

# CONFERENCE PROGRAMME

INTERNATIONAL CONFERENCE ON MATHEMATICAL SCIENCES AND TECHNOLOGY 2018

MATHTECH 2018

10 – 12 DECEMBER 2018

## Day 0 | 9 Dec 2018

18:00 – 21:00 Early Registration *Fountain Terrace*

## Day 1 | 10 Dec 2018

08:00 – 08:45	Registration	<i>Matahari Foyer</i>
08:45 – 09:00	Welcome Speech	<i>Matahari Ballroom</i>
09:00 – 10:00	<b>Plenary Session 1</b>	<i>Matahari Ballroom</i>
10:00 – 10:20	Photography Session	<i>Matahari Ballroom</i>
10:20 – 10:40	Refreshment	<i>Matahari Foyer</i>
10:40 – 11:40	<b>Plenary Session 2</b>	<i>Matahari Ballroom</i>
11:40 – 12:40	<b>Plenary Session 3</b>	<i>Matahari Ballroom</i>
12:40 – 14:00	Lunch	<i>Etoile Room</i>
14:00 – 16:00	<b>Invited Session 1</b> <b>Invited Session 2</b> <b>PERCEPTRON – A Smart Data Science Platform for Education</b> <b>Parallel Sessions 1</b>	<i>Matahari Ballroom II</i> <i>Matahari Ballroom II</i>  <i>Matahari Ballroom II</i> <i>1A - Matahari Ballroom I</i> <i>1B - Matahari Ballroom III</i> <i>1C - Mawar Room</i> <i>1D - Melati Room</i>
16:00 – 16:20	Refreshment	<i>Matahari Foyer</i>
16:20 – 18:00	<b>Workshop 1</b> <b>A Data Statistics Journey with TIBCO Statistica</b> <b>Parallel Sessions 2</b>	<i>Matahari Ballroom I</i>  <i>Matahari Ballroom I</i> <i>2A - Matahari Ballroom II</i> <i>2B - Matahari Ballroom III</i> <i>2C - Mawar Room</i> <i>2D - Melati Room</i>
19:45 – 22:30	<b>Opening Ceremony</b> Dinner	<i>Matahari Ballroom</i>

**Day 2 | 11 Dec 2018**

08:20 – 10:20	<b>Invited Session 3</b> <b>Workshop 2</b> <b>Parallel Sessions 3</b>	<i>Matahari Ballroom II</i> <i>Raya Room</i> <i>3A - Matahari Ballroom I</i> <i>3B - Matahari Ballroom II</i> <i>3C - Matahari Ballroom III</i> <i>3D - Mawar Room</i>
10:20 – 10:40	Refreshment	<i>Matahari Foyer</i>
10:40 – 12:40	<b>Workshop 3</b> <b>Workshop 4</b> <b>Parallel Sessions 4</b>	<i>Matahari Ballroom I</i> <i>Raya Room</i> <i>4A - Matahari Ballroom II</i> <i>4B - Matahari Ballroom III</i> <i>4C - Mawar Room</i>
12:40 – 14:00	Lunch	<i>Etoile Room</i>
14:00 – 16:00	<b>Parallel Sessions 5</b>	<i>5A - Matahari Ballroom I</i> <i>5B - Matahari Ballroom II</i> <i>5C - Matahari Ballroom III</i> <i>5D - Mawar Room</i> <i>5E - Raya Room</i>
16:00 – 16:20	Refreshment	<i>Matahari Foyer</i>
16:20 – 18:00	<b>Workshop 5</b> <b>Parallel Sessions 6</b>	<i>Raya Room</i> <i>6A - Matahari Ballroom I</i> <i>6B - Matahari Ballroom II</i> <i>6C - Matahari Ballroom III</i> <i>6D - Mawar Room</i>

**Day 3 | 12 Dec 2018**

08:20 – 10:20	<b>Workshop 6</b> <b>Parallel Sessions 7</b>	<i>Matahari Ballroom I</i> <i>7A - Matahari Ballroom II</i> <i>7B - Matahari Ballroom III</i> <i>7C - Mawar Room</i> <i>7D - Raya Room</i>
10:20 – 10:40	Refreshment	<i>Matahari Foyer</i>
10:40 – 12:40	<b>Workshop 7</b> <b>Parallel Sessions 8</b>	<i>Matahari Ballroom I</i> <i>8A - Matahari Ballroom II</i> <i>8B - Matahari Ballroom III</i> <i>8C - Mawar Room</i> <i>8D - Raya Room</i>
12:40 – 14:00	Lunch	<i>Matahari Foyer</i>
14:00 – 16:20	<b>Workshop 8</b> <b>Parallel Sessions 9</b>	<i>Matahari Ballroom I</i> <i>9A - Matahari Ballroom II</i> <i>9B - Matahari Ballroom III</i> <i>9C - Mawar Room</i> <i>9D - Raya Room</i>
16:20 – 16:30	Closing Remark	<i>Matahari Ballroom II</i>
16:30 – 16:50	Refreshment	<i>Matahari Foyer</i>

## **DAY 1 – 10 DEC 2018**

08:00 – 08:45: Registration

08:45 – 09:00: Welcome Speech

Time	Matahari Ballroom
09:00 – 10:00	Plenary Session 1 <b>QMH Prof. Dr. M. Ataharul Islam</b>

10:00 – 10:20: Photography Session

10:20 – 10:40: Refreshment

Time	Matahari Ballroom
10:40 – 11:40	Plenary Session 2 <b>Assoc. Prof. Dr. Tan Seng Chee</b>
11:40 – 12:40	Plenary Session 3 <b>Prof. Dr. Mohamed Ridza Wahiddin</b>

12:40 – 14:00: Lunch

14:00 – 16:00: Invited Session 1 + Invited Session 2 + Parallel Sessions 1

Time	Matahari Ballroom I (Session 1A)	Matahari Ballroom II	Matahari Ballroom III (Session 1B)	Mawar Room (Session 1C)	Melati Room (Session 1D)
14:00 – 14:20	AM22	Invited Session 1 <b>Dr. Ng Wee Leng</b>	PM17	ST29	IM17
14:20 – 14:40	AM15		PM09	ST25	IM02
14:40 – 15:00	AM66	Invited Session 2 <b>Dr. Lee Wen Jau</b>	PM10	ST07	ME13
15:00 – 15:20	AM61		PM07	ST23	ME03
15:20 – 15:40	AM43	<i>PERCEPTRON – A Smart Data Science Platform for Education</i>	PM16	ST19	IM19
15:40 – 16:00	AM63		PM01	FM15	IM09

16:00 – 16:20: Refreshment

16:20 – 18:00: Workshop 1 + Parallel Sessions 2

Time	Matahari Ballroom I	Matahari Ballroom II (Session 2A)	Matahari Ballroom III (Session 2B)	Mawar Room (Session 2C)	Melati Room (Session 2D)
16:20 – 16:40	Workshop 1 <i>Mathematical Problem Solving with TI-Nspire CX CAS</i>	MT06	FM09	OR12	IM01
16:40 – 17:00		MT03	FM16	OR17	IM18
17:00 – 17:20		MT08	FM04	OR16	IM16
17:20 – 17:40	<i>A Data Statistics Journey with TIBCO Statistica</i>	MT09	FM03	OR13	ME09
17:40 – 18:00				OR08	ME01

