqin Liang	WORKSHOP 1 Numerical Tools for Systems of Delay Differential
15:00 – 15:20	Ts. Puteri Anis Aneeza Zakaria	MATHTECH 2024-0153 Zero-Inflated Negative Binomial Regression and Its Application Ermawati	MATHTECH 2024-0102 Point Cloud Processing and Classification Using Graph Neural Networks Shin Ying Lim	MATHTECH 2024-0135 Utilizing Financial Reports and Machine Learning for Predicting Financial Distress in Indonesian Industrial Companies Ferry Vincenttius Ferdinand	Equations  Professor Dr.  Juancho A.  Collera
15:20 – 15:40		MATHTECH 2024-0178 Unveiling Parking Patterns: A Comparative Study of Model Fitting Methods for Arrival, Departure, and Duration in Diverse Environmental Settings Zhi Xuen Lim	MATHTECH 2024-0147 G-Type Random Weighted k-Satisfiability of k ≤ 3 Logical Representation with Election in Discrete Hopfield Neural Network Amierah Abdul Malik	MATHTECH 2024-0136 Comparison of ANN and MDA Methods for Predicting Financial Distress in Indonesian Industrial Sector Companies Ferry Vincenttius Ferdinand	
15:40 – 16:00		MATHTECH 2024-0093 Fitting Probability Distributions to COVID-19 Cases of Baguio City, Philippines Using Maximum Likelihood Estimation with Optimal Trimming and Outlier Elimination Criselda P. Libatique	MATHTECH 2024-0034 A Comparative Study on the Least Square Method and Artificial Neural Network for Linear and Quadratic Curve Fitting Siti Sarah Raseli	MATHTECH 2024-0118 Deep Learning Approaches for Efficient Uncertainty Quantification in High-Dimensional PDE-Based Models Alireza Daneshkhah	

DAY 2   4 DECEMBER 2024 (Malaysia Time)					
TIME	JADEITE 1 Parallel session 2A Pure Mathematics Chairperson: Dr. Noor A'lawiah Abd Aziz	JADEITE 2 Parallel session 2B Applied Mathematics Chairperson: Dr. Norazrizal Aswad Abdul Rahman	PERIDOT 3 Parallel session 2C Operations Research Chairperson: Dr. Majid Khan Majahar Ali	PERIDOT 4 Parallel session 2D Virtual Presentation Chairperson: Dr. Siti Amirah Abd Rahman	CITRINE
8:30 – 8:50 8:50 – 9:10	INVITED 1 Relationship Between Degree-Based Topological Indices with Domination Parameters in Graphs  Professor Dr. Roslan Hasni @ Abdullah	MATHTECH 2024-0061 Multidimensional Integrated Projection Similarity Measure for Neutrosophic Fuzzy Set Norazrizal Aswad Abdul Rahman MATHTECH 2024-0070 Transformation from Bi-CG into Bi-CR Using a Residual Smoothing-like Scheme	MATHTECH 2024-0060 Duality Theorem for Max-Plus Algebraic Determinants Yuki Nishida  MATHTECH 2024-0129 Locating Parcel Locker Facilities in Pulau Pinang Island Using K-Means Clustering with Modified	MATHTECH 2024-0008 The Impact of Calculator and Non-calculator Math Papers on Pre-university Students' Performance Kamariah Aliman  MATHTECH 2024-0025 E-Module Development with a STEAM Approach to Building Materials for Curved Side Spaces	
		Kensuke Aihara	Further-Point First Heuristics Nazmi Syazwan Shahruddin	M. Fikri Hamdani	
9:10 - 9:30	MATHTECH 2024-0046 Exploring Divisor Function Graphs: Generalized Properties and Topological Indices Jerwin G. De Leon	MATHTECH 2024-0042 An Algorithm to Construct a Tridiagonal Matrix Factored by Bidiagonal Matrices with Prescribed Eigenvalues and Specified Entries Koichi Kondo	MATHTECH 2024-0130 Foundation Model for Handling Traffic Congestion on a Highway with Autonomous Vehicles Using a Priority- Tree-Based Coordination Method and Dragonfly Algorithm Chua Jing Ting	MATHTECH 2024-0075 On the Diophantine Equation $2^a p x^4 + y^4 = z^4$ Richard J. Taclay	WORKSHOP 2 Don't Make Ugly Graphs, Make Beautiful Graphs with GRID in R!
