## December 16, 2018

### Room A (Grand Ballroom, 3rd floor)

* * * Afternoon refreshment at leisure * * *

| Time | Speaker/Title | Chair |
|---|---|---|
| 08:00--09:00 | Registration | |
| 09:00--09:30 | Opening ceremony - Opening speech of Welcome by **Prof. Surapol Issaragrisil**, MD., President of the Royal Society of Thailand | |
| 09:30--10:20 | *** **Wake, G.** Massey University, Auckland, New Zealand. Fifty Years of Mathematics-in-Industry Study Groups Around the World | Lenbury, Y. |
| 10:20--10:35 | *Refreshment* | |
| 10:35--11:15 | ** **Licht, C.** Universite Montpellier II, Case courier 048. Asymptotic Mathematical Modeling in Physics by Trotter Theory of Approximation of Semi-groups | Moore, E. |
| 11:15--11:45 | * **Jatanachai, P.** Tech Data Advanced Solutions (Thailand) Limited, Lumpini, Pathumwan, Bangkok, Thailand. GPU for Next Generation High Performance Computing | Moore, E. |
| 11:45--12:05 | **Boonpikum, A.** Khon Kaen University. Improved Delay Dependent Stability Criterion for Genetic Regulatory Networks with Interval Time-Varying Delays via New Lyapunov Functionals | Moore, E. |
| 12:05--12:25 | **Phokaew, C.** Prince of Songkla University. Modeling Climate Temperature Increases over Japan Using MODIS LST Data | Moore, E. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:45 | **Andarlia, HT.** Universitas Indonesia. Reaction-Diffusion Model on Modified Logistic Equation With Periodic Growth Rate and Harvesting Rate | Lenbury, Y. |
| 13:45--14:05 | **Vajrapatkul, A.** King Mongkut's University of Technology North Bangkok. An Application of the Impulsive CSOH Model for Managing Squirrel in | Lenbury, Y. |
| 14:05--14:25 | **Chaiya, I.** Mahasarakham University. An Impulsive Mathematical Model for the Control of Brown Planthopper using Biological Control and Insecticide | Lenbury, Y. |
| 14:25--14:45 | **Chutsagulprom, N.** Chiang Mai University. A Hybrid Prediction Method for Renewable Energy Consumption in Thailand | Lenbury, Y. |
| 14:45--15:05 | **Darlai, R.** King Mongkut's University of Technology North Bangkok. Andronov-Hopf and Neimark-Sacker Bifurcations in Time-Delay Differential Equation and Difference Equation Dynamic Models for Diseases and Animal Populations | Lenbury, Y. |
| 15:05--15:25 | **Kasemsuwan, J.** King Mongkut's Institute of Technology Ladkrabang. A Water Pollution Measurement Model in an Opened-Closed Reservoir with Contaminant Removal Mechanism | Tangmanee, S. |
| 15:25--15:45 | **Kim, S.** Yonsei University. Valuation of Variance Swaps with Double Exponential Ornstein-Uhlenbeck Stochastic Volatility | Tangmanee, S. |
| 15:45--16:05 | **Laesanklang, W.** Mahidol University. Toward Efficient Planning in Long-Term Home Healthcare Scheduling Problem | Tangmanee, S. |
| 16:05--16:25 | **La-Inchua, T.** University of Phayao. Full-Order Observer Design for Finite-time Stability of Complex Large-scale Systems with Time-varying delay in Interconnection | Tangmanee, S. |
| 16:25--16:45 | **Lekdee, N.** King Mongkut's university of technology north bangkok. Bifurcation in a Delayed Fractional Model of Glucose-Insulin Interaction with Incommensurate Orders | Tangmanee, S. |
| 16:45--17:05 | **Onruk, K.** King Mongkut's University of Technology North Bangkok. Global Stability and Sensitivity Analysis for an Ebola Disease Model with Infected Corpse Groups and Vaccination | Tangmanee, S. |
| 18:30--21:30 | *Welcoming dinner at the Grand Ballroom, 3rd floor* | |