19:45 – 22:30: Opening Ceremony + Dinner

## DAY 2 – 11 DEC 2018

08:20 – 10:20: Invited Session 3 + Workshop 2 + Parallel Sessions 3

Time	Matahari Ballroom I (Session 3A)	Matahari Ballroom II (Session 3B)	Matahari Ballroom III (Session 3C)	Mawar Room (Session 3D)	Raya Room
08:20 – 08:40	AM71	ME02	AM37	PM05	Workshop 2 <i>Introduction to Latex</i>
08:40 – 09:00	AM62	ME05	AM26	PM15	
09:00 – 09:20	AM42	ME06	AM29	PM21	
09:20 – 09:40	AM49	ME08	AM46	PM22	
09:40 – 10:00	AM38	Invited Session 3 Prof. Dr. Dan Seth	AM47	PM14	
10:00 – 10:20	AM55		AM33	PM12	

10:20 – 10:40: Refreshment

10:40 – 12:40: Workshop 3 + Workshop 4 + Parallel Sessions 4

Time	Matahari Ballroom I	Matahari Ballroom II (Session 4A)	Matahari Ballroom III (Session 4B)	Mawar Room (Session 4C)	Raya Room
10:40 – 11:00	Workshop 3 <i>Stem Practices with TI-Nspire Technology + Explore Ratios and Scales with Graphing Calculators</i>	ST26	AM31	MT04	Workshop 4 <i>Get Started with Python</i>
11:00 – 11:20		ST08	AM25	MT15	
11:20 – 11:40		ST04	AM06	MT02	
11:40 – 12:00		ST17	AM04	MT14	
12:00 – 12:20		ST14	AM52	MT05	
12:20 – 12:40		ST18	AM03	MT10	

12:40 – 14:00: Lunch

14:00 – 16:00: Parallel Sessions 5

Time	Matahari Ballroom I (Session 5A)	Matahari Ballroom II (Session 5B)	Matahari Ballroom III (Session 5C)	Mawar Room (Session 5D)	Raya Room (Session 5E)
14:00 – 14:20	ME07	OR18	AM21	FM07	IM06
14:20 – 14:40	ME10	OR06	AM12	FM05	IM07
14:40 – 15:00	ME14	OR01	AM68	FM14	IM12
15:00 – 15:20	ME11	OR03	AM23	ST22	IM11
15:20 – 15:40	ME12	OR11	AM17	FM02	IM05
15:40 – 16:00	ME04	OR07	AM09	FM06	IM08

16:00 – 16:20: Refreshment

16:20 – 18:00: Workshop 5 + Parallel Sessions 6

Time	Matahari Ballroom I (Session 6A)	Matahari Ballroom II (Session 6B)	Matahari Ballroom III (Session 6C)	Mawar Room (Session 6D)	Raya Room
16:20 – 16:40	ST24	PM04	AM36	AM35	Workshop 5 <i>Math Made Easy with Technology</i>
16:40 – 17:00	ST15	PM08	AM39	AM44	
17:00 – 17:20	ST12	PM18	AM50	AM45	
17:20 – 17:40	ST09	PM13	AM41	AM64	
17:40 – 18:00	ST10	PM23	AM69	AM01	

### DAY 3 – 12 DEC 2018

08:20 – 10:20: Workshop 6 + Parallel Sessions 7

Time	Matahari Ballroom I	Matahari Ballroom II (Session 7A)	Matahari Ballroom III (Session 7B)	Mawar Room (Session 7C)	Raya Room (Session 7D)
08:20 – 08:40	Workshop 6 <i>Gamified Mathematics for Teaching and Learning for School Students</i>	OR19	AM70	AM28	
08:40 – 09:00		ST28	AM02	AM67	MT01
09:00 – 09:20		ST21	AM19	AM05	MT07
09:20 – 09:40		ST13	AM54	AM18	MT13
09:40 – 10:00		ST16	AM51	AM27	MT11
10:00 – 10:20		ST06	AM65	AM24	MT12

10:20 – 10:40: Refreshment

10:40 – 12:40: Workshop 7 + Parallel Sessions 8

Time	Matahari Ballroom I	Matahari Ballroom II (Session 8A)	Matahari Ballroom III (Session 8B)	Mawar Room (Session 8C)	Raya Room (Session 8D)
10:40 – 11:00	Workshop 7 <i>Higher Order Thinking Skills in Mathematical Problem Solving</i>	FM08	AM59	PM19	IM14
11:00 – 11:20		FM13	AM53	PM06	IM04
11:20 – 11:40		FM01	AM56	PM03	IM03
11:40 – 12:00		FM10	AM60	PM11	IM15
12:00 – 12:20		FM12	AM16	PM02	IM13
12:20 – 12:40		FM11	AM48	PM20	IM10

12:40 – 14:00: Lunch

14:00 – 16:20: Workshop 8 + Parallel Sessions 9

Time	Matahari Ballroom I	Matahari Ballroom II (Session 9A)	Matahari Ballroom III (Session 9B)	Mawar Room (Session 9C)	Raya Room (Session 9D)
14:00 – 14:20	Workshop 8 <i>Coaching Techniques for Mathematical Olympiad</i>	ST11	AM57	AM07	OR02
14:20 – 14:40		ST01	AM58	AM72	OR04
14:40 – 15:00		ST27	AM11	AM08	OR05
15:00 – 15:20		ST05	AM20	AM14	OR09
15:20 – 15:40		ST02	AM32	AM13	OR10
15:40 – 16:00		ST20	AM30	AM10	OR14
16:00 – 16:20			ST03	AM34	AM40

16:20 – 16:30: Closing Remark

16:30 – 16:50: Refreshment

**DAY 1 • 10 DEC 2018**

<b>Time</b>	<b>Venue: Matahari Ballroom</b> <b>Chairperson: Prof. Dr. Michael Khoo Boon Chong</b>
09:00 – 10:00	PLENARY SESSION 1 <b>QMH Prof. Dr. M. Ataharul Islam</b> <i>Generalized Linear Models and Analysis of Big Data</i>
<b>Time</b>	<b>Venue: Matahari Ballroom</b> <b>Chairperson: Prof. Dr. Norhashidah Hj. Mohd. Ali</b>
10:40 – 11:40	PLENARY SESSION 2 <b>Assoc. Prof. Dr. Tan Seng Chee</b> <i>Learning Mathematics Through Computer-Supported Collaborative Learning (CSCL): Potentials and Challenges</i>
<b>Time</b>	<b>Venue: Matahari Ballroom</b> <b>Chairperson: Prof. Dr. Hailiza Kamarulhaili</b>
11:40 – 12:40	PLENARY SESSION 3 <b>Prof. Dr. Mohamed Ridza Wahiddin</b> <i>IBM Quantum Computers: Now It's Easier for Everyone to Understand Quantum Mechanics</i>