9:30 - 9:50	MATHTECH 2024-0039 Twin Chromatic Indices of Some Circulant Graphs Jayson D. Tolentino	MATHTECH 2024-0151 Inverse Eigenvalue Problem for Periodic Jacobi Matrix Kanae Akaiwa	MATHTECH 2024-0160 Load Integration in Local Search Operators for Intra-Route Pickup Green Vehicle Routing Problem Muhammad Syarif Ghazali	MATHTECH 2024-0086 Solving the Indefinite Least Squares Problem Using Permuted Hyperbolic Rotations Annie Lyn O. Yusiong	Prof. Dr. Alex R. Cook
9:50 – 10:10	MATHTECH 2024-0066 Set Chromatic Number of the Comb Product of Complete Graphs with Trees Mark Anthony C. Tolentino	MATHTECH 2024-0080  Multi-State Cellular  Automata with Conserved  Quantities of Polynomial  Form  Akiko Fukuda	MATHTECH 2024-0199 Scenario Analysis of Land Use Assignment with Neighbourhood Constraints Destiny S. Lutero	MATHTECH 2024-0214 On the Existence of Continuous Solutions to Singular Elliptic Problems Involving Several Sublinear Terms Toe Toe Shwe	
10:10 - 10:30	MATHTECH 2024-0107 Identification Number of Antiprism Graphs Mark Anthony C. Tolentino	MATHTECH 2024-0069 Direct Three-Point Multistep Block Method for Solving Second-Order Boundary Value Problems Najihah Mohd Noor	MATHTECH 2024-0140 Evaluating Indonesia's Government Pension Security Through the Survivor-Mortality Bond Scenario Helena Margaretha	MATHTECH 2024-0122 Generalized Mittag-Leffler Kernels of Three Parameters for Solving Heat Equation Abdallah Alshbeel	

DAY 2   4 DECEMBER 2024 (Malaysia Time)					
TIME	JADEITE 1 Parallel session 3A Pure Mathematics Chairperson: Dr. Nabilah Najmuddin	JADEITE 2 Parallel session 3B Applied Mathematics Chairperson: Dr. Ummu Atiqah Mohd Roslan	PERIDOT 3 Parallel session 3C Statistics Chairperson: Dr. Zainudin Arsad	PERIDOT 4 Parallel session 3D Virtual Presentation Chairperson: Dr. Ong Wen Eng	CITRINE
10:50 – 11:10	MATHTECH 2024-0038  On Twin Chromatic Mean Indices of Generalized Stars and Double Stars Eleazar B. Bernales	MATHTECH 2024-0097 Mathematical Modelling of Sea Turtle Ecology: Prey-Predator Interactions with Stage-Structured Dynamics in Prey Populations Ummu Atiqah Mohd Roslan	MATHTECH 2024-0198 Investigating the Role of Institutional Quality and Importance of Renewable Energy on Carbon Emission in Asian and European Countries Zainudin Arsad	MATHTECH 2024-0011 Bridging Deterministic and Stochastic Models: Insights for Epidemic Control Strategies Fahad Awadh Al-Abri	
11:10 - 11:30	MATHTECH 2024-0052 A Modified Cayley Transform: Motivation, Some Properties and Applications Roden Jason A. David	MATHTECH 2024-0099 Topological Graph Representation of Haze Episodes Using the Mapper Algorithm with Multiple Distance Metrics Vine Nwabuisi Madukpe	MATHTECH 2024-0100 An ARIMA-GARCH Approach on the Econometric Forecasting of Sugar Retail Price and Sugarcane Production in the Philippines Danah Mae P. del Mundo	MATHTECH 2024-0030  Mathematical Modelling of Competitive Dynamics Between Species with Allee Effect Mohammad Ibrahim Alrajoodi	
11:30 – 11:50	MATHTECH 2024-0054 Proving One-Dimensional Convergence of Trinomial Random Walks Conditioned on End Points via Stein's Method Wasamon Jantai	MATHTECH 2024-0065 The Roles of the Apex Facultative Scavenger Harvesting Activity on the Stability of the Fishery System with Prey Carrion Biomass Resources Wan Natasha Wan Hussin	MATHTECH 2024-0165 TBATS Forecasting Model: A Time Series Analysis of Dengue Incidence and Average Monthly Rainfall in Baguio City Ryanne Andrei Concepcion	MATHTECH 2024-0145 The Dynamics of SARS-CoV-2 mRNA Vaccine, Innate and Adaptive Immunity Within a Human Host Using a Fractional Model Emmanuel A. Nwaibeh	WORKSHOP 3  Mastering PhotoMath for Educators  Ts. Dr.