Time	<b>Session 1A</b> <i>Matahari Ballroom I</i> <b>Chairperson:</b> <i>Dr. Syakila Ahmad</i>	<i>Matahari Ballroom II</i>	<b>Session 1B</b> <i>Matahari Ballroom III</i> <b>Chairperson:</b> <i>Dr. Ng Zhen Chuan</i>	<b>Session 1C</b> <i>Mawar Room</i> <b>Chairperson:</b> <i>Assoc. Prof. Dr. Mohd Tahir Ismail</i>	<b>Session 1D</b> <i>Melati Room</i> <b>Chairperson:</b> <i>Dr. Thien Lei Mee</i>
14:00 – 14:20	AM22 <b>Petarpa Boonserm</b> <i>Solving for Schwarzschild Solution Using Variation of Parameters and Frobenius Method</i>	INVITED SESSION 1 Chairperson: <i>Dr. Mohd Hafiz Mohd</i>  <b>Dr. Ng Wee Leng</b> <i>Use of Graphing Calculators in Teaching, Learning and Assessment in the Pre-University Mathematics Curriculum in Singapore</i>	PM17 <b>Mohd Ali Khameini Ahmad</b> <i>Chaoticity of Potts-Bethe Maps of Degree Four over <math>Q_p</math></i>	ST29 <b>Faridah Abdul Halim</b> <i>Dietary Habits and Caloric Intake Among Shah Alam Residents Based on Income and Gender</i>	IM17 <b>P. H. G. Perera</b> <i>Cluster Analysis of Spatial and Temporal Distribution of Dengue Disease in Sri Lanka from 2012 to 2017</i>
14:20 – 14:40	AM15 <b>Sharmina Hussain</b> <i>Heat and Mass Transfer Response in MHD Natural Convection Flow due to Oscillating Surface Temperature and Concentration</i>		PM09 <b>Musa Josiah Marut</b> <i>The Fekete-Szego Inequalities for Memomorphic Functions Associated with Quasi-Subordination</i>	ST25 <b>Spandita Majumder</b> <i>The Classical and Bayesian Modelling on the Covariates Influencing the Psychological Disorder "Depressive Syndrome" Among the Child Patients in Hospitals of Kolkata</i>	IM02 <b>Yulita Molliq Rangkuti</b> <i>Comparison of Delayed SIR Model and SEIR Model with incubation Period for the Spread of Tuberculosis Disease in Medan</i>
14:40 – 15:00	AM66 <b>Najihah Mohamed</b> <i>Curves Fitting by Rational Cubic Bézier with <math>C^1</math> and <math>G^1</math> Continuity Using Metaheuristics Methods</i>	INVITED SESSION 2 Chairperson: <i>Prof. Dr. Low Heng Chin</i>	PM10 <b>Zhen Chuan Ng</b> <i>Bohr's Inequality for Harmonic Mappings into a Wedge Domain</i>	ST07 <b>Rahmat Al Kafi</b> <i>Forecasting Indonesian Mortality Rates Using the First Generalized Cairns-Blake-Dowd Model</i>	ME13 <b>Aziah Binti Aziz</b> <i>Cartesian Plane Exploration Using TI - Nspire in MYP IB Mathematics Classroom</i>

<p>15:00 – 15:20</p>	<p>AM61 <b>Somruthai Apornsangawong</b> <i>A Comparison Study of the Chebyshev Collocation Method and the Finite Difference Method for Solving Fourth-Order Partial Differential Equations</i></p>	<p><b>Dr. Lee Wen Jau</b> <i>Simulation Assisted Supervised Learning for Extrapolation Prediction</i></p>	<p>PM07 <b>Yao Liang Chung</b> <i>Generalization of Class <math>\mathcal{U}</math></i></p>	<p>ST23 <b>Mohd Tahir Ismail</b> <i>Stock Market Forecasting Using Empirical Mode Decomposition with Holt-Winter</i></p>	<p>ME03 <b>Suhaila Binti Sulong</b> <i>Mathematics Learning Activities Using TI – Nspire in Middle Year Programme International Baccalaureate (MYP IB) Classroom</i></p>
<p>15:20 – 15:40</p>	<p>AM43 <b>Mouiyad Mahmoud Ahmad Bani Yousef</b> <i>A New Modified RMIL CG Method with Global Convergence Properties</i></p>	<p><b>PERCEPTRON – A Smart Data Science Platform for Education</b></p>	<p>PM16 <b>Chuei Yee Chen</b> <i>Quasiminimizer and Its Roles in Improving Variational Principle in the Calculus of Variations</i></p>	<p>ST19 <b>Gan Chew Peng</b> <i>Generalized Linear Models for Insurance Claim</i></p>	<p>IM19 <b>Kathiresan Gopal</b> <i>Fuzzy Conjoint Model in Describing Malaysian Undergraduates’ Perceptions of Statistics Classroom Engagement</i></p>
<p>15:40 – 16:00</p>	<p>AM63 <b>Nur Raidah Salim</b> <i>Fuzzy Conjoint Analysis in Studying Undergraduates’ Statistics Motivation</i></p>		<p>PM01 <b>Ghajendran Poovanandran</b> <i>Parikh Matrices and M-Ambiguity Sequence</i></p>	<p>FM15 <b>Ferren Alwie</b> <i>Risk Measurement for Insurance Sector with Credible Tail Value-at-Risk</i></p>	<p>IM09 <b>Nur Farhana Hazwani Binti Abdul Shamad</b> <i>Deterministic Modelling of the Dynamic Transmission of Dengue Fever</i></p>

Time	Matahari Ballroom I	<b>Session 2A</b> Matahari Ballroom II <b>Chairperson:</b> Dr. Kong Voon Pang	<b>Session 2B</b> Matahari Ballroom III <b>Chairperson:</b> Dr. Shamsul Rijal Muhammad Sabri	<b>Session 2C</b> Mawar Room <b>Chairperson:</b> Assoc. Prof. Adam Baharum	<b>Session 2D</b> Melati Room <b>Chairperson:</b> Assoc. Prof. Dr. Lee See Keong
16:20 – 16:40	<b>WORKSHOP 1</b> Mathematical Problem Solving with TI-Nspire CX CAS  <b>Dr. Ng Wee Leng</b>	MT06 <b>Anusa Suwanwong</b> Mathematical and Statistical Analysis for LST Trend and Variation by Using MODIS Data in the Tropical Rainforest of Hala-Bala in Narathiwat, Southern Thailand During 2002-2017	FM09 <b>Siti Norafidah Mohd  Ramli</b> Jump Diffusion Model with Copula Dependence Structure in Defaultable Bond Pricing	OR12 <b>Adam Baharum</b> Using Fuzzy Linear Programming to Find the Maximum Flow Point in General Networks with Application	IM01 <b>Pivumi Nisansala  Bandara</b> Factors Associated with Motor Difficulty for Cerebral Palsy Among Infants in Sri Lanka
16:40 – 17:00		MT03 <b>Bala Gabriel Abraham</b> Interpretation of High Resolution Aeromagnetic (HRAM) Data over Chibok and Damboa Chad Basin, North Eastern Nigeria, Using Potent Modelling for Hydrocarbon Potentials and Other Minerals	FM16 <b>Chrisseli Lukito</b> Risk Measurement for Investment and Insurance Using Tail Variance Premium and Tail Standard Deviation Premium	OR17 <b>Sharifah Aishah Binti  Syed Ali</b> A Theoretical and Computational Comparison of Lower Bounds for the Economic Lot-Sizing with Remanufacturing and Joint Setup	IM18 <b>A. Bhalraj</b> Mathematical Modelling of the Spread of Leptospirosis

<p>17:00 – 17:20</p>	<p>WORKSHOP 1 <i>Mathematical Problem Solving with TI-Nspire CX CAS</i>  <b>Dr. Ng Wee Leng</b></p>	<p>MT08 <b>Nur Idalisa Norddin</b> <i>A New Sufficient Descent Conjugate Gradient Method with Exact Line Search</i></p>	<p>FM04 <b>Hassilah Salleh</b> <i>Investigation of Characteristics of Agricultural Commodity in Malaysia's Crude Palm Oil Futures Prices</i></p>	<p>OR16 <b>Adam Baharum</b> <i>Optimal Use of a Mixed Model for Fuzzy Programming and Integer Programming to Determine the Optimal Location for Emergency Health Services</i></p>	<p>IM16 <b>Fatin Afiqah binti Muhammad Fahimi</b> <i>Relative Risk Estimation of Hepatitis B and C in Peninsular Malaysia Using Poisson-Gamma Model</i></p>
<p>17:20 – 17:40</p>	<p><i>A Data Statistics Journey with TIBCO Statistica</i></p>	<p>MT09 <b>Nurul Hafawati Fadhillah</b> <i>New Coefficient of Three-Term Conjugate Gradient Method for solving Unconstrained Optimization Problems</i></p>	<p>FM03 <b>Lim Kah Boon</b> <i>Panel Threshold Effect of Oil Prices Changes on Monetary Policy: Empirical Evidence from Oil Importing Versus Oil Exporting Countries</i></p>	<p>OR13 <b>Nur Aidya Hanum Aizam</b> <i>General Mathematical Model and Scheduling Problems: Expansion and Application to Real-Time Scheduling</i></p>	<p>ME09 <b>Ruei Hung Lee</b> <i>Create Engaging Mathematics Class Using Graphing Calculators</i></p>
<p>17:40 – 18:00</p>				<p>OR08 <b>Noor Hidayah Mohd Zaki</b> <i>Comparison on Queuing Performance Measures of Multi-Server Traditional and Fuzzy Queuing Model</i></p>	<p>ME01 <b>Ikusika Akintayo</b> <i>An Investigation into the Teaching Effectiveness of the Trachtenberg System of Mental Calculation</i></p>

**DAY 2 • 11 DEC 2018**

<b>Time</b>	<b>Session 3A</b> <i>Matahari Ballroom I</i> <b>Chairperson:</b> <i>Dr. Norazrizal Aswad Abdul Rahman</i>	<b>Session 3B</b> <i>Matahari Ballroom II</i> <b>Chairperson:</b> <i>Dr. Hajar Sulaiman</i>	<b>Session 3C</b> <i>Matahari Ballroom III</i> <b>Chairperson:</b> <i>Dr. Mohd Shareduwan Mohd Kasihmuddin</i>	<b>Session 3D</b> <i>Mawar Room</i> <b>Chairperson:</b> <i>Dr. Maisarah Haji Mohd</i>	<i>Raya Room</i>
08:20 – 08:40	AM71 <b>Abdullahi Mohammed Baba</b> <i>Modeling Breast Cancer and Its Optimal Control</i>	ME02 <b>Norhafizan Abdul Wahab</b> <i>Learning and Facilitating the New Form 1 and Form 2 Topic of Data Handling in Statistics Using Tinkerplots</i>	AM37 <b>Saratha Sathasivam</b> <i>Activation Functions Comparison in Neuro Symbolic Integration Using Agent Based Modelling</i>	PM05 <b>Nasir Ganikhodjaev</b> <i>On Classification of the Genetic and Evolution Rock-Paper-Scissor Algebras</i>	<p align="center">WORKSHOP 2 <i>Introduction to LaTeX</i></p> <p align="center"><b>Dr. Ong Wen Eng</b> and <b>Dr. Siti Amirah Abdul Rahman</b></p>
08:40 – 09:00	AM62 <b>Suzelawati Zenian</b> <i>Intuitionistic Fuzzy Set: Application to Flat Electroencephalography Image</i>	ME05 <b>Masyithoh Md Zuber</b> <i>Exploring the Effectiveness of E-Learning in Increasing Students' Achievements in Mathematics at the Primary School Level</i>	AM26 <b>Mamman Mamuda</b> <i>A Hybridized Neural Network Models for Data with Outliers</i>	PM15 <b>Khairunnisa Jaman</b> <i>A Pursuit Differential Game in a Convex Set</i>	
09:00 – 09:20	AM42 <b>Asem Al-Nemrat</b> <i>Sumudu Transform with Modified Homotopy Perturbation Method to Solve Two Point Singularly Perturbed Boundary Value Problems</i>	ME06 <b>Syahilah Md Saleh</b> <i>Gamification in T&amp;L of Mathematics: Teacher's Willingness in Using Quizziz as an Additional Assessment Tool</i>	AM29 <b>Wachirapond Permpoonsinsup</b> <i>Variation and Prediction of Rainy Season in Thailand Using Ensemble Neural Model</i>	PM21 <b>Azizi Bin Rosli</b> <i>On Orthogonality Preserving Cubic Stochastic Operator Defined on 1-Dimensional Simplex</i>	

09:20 – 09:40	<p>AM49 <b>Kee Huong Lai</b> <i>Portfolio Optimization Using Genetic Algorithm and Harmony Search Algorithm with Varying Operators and Parameters Values</i></p>	<p>ME08 <b>Rizavel Corsino-Addawe</b> <i>Analysis of the Indicators of Students' Performance in Undergraduate Mathematics Program</i></p>	<p>AM46 <b>Lee Sen Tan</b> <i>Solving Ordinary Differential Equations Using Wavelet Neural Networks</i></p>	<p>PM22 <b>Sadiq Shehu</b> <i>New Cryptanalytic Results upon Prime Power Moduli <math>N = p^r q</math></i></p>	<p>WORKSHOP 2 <i>Introduction to LaTeX</i></p> <p><b>Dr. Ong Wen Eng</b> and <b>Dr. Siti Amirah Abdul Rahman</b></p>
09:40 – 10:00	<p>AM38 <b>Norazrizal Aswad Abdul Rahman</b> <i>Fuzzy Sumudu Decomposition Method for Solving Differential Equations with Uncertainty</i></p>	<p>INVITED SESSION 3 Chairperson: Prof. Dr. Zarita Zainuddin</p> <p><b>Prof. Dr. Dan Seth</b> <i>Integration of Technology in Teaching, Learning and Assessment in the Pre-University and University Mathematics Curricula of USA</i></p>	<p>AM47 <b>S. Chuenjai</b> <i>Temperatures and Normalized Difference Vegetation Index Forecasting in the Tropical Rainforest: Hala-Bala Wildlife Sanctuary, Thailand Using Artificial Neural Networks</i></p>	<p>PM14 <b>Khairun Nisak Muhammad</b> <i>Some Properties of Regular Continued Fraction Expansions Related to Certain Sequence of Integers and its Applications in Elliptic Curve Cryptography</i></p>	
10:00 – 10:20	<p>AM55 <b>Chin Jia Hou</b> <i>An Ant Colony Approach in the Detection of Communities in Complex Networks</i></p>		<p>AM33 <b>Mohd Shareduwan Mohd Kasihmuddin</b> <i>Students' Performance via Satisfiability Reverse Analysis Method with Hopfield Neural Network</i></p>	<p>PM12 <b>Abdulrahman Balfaqih</b> <i>On the Diophantine Equation <math>x_1^a + x_2^a + \dots + x_m^a = p^k y^b</math></i></p>	

Time	Matahari Ballroom I	Session 4A Matahari Ballroom II Chairperson: Dr. Fam Pei Shan	Session 4B Matahari Ballroom III Chairperson: Dr. Syakila Ahmad	Session 4C Mawar Room Chairperson: Dr. Ong Wen Eng	Raya Room
10:40 – 11:00	<p>WORKSHOP 3 Stem Pratices with TI-Nspire Technology</p> <p><b>Puteri Anis Aneeza Zakaria</b> and <b>Nurhani Mohd Yahya</b></p> <p>+</p> <p><i>Explore Ratios and Scales with Graphing Calculators</i></p> <p><b>Dr. Pumadevi Sivasubramaniam</b> and <b>Nurul Shalhida Abu Bakar</b></p>	<p>ST26 <b>Zakiyah Zain</b> <i>Monitoring Dengue Scenario in Malaysia Using Survival Analysis</i></p>	<p>AM31 <b>Kohilavani Naganthran</b> <i>Effects of Thermal Radiation and Slip in Unsteady Stagnation-Point Flow and Heat Transfer past a Permeable Shrinking Sheet: A Stability Analysis</i></p>	<p>MT04 <b>Shinya Miyajima</b> <i>A Robust Algorithm for Computing Intervals containing the Stabilizing Solutions of the Discrete-Time Algebraic Riccati Equations</i></p>	<p>WORKSHOP 4 <i>Get Started with Python</i></p> <p><b>Dr. Jasy Liew Suet Yan</b> and <b>Assoc. Prof. Dr. Teh Su Yeap</b></p>
11:00 – 11:20		<p>ST08 <b>Zainudin Arsad</b> <i>Examining Time-varying Economic Impacts on Tourism Demand for Malaysia: a Kalman Filter Approach</i></p>	<p>AM25 <b>Muhammad Asim Khan</b> <i>Application of Optimal Homotopy Asymptotic Method to Some Well-Known Linear and Nonlinear Two Point Boundary Value Problems</i></p>	<p>MT15 <b>Hirohide Haga</b> <i>Solving Partial Differential Equations using Multi-Agent Modelling</i></p>	
11:20 – 11:40		<p>ST04 <b>Nazrina Aziz</b> <i>Survival Analysis in Insurance Attrition</i></p>	<p>AM06 <b>Nurul Ainina Redwan</b> <i>Unsteady Flow of Thin Slender Rivulets of a Newtonian Fluid on an Inclined Plane</i></p>	<p>MT02 <b>Fong Thai Koay</b> <i>A New Information System for Prioritisation of Product Quality Improvement</i></p>	