11:50 – 12:10	MATHTECH 2024-0109 On Polynomial Analogue of the Jeśmanowicz Conjecture Justin L. Vizcara	MATHTECH 2024-0200 Water Level Analysis Using Mapper Algorithm for Flood Detection Syed Mohamad Sadiq Syed Musa	MATHTECH 2024-0195 The Impact of Economic Growth, Energy Consumption, Rule of Law and Corruption on Carbon Emission in Asian Countries Zainudin Arsad	MATHTECH 2024-0032 Bifurcation Analysis of a Modified SIR-Based COVID-19 Model with Nonlinear Incidence and Recovery Rates Abubakar Shehu Sidi	Mageswaran Sanmugam
12:10 - 12:30	MATHTECH 2024-0087 On the Spectral Theory of a Generalization of the Random Period Doubling Substitution Jim Ralphealo Mijares	MATHTECH 2024-0193 Modelling the Dynamics of Ducks for the Control of Golden Apple Snail (Pomacea canaliculata) in Rice Paddies Noemi Ann S. De Guzman	MATHTECH 2024-0124 Evidence of Global Warming in Asia and Australasia Zainudin Arsad	MATHTECH 2024-0007 Collective Dynamics in Spiking Neural Networks: A Systematic Review Afifurrahman	
12:30 - 12:50	MATHTECH 2024-0074 Study of Darcy-Bénard Convection of Alloy Nanoliquid/Nanoliquid Saturated Porous Medium Using Heatlines Approach Lakshmi K. M.	MATHTECH 2024-0182 Simulation of Coupled Spring-Mass System Using Physics-Informed Neural Network with Chebyshev Functional Expansion Danang A Pratama	MATHTECH 2024-0103  Examining the Characteristics of Tobacco Consumers Among University Students in Malaysia Md Zobaer Hasan	MATHTECH 2024-0064 Integer Hourglass Matrix Dlal Bashir	

	DAY 2   4 DECEMBER 2024 (Malaysia Time)				
TIME	JADEITE 1 Parallel session 4A Applied Mathematics & Complex System Modelling Chairperson: Dr. Amirah Azmi	JADEITE 2 Parallel session 4B Pure Mathematics Chairperson: Dr. Johnny Lim Khai Yang	PERIDOT 3 Parallel session 4C Statistics Chairperson: Assoc. Prof. Dr. Mohd. Tahir Ismail	PERIDOT 4 Parallel session 4D Virtual Presentation Chairperson: Dr. Siti Amirah Abd Rahman	CITRINE
14:00 – 14:20 14:20 – 14:40	INVITED 2 Time-Delay Systems and Applications  Professor Dr. Juancho A. Collera	MATHTECH 2024-0126 On the Strong Chromatic Index of the Middle Graph of Graphs Trixie C. Almayda  MATHTECH 2024-0134 Exploring Weak Chain W-Complexes in Simplicial Complexes and Persistent W-Homology for Topological Data Analysis Intan Muchtadi-Alamsyah	MATHTECH 2024-0079 Election Fraud Detection Using Statistical Methods: The Case of the Philippine National Elections 2022 Jeric Briones  MATHTECH 2024-0085 Chess Performance and Critical Thinking Disposition of Varsity Chess Players in Selected Universities in Central Luzon Jeff Barry V. Villora	MATHTECH 2024-0092 Analysis of Spatio-Temporal Distribution of Acute Gastroenteritis Incidence in Pangasinan, Ilocos Region Daniel Bezalel A. Garcia MATHTECH 2024-0158 Comparison of Gold Price Predictions Using Random Forest and Support Vector Regression Methods Lina Cahyadi	