11:40 – 12:00	<p>WORKSHOP 3 <i>Stem Pratices with TI-Nspire Technology</i></p> <p><b>Puteri Anis Aneeza Zakaria</b> and <b>Nurhani Mohd Yahya</b></p> <p>+</p> <p><i>Explore Ratios and Scales with Graphing Calculators</i></p> <p><b>Dr. Pumadevi Sivasubramaniam</b> and <b>Nurul Shahhida Abu Bakar</b></p>	<p>ST17 <b>Lim Wei Khing</b> <i>E-Commerce Usage and the Buying Behaviour of Generation Y in Malaysia</i></p>	<p>AM04 <b>Abubakar Ahmed Dauda</b> <i>An Analytical Approach to Non-Darcian Couette Flow of a Generalized Second Grade Fluid Between Parallel Porous Plates</i></p>	<p>MT14 <b>Shinya Miyajima</b> <i>Verification Algorithms for the Matrix Lambert W Functions</i></p>	<p>WORKSHOP 4 <i>Get Started with Python</i></p> <p><b>Dr. Jasy Liew Suet Yan</b> and <b>Assoc. Prof. Dr. Teh Su Yean</b></p>
12:00 – 12:20		<p>ST14 <b>Zakiyah Zain</b> <i>Using Survival Analysis to Assess Bankruptcies in Malaysia</i></p>	<p>AM52 <b>Yusuf Buba Chukkol</b> <i>Shock Wave Propagation in Monodispersed Bubbly Viscoelastic Fluid Flow</i></p>	<p>MT05 <b>Wetthasinghe Arachhige Udana Kashyapa Wetthasinghe</b> <i>Multiplatform Dengue Management Android Mobile Application</i></p>	
12:20 – 12:40		<p>ST18 <b>Anam Javaid</b> <i>Forecast the Moisture Ratio Removal During Seaweed Drying Process Using Solar Drier</i></p>	<p>AM03 <b>Nor Ain Azeany Mohd Nasir</b> <i>MHD Stagnation Point Flow over a Stretching/Shrinking Sheet with a Heat Absorption/Sink and Radiation Effects</i></p>	<p>MT10 <b>Nursyahida Mohamad Hasan</b> <i>Numerical Study of the Evanescent Field Coupling Effect on Two Optical Fiber Sensors</i></p>	



Time	<b>Session 5A</b> <i>Matahari Ballroom I</i> <b>Chairperson:</b> <i>Dr. Leong Chee Kin</i>	<b>Session 5B</b> <i>Matahari Ballroom II</i> <b>Chairperson:</b> <i>Dr. Teh Wen Chean</i>	<b>Session 5C</b> <i>Matahari Ballroom III</i> <b>Chairperson:</b> <i>Dr. Ahmad Lutfi Amri Rahman</i>	<b>Session 5D</b> <i>Mawar Room</i> <b>Chairperson:</b> <i>Dr. Zainudin Arsad</i>	<b>Session 5E</b> <i>Raya Room</i> <b>Chairperson:</b> <i>Dr. Mohd Hafiz Mohd</i>
14:00 – 14:20	ME07 <b>Yue Zhao</b> <i>Technology Transform the Classroom: A Case Study of Chinese Senior School Statistics Classroom</i>	OR18 <b>Usman Waziri</b> <i>Pursuit Game with Coordinate-Wise Integral Constraints for System of Infinite Differential Equations</i>	AM21 <b>Tayyaba Akram</b> <i>An Extended Cubic B-Spline Collocation Scheme for Time Fractional Sub-Diffusion Equation</i>	FM07 <b>Kee Seng Kuang</b> <i>Universal Portfolios Generated by <math>f</math>-Disparity Differences</i>	IM06 <b>Anthony Meneses Pasion</b> <i>Stability and Hopf Bifurcation Analysis of SIS Epidemic Model with Latency and Nonlinear Incidence Rate</i>
14:20 – 14:40	ME10 <b>Jeyaletchumi Muthiah</b> <i>Exploring Graphs of Functions with Graphing Technology</i>	OR06 <b>Vineeta Singh</b> <i>Augmenting Operations Research Methods for Relatively Poor Farmers of India</i>	AM12 <b>Azhar Ahmad</b> <i>A Comparative Numerical Study Based on Cubic Exponential B-Splines and Finite Difference Method for the Nonlinear Schrödinger Equation</i>	FM05 <b>Zainudin Arsad</b> <i>Assessing Dynamic Linkages Between Stock Market in Malaysia and Stock Markets in the Asian Region</i>	IM07 <b>Mohd Hafiz Mohd</b> <i>Combined Effects of Prey Refuge and Death Rate of Predator on the Prey-Predator Population Dynamics</i>
14:40 – 15:00	ME14 <b>Jayaseelan Durairaj</b> <i>“Technology Embedded Self-directed Learning” a Future of Education</i>	OR01 <b>Mansur Hassan</b> <i>Modified Courant-Beltrami Penalty Function and Its Convergence</i>	AM68 <b>M Safdar</b> <i>Lie Point Algebraic Classification of Linear Third Order ODEs Using Differential Invariants</i>	FM14 <b>Cheong Huey Tyng</b> <i>Valuation of American Option with Discrete Dividend Payments</i>	IM12 <b>Nur Fariha Mohd Isa</b> <i>Sensitivity Analysis and Empirical Model Using Silica Oxide Injection in Enhanced Oil Recovery</i>

15:00 – 15:20	<p>ME11  <b>Corrienna Abdul Talib</b>  <i>Developing Student's Computational Thinking Through Graphic Calculator in STEAM Education</i></p>	<p>OR03  <b>Lakmal Prabhash Ranasinghe</b>  <i>Portfolio Optimization Using Weighted Historical Return Values: Investors View Approach</i></p>	<p>AM23  <b>Nur Nadiah Mohd Rahan</b>  <i>Cubic B-Spline Collocation Method for Solving Benjamin-Bona-Mahony Equation</i></p>	<p>ST22  <b>Syerrina Binti Zakaria</b>  <i>Spatial Distribution Patterns and Influencing Factors of Poverty</i></p>	<p>IM11  <b>Zuhaila Ismail</b>  <i>Numerical Simulation of Biomagnetic Fluid Flow in a Stenosed Bifurcated Artery</i></p>
15:20 – 15:40	<p>ME12  <b>Jin Yiming</b>  <i>Demonstration of Matrix Transformation with Graphing Calculator</i></p>	<p>OR11  <b>Leow Soo Kar</b>  <i>Optimal Routing of Tanker Trucks to Petrol Stations Using Excel</i></p>	<p>AM17  <b>Nur Aliah Izzati Rosman</b>  <i>B-Spline Alternating Group Explicit (BSPAGE) in Solving Heat Equation</i></p>	<p>FM02  <b>Chu Jenq Fei</b>  <i>Threshold Effects on Inflation on Economic Growth: Evidence from a Static Threshold Analysis for 18 Developed Economies</i></p>	<p>IM05  <b>Olusola Tosin Kolebaje</b>  <i>A Comparative Study of Jacobi Stability Analysis via the Kosambi-Cartan-Chern Theory and Linear Stability for Predator-Prey Models with Holling-type I, II and III Functional Responses</i></p>
15:40 – 16:00	<p>ME04  <b>Younbae Jun</b>  <i>Dynamic Construction of a Triangle from Three Located Points</i></p>	<p>OR07  <b>Devy Mathelinea</b>  <i>Inventory Optimization Model Through Nonlinear Programming and Forecasting Techniques: A Case Study</i></p>	<p>AM09  <b>Azhar Iqbal</b>  <i>Numerical Solution of Nonlinear Schrödinger Equation by Cubic B-Spline Galerkin Method</i></p>	<p>FM06  <b>Zainudin Arsad</b>  <i>Comparing Dynamic Impact of Fundamental Macroeconomic Variables on Sectoral Stock Indices in Malaysia</i></p>	<p>IM08  <b>Mohd Hafiz Mohd</b>  <i>Dynamical Analysis of Prey-Predator Interactions with Group Defence Using a Lotka-Volterra Model</i></p>