14:40 – 15:00	MATHTECH 2024-0095 Numerical Simulations of a Reversed Bounded Confidence Model with Strong Opinions Ronmar B. Macarubbo	MATHTECH 2024-0144 The Characterizations of Rank One and Rank Two Self-Loop Graphs Xin Yi Li	MATHTECH 2024-0191 DESA Optimization: Enhancing Gaussian Models for Dengue Outbreaks Rizavel C. Addawe	MATHTECH 2024-0018 Investigating the Impact of African Data Points Sequencing Interval on Renewable Energy Consumption and Production, CO <sub>2</sub> Emission, and Economic Growth Alhaji Abdullahi Gwani	
15:00 – 15:20	MATHTECH 2024-0077 Hopf Bifurcation in a Delay-Coupled Neuron System with Leakage Delay Ronnel John A. Garcia	MATHTECH 2024-0152 Perfect 2-Colorings of 6-Regular Toroidal Graphs Florence Baclig & Jeanelle Ibañez	MATHTECH 2024-0120 Crisis Management Plans in Malaysian Higher Education Institutions During COVID-19 Pandemic: Perspectives of Academic Staff Kian Wah Liew	MATHTECH 2024-0013 Sustainable Resource Management in the Palm Oil Industry: A Mathematical Insight with LSTM Autoencoder Applications Nur Rusyidah Azri	WORKSHOP 4 Introduction to Python Programming: From Setup to GUI with Applications in Mathematics
15:20 – 15:40	MATHTECH 2024-0188 Stability in a Fractional-Order Language Competition Model Daryl Allen B. Saddi	MATHTECH 2024-0184 A Public-Key Cryptosystem Based on High Symmetry Complexity Graphs Xiao Shi Jiao	MATHTECH 2024-0137 Prediction of COVID-19 Daily Cases in Penang Island: An Application of Stochastic Method Fauhatuz Zahroh Shaik Abdullah	MATHTECH 2024-0024 A New Family of Binary Approximating Subdivision Schemes and Its Applications Alvina Shakir	and Al  Ts. Dr. Wan Nor  Munirah Ariffin  &  Dr. Logenthiran  Machap
15:40 - 16:00	MATHTECH 2024-0073 Effects of Skin Thermoregulation Delay in a Dynamical Model of Heat Transfer in an Infant Incubator Kenneth Ivan B. Ramos & Alfred Devon D. Tolentino	MATHTECH 2024-0204 Invariants of Quasi-Alternating Knots Nafaa Chbili	MATHTECH 2024-0174 Cumulative Sum (CUSUM) and Exponentially Weighted Moving Average (EWMA) Control Charts Approaches in Monitoring Crime Rate in Malaysia Teng Mei Tuan	MATHTECH 2024-0157 Modelling Parcel Locker Queueing System Using Discrete Event Simulation Ooi Jing Yin	
16:00 – 16:20	MATHTECH 2024-0094 Dynamics of Tumour-Immune System Interaction Model with Time Delays Using Gompertz Equation Deegie Garcia-Elopre	MATHTECH 2024-0209  Bounds and Exact Values of the Weakly Connected k-Rainbow Domination Number in Special Graph Classes  Jamil J. Hamja	MATHTECH 2024-0138 Performance of t Control Chart in the Presence of Estimation Errors for Short Production Runs over a Range of Mean Shifts Ng Peh Sang	MATHTECH 2024-0196 Statistical Patterns of Solutions to a Stochastic Compartmental Model of HIV/AIDS Transmission Andhee Jacobe	
16:20 – 16:40	MATHTECH 2024-0141  Evaluating the  Effectiveness of ENSO Index-Based Insurance Contracts in Japanese  Agriculture  Helena Margaretha	MATHTECH 2024-0076 Rayleigh-Bénard Convection in Cylindrical Enclosures: State-of-the-Art Pradeep G. Siddheshwar	MATHTECH 2024-0117 Consistency of Familial DNA Search Results in Southeast Asian Populations Monchai Kooakachai	MATHTECH 2024-0197 The Application of FFT Denoising for ANN, ARIMA and ANN-ARIMA Predictions Christian Aiphie G. Bitanga	

	DAY 3   5 DECEMBER 2024				
TIME	JADEITE 1 Parallel session 5A Applied Mathematics Chairperson: Dr. Adila Aida Azahar	JADEITE 2 Parallel session 5B STEM Education Chairperson: Assoc. Prof. Dr. Ang Miin Huey	PERIDOT 3 Parallel session 5C Interdisciplinary Mathematics Chairperson: Dr. Muhammad Fadhil Marsani	PERIDOT 4 Parallel session 5D Applied Mathematics Chairperson: Assoc. Prof. Dr. Lok Yian Yian	CITRINE
8:30 – 8:50	INVITED 3 Exploring the Impact of Migration and Spatial	MATHTECH 2024-0068 Improving Students' Engagement in Learning Mathematics via Automated Assessment System Chee Wing Loon	MATHTECH 2024-0057 Consensus Convergence of Multi-Agent Systems Controlled via Geometric Quadratic Stochastic Operators Siti Nurlaili Karim	MATHTECH 2024-0185 Bioconvection Flow in a Suspension of Gyrotactic Microorganisms and Nanoparticles Towards a Stagnation Point with Slip Conditions Lok Yian Yian	
8:50 – 9:10	Heterogeneity on the Dynamics of a Tick-Borne Disease Assoc. Prof. Dr. Faraimunashe Chirove	MATHTECH 2024-0133  Mathematical Error Patterns and Problem-Solving Strategies Among Junior High Students with Mathematical Learning Difficulties in Palawan: A Mixed-Methods Approach Prince Jobetroh N. Cabaya Cuz	MATHTECH 2024-0044 Visualizing Arithmetic Algorithm – Building Bridge Between Mathematics and Art by Programming Maho Suzuki	MATHTECH 2024-0078 Flow and Heat Transmission Analysis of Rayleigh-Bénard Convection Driven by Newtonian Fluid with Colloidal Suspension Sindhu S.	
9:10 - 9:30	MATHTECH 2024-0029 Bifurcation Analysis of an SVIR Epidemic Model with Partial Immunity Amer M. Mohammed	MATHTECH 2024-0139 Spatial Reasoning as Predictor of Pre-service Elementary Teachers' Achievement in Geometry Marielle Reyes	MATHTECH 2024-0180 A Liang-Kleeman Causality Analysis Based on Linear Inverse Modelling Justin Lien	MATHTECH 2024-0056  Mixed Convection of Double-Diffusive Tri-Hybrid Nanofluid over Vertical Surface Under Convective Boundary Conditions Kohilavani Naganthran	Image Classification, Identification and Near Miss Detection Using You Only Look Once (YOLO) From
9:30 – 9:50	MATHTECH 2024-0146 Stability Analysis on the Spread of Polio with Vaccination and Maternal Antibody Hikmawati Pathuddin	MATHTECH 2024-0143 Mediating Effect of Mathematical Self-Efficacy on the Relationship Between Metacognitive Skills and Mathematical Creativity Mark Lester Quiambao	MATHTECH 2024-0166 Circulant Graph Attention Networks for Transformer-Based Translation Machine Euis Asriani	MATHTECH 2024-0049 Analysis of Magnetohydrodynamic Mixed Convection Flow over a Vertical Stretching Sheet with the Influence of Heat Generation/Absorption Abubakar Sadiq Ndagara	CCTV Data  Dr. Majid Khan Majahar Ali & Assoc. Prof. Dr Ahmad Sufril Azlan Mohamed