Time	<b>Session 6A</b> <i>Matahari Ballroom I</i> <b>Chairperson:</b> <i>Dr. Norhashidah Awang</i>	<b>Session 6B</b> <i>Matahari Ballroom II</i> <b>Chairperson:</b> <i>Dr. Shamani Supramaniam</i>	<b>Session 6C</b> <i>Matahari Ballroom III</i> <b>Chairperson:</b> <i>Dr. Md Yushalify Misro</i>	<b>Session 6D</b> <i>Mawar Room</i> <b>Chairperson:</b> <i>Dr. Siti Amirah Abdul Rahman</i>	<i>Raya Room</i>
16:20 – 16:40	ST24 <b>Chan Lay Guat</b> <i>A Statistical Study of Employment Insurance Scheme (EIS)</i>	PM04 <b>Alia Husna Mohd Noor</b> <i>On a Graph Related to the Conjugacy Classes of 3-Generator <math>p</math>-Groups</i>	AM36 <b>Ahmad Ramli</b> <i>Obstacle Avoidance Road Design with Speed Profile using Bezier Curve</i>	AM35 <b>Asma Izzati Asnor</b> <i>Higher Order Block Backward Differentiation Formula for Solving Third Ordinary Differential Equations</i>	WORKSHOP 5 <i>Math Made Easy with Technology</i>  <b>Dr. Maisarah Haji Mohd</b> and <b>Dr. Nur Nadiah Abd Hamid</b> and <b>Dr. Mohd Hafiz Mohd</b>
16:40 – 17:00	ST15 <b>Jibrin Sanusi Alhaji</b> <i>A FURI Approach in Modelling and Forecasting Tapis Crude Oil Price</i>	PM08 <b>Rawdah Adawiyah Tarmizi</b> <i>Nilpotent Groups Having a Maximal Irredundant 11-Covering with Core-Free Intersection</i>	AM39 <b>M. Y. Misro</b> <i>Determining Degree of Elevation Using Spatial Bézier Curve</i>	AM44 <b>Fatihah Anas Muhiddin</b> <i>The Red-Black SOR Iteration Based on Grünwald Fractional Scheme for One-Dimensional Time-Fractional Parabolic Equations</i>	
17:00 – 17:20	ST12 <b>Suzilah Ismail</b> <i>The Effect of Free Food Scheme on UUM Students Financial Management</i>	PM18 <b>Yean-Nee Tan</b> <i>Enumeration of Tilings of Holey Squares with Straight Polyominoes</i>	AM50 <b>Wan Zafira Ezza Wan Zakaria</b> <i>Bezier Curves Interpolation with End Point Constraints</i>	AM45 <b>Noor Julailah Abd Mutalib</b> <i>Adaptive Step Size Stochastic Runge-Kutta Method of Order 1.5(1) for Stochastic Differential Equations (SDEs)</i>	

<p>17:20 – 17:40</p>	<p>ST09 <b>Sayed Kushairi Bin Sayed Nordin</b> <i>Threshold Effects of CO2 and Energy Use on Economic Growth in Oil Importing and Exporting Countries</i></p>	<p>PM13 <b>Amirul Aizad Ahmad Fuad</b> <i>The Decomposition of Electroencephalo-graphy Signals During Epileptic Seizure</i></p>	<p>AM41 <b>Shehab Alzaeemi</b> <i>2-Satisfiability Logic Programming in Radial Basis Function Neural Networks</i></p>	<p>AM64 <b>Nor Alisa Mohd Damanburi</b> <i>A General Numerical Approximation of the Stress Characteristic Field at a Singular Point</i></p>	<p>WORKSHOP 5 <i>Math Made Easy with Technology</i></p> <p><b>Dr. Maisarah Haji Mohd</b> and <b>Dr. Nur Nadiah Abd Hamid</b> and <b>Dr. Mohd Hafiz Mohd</b></p>
<p>17:40 – 18:00</p>	<p>ST10 <b>Fauhatuz Zahroh Shaik Abdullah</b> <i>A Population-Averaged Model for Analyzing Longitudinal Binary Data</i></p>	<p>PM23 <b>Nor Suriya Abd Karim</b> <i>Chromatic Uniqueness of a Type of 6-Bridge Graph</i></p>	<p>AM69 <b>M Safdar</b> <i>Differential Invariants for Nonlinear Third Order Partial Differential Equations</i></p>	<p>AM01 <b>Hanis Safirah Saiful Anuar</b> <i>Solving Coupled Nonlinear Schrodinger Equation Using Finite Difference Method and Hybrid Cubic B-spline Collocation Method</i></p>	

**DAY 3 • 12 DEC 2018**

Time	Matahari Ballroom I	<b>Session 7A</b> <i>Matahari Ballroom II</i> <b>Chairperson:</b> <i>Mrs. Zalila Ali</i>	<b>Session 7B</b> <i>Matahari Ballroom III</i> <b>Chairperson:</b> <i>Dr. Nur Nadiah Abd Hamid</i>	<b>Session 7C</b> <i>Mawar Room</i> <b>Chairperson:</b> <i>Dr. Norshafira Ramli</i>	<b>Session 7D</b> <i>Raya Room</i> <b>Chairperson:</b> <i>Dr. Noor Saifurina Nana Khurizan</i>	
08:20 – 08:30	<p align="center">WORKSHOP 6  <i>Gamified Mathematics for Teaching and Learning for School Students</i></p> <p align="center"><b>Dr. Ahmad Lutfi Amri Ramli</b></p>	<p align="center">OR19  <b>Hali Ibrahim Abba</b>  <i>Reducing Server Redundancies in ATM Lines via Queue Disciplines</i></p>	<p align="center">AM70  <b>Muhammad Khairul Anuar Mohamed</b>  <i>MHD Free Convection Boundary Layer Flow near the Lower Stagnation Point of a Horizontal Circular Cylinder Embedded in a Ferrofluids</i></p>	<p align="center">AM28  <b>Anuar Jamaludin</b>  <i>Stability Analysis of Magneto-hydro-dynamic Stagnation-Point Flow over a Nonlinearly Permeable Stretching/Shrinking Sheet with Velocity Slip</i></p>		
08:40 – 09:00			<p align="center">ST28  <b>Nurbaizura Borhan</b>  <i>The Impact of Social Factors on Tourism Demand for Malaysia and the Neighbouring Countries</i></p>	<p align="center">AM02  <b>Che Haziqah Che Hussin</b>  <i>Analytical Solutions of Fractional Nonlinear Schrodinger Equations Using Multistep Modified Reduced Differential Transform Method</i></p>	<p align="center">AM67  <b>Nirwana Binti Japil</b>  <i>Stagnation Point Flow and Heat Transfer over an Exponentially Stretching/Shrinking Sheet in a Porous Medium</i></p>	<p align="center">MT01  <b>Siti Nur Alwani Salleh</b>  <i>Stability Analysis of Nanofluid Flow past a Moving Thin Needle subject to Convective Surface Boundary Conditions</i></p>
09:00 – 09:20			<p align="center">ST21  <b>Mukminah Darus</b>  <i>CARMA Processes with Stochastic Speed of Mean Reversion</i></p>	<p align="center">AM19  <b>Lim Ai Hui</b>  <i>Measuring Linearity by Area-Length of Convex Hull</i></p>	<p align="center">AM05  <b>Jibrin Helma Mbaya</b>  <i>Modelling and Simulation of Transient Flow Characteristics in a Producing Gas Well</i></p>	<p align="center">MT07  <b>Yong-Poh Yu</b>  <i>A Comparative Study on the Time Series Models for Forecasting Facebook Reactions</i></p>