9:50 – 10:10	MATHTECH 2024-0110  Mathematical Analysis of the Transmission  Dynamics of Japanese  Encephalitis  Aprimelle Kris J. Pajimola	MATHTECH 2024-0164 Computational Thinking Skills as a Predictor of Mathematical Problem-Solving Performance Among Preservice Elementary Teachers Rasel John C. Buenavista	MATHTECH 2024-0059 Quasigroup-Based DNA Cryptography Tiong Yih Lian		
10:10 - 10:30	MATHTECH 2024-0091 Asymptotic Behaviour of Solutions to a Vector-Borne Disease Model with Continuous Time-Varying Transmission Rates Timothy Robin Y. Teng	MATHTECH 2024-0177 Interplay Between Teachers' Perceived Usefulness and Extent of Integrating Technology in Teaching Mathematics with Their Openness to Innovation Eulrich S. Almonte	MATHTECH 2024-0203 A Study on Weight Initialization Strategies for Training ANN-SVD Models in Medical Data Classification Nur Fadhilah Ibrahim		

	DAY 3	5 DECEMBER 2024	
TIME	PERIDOT 3 Parallel session 6A Financial Mathematics Chairperson: Assoc. Prof. Dr. Sek Siok Kun	PERIDOT 4 Parallel session 6B Applied Mathematics Chairperson: Dr. Yazariah Mohd Yatim	CITRINE Parallel session 6C Applied Mathematics Chairperson: Assoc. Prof. Dr. Gobithaasan Rudrusamy
10:50 – 11:10	MATHTECH 2024-0132 Cryptocurrency Taxation: An Analysis on the Cryptocurrency Model with Imposed Tax Israel Portugal	MATHTECH 2024-0010 Projected Scenarios of Dengue Outbreak Based on CMIP6 SSP Scenarios Xinyi Lu	MATHTECH 2024-0048 Extension of the Spiral of Theodorus Kenjiro T. Miura
11:10 - 11:30	MATHTECH 2024-0150 British Put Option Pricing Under Mixed Fractional Brownian Motion Environment Michele Marie F. Mahinay	MATHTECH 2024-0170 Forecasting Climate-Driven Dengue Incidence in Penang, Malaysia Xinyi Lu	MATHTECH 2024-0210 Stability Analysis of B-Spline Alternating Group Explicit Method Nur Aliah Izzati Rosman
11:30 - 11:50	MATHTECH 2024-0192 Regression Analysis on the Modifications of Fama and French Five-Factor Model Applied to Philippine Common Stocks from 2013-2020 Florence Carl A. Tilano	MATHTECH 2024-0067 Immunity Derived from Vaccination and Past Infection: A Model for the COVID-19 Transmission Dynamics Elvira P. de Lara-Tuprio	MATHTECH 2024-0155 Discretization and Associated Asymptotic Behaviour for the Lax Equation with Skew-Symmetry Masato Shinjo
11:50 – 12:10		MATHTECH 2024-0035  A Mathematical Analysis of a COVID-19 SVEIQR Compartmental Model with Time-Varying Disease Transmission Rate Lu Christian S. Ong	MATHTECH 2024-0036 Solution Generating Modified Two Theorems for Schwarzschild Static Einstein-Gauss-Bonnet Metrics Petarpa Boonserm
12:10 - 12:30		MATHTECH 2024-0031 The Belousov-Zhabotinsky Chemical Reaction: A Review of Mathematical Modelling Techniques and Some Extended Analysis Nor Hizamiyani Abdul Azziz	MATHTECH 2024-0189 Comparison of Gradient-Free Optimization Algorithms in Fitting the Log-Periodic Power Law Michael Andrew G. Lontoc