09:20 – 09:40	<p style="text-align: center;">WORKSHOP 6 <i>Gamified Mathematics for Teaching and Learning for School Students</i></p> <p style="text-align: center;"><b>Dr. Ahmad Lutfi Amri Ramli</b></p>	<p style="text-align: center;">ST13 <b>Anam Javaid</b> <i>Modified LASSO as Efficient Phase in Standard Operating Procedure in Multiple Regression</i></p>	<p style="text-align: center;">AM54 <b>Rizavel Corsino-Addawe</b> <i>Analysis of the SA-Like Selection Operator in Differential Evolution-Simulated Annealing (DESA) Algorithm</i></p>	<p style="text-align: center;">AM18 <b>Nur Syazana Anuar</b> <i>Homogenous-Heterogeneous Reactions in the Stagnation-Point Flow and Heat Transfer of Nanofluids over an Exponentially Stretching/Shrinking Sheet with Stability Analysis</i></p>	<p style="text-align: center;">MT13 <b>Nurulhuda A.Manaf</b> <i>Generating Service Choreographies from SBVR Models</i></p>
09:40 – 10:00		<p style="text-align: center;">ST16 <b>Zalila Ali</b> <i>Ordinal Logistic Regression Modelling of Dental Caries Status Among Preschool Children in Bachok District, Kelantan, Malaysia</i></p>	<p style="text-align: center;">AM51 <b>Taufiq Khairi Ahmad Khairuddin</b> <i>Fitting the First Order Polarization Tensor by Spheroid: A Semi Analytical Approach</i></p>	<p style="text-align: center;">AM27 <b>Ahmad Danial Bin Lokman</b> <i>Dual Solutions of Exponentially Stretched/Shrunked Flows of Carbon Nanotubes</i></p>	<p style="text-align: center;">MT11 <b>Chukwuneke Jeremiah Lekwuwa</b> <i>Mathematical Modelling of Stabilizing Wave Attenuation Effects in High-Speed Milling Process</i></p>
10:00 – 10:20		<p style="text-align: center;">ST06 <b>Mohd Syazwan Mohamad Anuar</b> <i>Bootstrap Confidence Intervals for Circular Regression Model</i></p>	<p style="text-align: center;">AM65 <b>Nooraihan Abdullah</b> <i>A Lagrange-mesh Method for Solving Two-Dimensional Schrödinger Equation</i></p>	<p style="text-align: center;">AM24 <b>Norshafira Ramli</b> <i>Stability Analysis of MHD Mixed Convection Flow over a Moving Flat Plate in Ferrofluids with Thermal Radiation, Suction and Second-order Slip Effects: Heat Flux Case</i></p>	<p style="text-align: center;">MT12 <b>Nur Farah Adilah Che Omar</b> <i>Integrated Index Measure of Technological Capabilities for Technology-Based SME's</i></p>

Time	Matahari Ballroom I	<b>Session 8A</b> Matahari Ballroom II <b>Chairperson:</b> Assoc. Prof. Dr. Sek Siok Kun	<b>Session 8B</b> Matahari Ballroom III <b>Chairperson:</b> Dr. Yazariah Mohd Yatim	<b>Session 8C</b> Mawar Room <b>Chairperson:</b> Dr. Azhana Ahmad	<b>Session 8D</b> Raya Room <b>Chairperson:</b> Dr. Amirah Azmi
10:40 – 11:00	<p>WORKSHOP 7  Higher Order Thinking Skills in Mathematical Problem Solving</p> <p><b>Mohd Suhaimi Ramly</b></p>	FM08 <b>Siti Fatimah Ismail</b> <i>Investigating the Effects of Fiscal and Monetary Policy on Economic Performance: A Static Panel Threshold Regression Approach</i>	AM59 <b>Phithakdet Phoo-Ngurn</b> <i>Optimal Vaccination Strategies for Controlling the Spread of Porcine Reproductive and Respiratory Syndrome Virus in a Swine Population</i>	PM19 <b>Muhammad Zillullah Mukaram</b> <i>Combination of Graphs with Pseudo Degree Zero Generated by <math>FTTM_n^k</math></i>	IM14 <b>Nuzlinda Abdul Rahman</b> <i>Time Series Modelling of Dengue Cases for Several States in Malaysia</i>
11:00 – 11:20		FM13 <b>Rahela Abdul Rahim</b> <i>Modelling Gross Domestic Product Using Discrete Dynamical Systems</i>	AM53 <b>Ummi Nurmasiyah Hassan</b> <i>Modelling Overtaking Behavior for Pedestrian Dynamics Using a Modified Social Force Model</i>	PM06 <b>Noor A'lawiah Binti Abd Aziz</b> <i>Some Properties of <math>k</math>-Step Hamiltonian Graphs</i>	IM04 <b>Nur Atikah Mohd Rozali</b> <i>Laplace Transform on the Recursive Moments of Aggregate Discounted Claims with Weibull Interwaiting Time</i>
11:20 – 11:40		FM01 <b>Lavaneesvari Manogaran</b> <i>Monetary Conditions in Indonesia: A Pre- and Post-IT Analysis</i>	AM56 <b>Silas A. Ihedioha</b> <i>Optimal Investment and Consumption Decision for an Investor with Ornstein-Uhlenbeck Stochastic Interest Rate Model Through Utility Maximization</i>	PM03 <b>Nabilah Najmuddin</b> <i>Domination Polynomial of the Commuting and Noncommuting Graphs of Some Finite Groups</i>	IM03 <b>A.M.C.H Attanayake</b> <i>Spatial-Temporal Risk Mapping for Dengue Disease in Colombo, Sri Lanka</i>

11:40 – 12:00	<p style="text-align: center;">WORKSHOP 7 Higher Order Thinking Skills in Mathematical Problem Solving</p> <p style="text-align: center;"><b>Mohd Suhaimi Ramli</b></p>	<p style="text-align: center;">FM10 <b>Leong Kah Hou</b> <i>Estimating Level of Stock Market Integration for Emerging Asian and European Countries Using Kalman Filter Technique</i></p>	<p style="text-align: center;">AM60 <b>Nur Bains Ismail</b> <i>Using Partial Differential Equation in Modelling a Drinking Can with Texture Features</i></p>	<p style="text-align: center;">PM11 <b>Noorsufia Abd Shukor</b> <i>On Hamiltonian Polygonal Paths in Assembly Graph <math>FTM_n</math></i></p>	<p style="text-align: center;">IM15 <b>Nurul Syafiah Abd Naeem</b> <i>Fitting Spatio-Temporal Infectious Disease Model with Different Choice of Dependence Matrices: A Case Study of Dengue in Peninsular Malaysia</i></p>
12:00 – 12:20		<p style="text-align: center;">FM12 <b>Lau Kein Joe</b> <i>An Empirical Study on Asymmetric Jump Diffusion for Option and Annuity pricing</i></p>	<p style="text-align: center;">AM16 <b>Lawal Jibril</b> <i>On Existence and Sensitivity-Index of a Cholera Carrier Epidemic Model</i></p>	<p style="text-align: center;">PM02 <b>Olayiwola Babarinsa</b> <i>Mixed Hourglass Graph and Its Mixed Energy</i></p>	<p style="text-align: center;">IM13 <b>Amirah Azmi</b> <i>Effect of Biodiversity on the Spread of Leptospirosis Infection</i></p>
12:20 – 12:40		<p style="text-align: center;">FM11 <b>Leong Kah Hou</b> <i>Stock Market Integration, Investment and Economic Growth: Evidence from Asian and European Countries Using Heterogeneous Panel Model</i></p>	<p style="text-align: center;">AM48 <b>Johannah Jamalul Kiram</b> <i>Comparison Analysis Between Linear and Nonlinear Models to Predict Language Proficiency in Proportion to Language Learning Strategy</i></p>	<p style="text-align: center;">PM20 <b>Siti Salwana Mamat</b> <i>Taxonomy of Tournament in Relation to Autocatalytic Set</i></p>	<p style="text-align: center;">IM10 <b>Stephanie Yeoh</b> <i>Graphene Based Nonlinear Multimode Interference Waveguide for Refractive Index Sensing</i></p>



Time	Matahari Ballroom I	<b>Session 9A</b> Matahari Ballroom II <b>Chairperson:</b> Dr. Nuzlinda Abdul Rahman	<b>Session 9B</b> Matahari Ballroom III <b>Chairperson:</b> Assoc. Prof. Dr. Farah Aini Abdullah	<b>Session 9C</b> Mawar Room <b>Chairperson:</b> Assoc. Prof. Dr. Noor Atinah Ahmad	<b>Session 9D</b> Raya Room <b>Chairperson:</b> Dr. Majid Khan Majahar Ali
14:00 – 14:20	<p style="text-align: center;">WORKSHOP 8  <i>Coaching Techniques for Mathematical Olympiad</i></p> <p style="text-align: center;"><b>Mohd Suhaimi Ramly</b></p>	ST11 <b>Mohd Tahir Ismail</b> <i>The Spatial Effects of Neighbours on the Trading Activities of COMESA Countries</i>	AM57 <b>Maharani Abu Bakar</b> <i>New Switching Strategy to Combat Breakdown in Lanczos-Types for the Solution of High Dimensions of Linear Equations</i>	AM07 <b>Vigneshwer Kathirvel</b> <i>Comparison between Various Activation Functions in Hopfield Neural Network</i>	OR02 <b>Md. Mijanoor Rahman</b> <i>Increase the Efficiency of Car Following Parameters Through Calibration Model</i>
14:20 – 14:40		ST01 <b>Babangida Ibrahim Babura</b> <i>Stairboxplot and the Visual Analysis of Univariate Datasets</i>	AM58 <b>Nur Awanis Helmee</b> <i>Comparison of Handwriting Curve Reconstruction Using Whale Optimization Algorithm and Least Square Approximation</i>	AM72 <b>Saifullahi Yusuf</b> <i>Mixed Convection Heat Transfer in a Vertical Channel in the Presence of Heat Loss and Chemical Reaction</i>	OR04 <b>Siti Nurleena Abu Mansor</b> <i>Maintenance Model in Coevolution Opinions in Adaptive Networks</i>
14:40 – 15:00		ST27 <b>Adamu Adamu Muhammad</b> <i>Robust Inference in the Presence of Heteroscedasticity and High Leverage Points</i>	AM11 <b>Xiaojing Pei</b> <i>The Gradient Descent with Curvilinear Search Method for Non-Negative Matrix Factorization</i>	AM08 <b>Vigneshwer Kathirvel</b> <i>Performance Comparison Between Exhaustive Search and Imperialist Competitive Algorithm for 3-Satisfiability Programming</i>	OR05 <b>Md. Mijanoor Rahman</b> <i>Vehicle Dynamics and Simulations of Gipp's Model Compared Malaysia Data</i>

15:00 – 15:20	<p style="text-align: center;"><b>WORKSHOP 8</b> <i>Coaching Techniques for Mathematical Olympiad</i></p> <p style="text-align: center;"><b>Mohd Suhaimi Ramly</b></p>	<p style="text-align: center;">ST05 <b>Jibrin Sanusi Alhaji</b> <i>R Package FURI for Fractional Unit Root Integral (FURI) and ARFURIMA Models</i></p>	<p style="text-align: center;">AM20 <b>Muhammad Aminu</b> <i>Feature Extraction and Classification for Spoken Letter Recognition Using Locality Preserving Partial Least Squares Discriminant Analysis</i></p>	<p style="text-align: center;">AM14 <b>Kho Liew Ching</b> <i>2-Satisfiability Logical Rule by Using Ant Colony Optimization in Hopfield Neural Network</i></p>	<p style="text-align: center;">OR09 <b>R. Chandrashekar</b> <i>Forecasting and Economic Order Quantity Model for Inventory Control: A Case Study at XYZ Company</i></p>
15:20 – 15:40		<p style="text-align: center;">ST02 <b>Sajal Saha</b> <i>Side-Sensitive Group Runs Chart for Detecting Mean Shifts Using Auxiliary Information</i></p>	<p style="text-align: center;">AM32 <b>Ajmal Ali</b> <i>New Group Fractional Damped Wave Iterative Solvers Using Mathematica</i></p>	<p style="text-align: center;">AM13 <b>Kho Liew Ching</b> <i>Agent Based Modelling and Neural Symbolic Integration</i></p>	<p style="text-align: center;">OR10 <b>Saw Veekeong A/L Saw Hin</b> <i>Using the <math>\epsilon</math>-Constraint Method to Solve the Multicriteria Path Planning Problem</i></p>
15:40 – 16:00		<p style="text-align: center;">ST20 <b>Lim Hui Yin</b> <i>Estimation of Precipitation Data by Using Deterministic Interpolation Methods to Study Landslide: A Case Study in Penang Island, Malaysia</i></p>	<p style="text-align: center;">AM30 <b>Altaf. A. Al-Shawba</b> <i>The <math>(G'/G)</math>-Expansion Method for Solving the Conformable Time Fractional Hirota-Satsuma Coupled KdV System</i></p>	<p style="text-align: center;">AM10 <b>Mohammad Athar Azim</b> <i>Agent Based Modelling for Comparing the Performances of Hyperbolic and Zeng and Martinez Activations Functions</i></p>	<p style="text-align: center;">OR14 <b>Gaeithry Manoharam</b> <i>Proposing an Effective Route for Transporting Solid Waste from Seberang Perai Industry Area Using GIS Approach</i></p>
16:00 – 16:20		<p style="text-align: center;">ST03 <b>Mohd Azri Pawan Teh</b> <i>Group Chain Acceptance Sampling Plans for Truncated Life Test by Using Minimum Angle Method</i></p>	<p style="text-align: center;">AM34 <b>Umair Ali</b> <i>Modified Implicit Difference Method for One-dimensional Fractional Wave Equation</i></p>	<p style="text-align: center;">AM40 <b>Shehab Alzaeemi</b> <i>Comparing Logic Programming between Hopfield Network and Radial Basis Function Network</i></p>	<p style="text-align: center;">OR15 <b>Mohamad Shahiir Saidin</b> <i>Crisp and Fuzzy Approaches on Staff Performance Evaluation: a Comparison</i></p>