### Room B (Crystal 1--2, 3rd floor)

* * * Afternoon refreshment at leisure * * *

| Time | Speaker/Title | Chair |
|---|---|---|
| 10:35--11:15 | ** **Wu, YH.** Curtin University. On Various Classes of Partial Differential Equations and Their Applications | Rattanakul, C. |
| 11:15--11:45 | * **Okamoto, H.** Gakushuin University. Weak Periodic Solutions and Numerical Case Studies of the Fornberg-Whitham Equation | Licht, C. |
| 11:45--12:05 | **Chowdhury, MK.** Military Institute of Science & Technology. Augmentation of Heat Transfer in a Tubular U Loop Pipe Using Plain Twisted Tape Insert for Different Twist Ratios | Licht, C. |
| 12:05--12:25 | **Deb, UK.** Chittagong University of Engineering & Technology (CUET). The effect of the Angle of perforation on Perforated Inserts in a Pipe flow for Heat transfer analysis | Licht, C. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:55 | * **Lai, M.** National Chiao Tung University. An Unconditionally Energy Stable Scheme for Inextensible Interface Problems with Bending | Wu, YH. |
| 13:55--14:15 | **Nuntaplook, U.** Mahidol University. Morphology-Dependent Resonances in Two-Layer Spheres with Negative Refractive Index | Wu, YH. |
| 14:15--14:35 | **Orankitjaroen, S.** Mahidol University. Mathematical Justification of the Apparition of the Electromagnetic Coupling | Wu, YH. |
| 14:35--14:55 | **Bantaokit, C.** Burapha University. Pseudo Multinomial Vectors and Their Properties | Wu, YH. |
| 14:55--15:15 | **Wiwatanapataphee, D.** Curtin University of Technology. Effect of Beam Joinery on Bridge Structural Analysis | Wu, YH. |
| 15:15--15:45 | * **Wiwatanapataphee, B.** Curtin University of Technology. Oscillating Pressure-Driven Slip Flow and Heat Transfer Through an Elliptical Microchannel | Licht, C. |
| 15:45--16:05 | * **Wake, G.** Massey University, Auckland, New Zealand. The Seasonal Effect on the Spread of Disease: Red Needle Cast in Pine Trees | Licht, C. |
| 16:05--16:25 | **Rangkuti, YM.** State University of Medan. Effect of Internal Heat Generation on Natural Convection of Micropolar Fluid in A Vertical Channel with Asymmetric Wall Temperatures and Concentrations | Licht, C. |
| 16:25--16:45 | **Saelao, J.** Maejo University. The Solution of Klein-Gordon Equation by Using Modified Adomian Decomposition Method | Licht, C. |
| 16:45--17:05 | **Shoji, M.** Japan Women's University. Stationary Water Waves on Rotational Flow of Two Vortical Layers | Licht, C. |
| 17:05--17:25 | **Sripacharasakullert, P.** Mahidol University. Approximate Analytical Solution of Fractional Multi-Dimensional Burgers Equation by Homotopy Perturbation Method | Licht, C. |
| 18:30--21:30 | *Welcoming dinner at the Grand Ballroom, 3rd floor* | |

### Room C (Crystal 3, 3rd floor)

* * * Afternoon refreshment at leisure * * *

| Time | Speaker/Title | Chair |
|---|---|---|
| 10:35--11:15 | ** **Borkowski, J.** Montana State University. An Overview of Methods for Generating Space-Filling Sets of Experimental Design Points | Pal, M. |
| 11:15--11:45 | * **Muchtadi-Alamsyah, I.** Institut Teknologi Bandung. Linear Codes Over | Pal, M. |
| 11:45--12:05 | **Buathong-Iem, E.** Mahidol University. Data Compression via Multidimensional Fibonacci Encoding | Pal, M. |
| 12:05--12:25 | **Marisinganahalli, PM.** Dr. Ambedkar Institure of Technology. Varieties of Rational metric dimensions of certain classes of regular Graphs | Pal, M. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:55 | * **Doan The, H.** College of Education, Hue university. A Weighted Volume Estimate and its Application to Bernstein Type Theorems in Gauss Space | Sanh, NV. |
| 13:55--14:25 | * **Sooryanarayana, B.** Dr. Ambedkar Institute of Technology. On Optimal Multilevel Labeling of Graphs | Ananchuen, N. |
| 14:25--14:45 | **Mudibidre, J.** Ambedkar Institute of Technology. On Classes of Rational Resolving Sets of Power Graphs of a Path | Ananchuen, N. |
| 14:45--15:05 | **Peereeyaphat, A.** Chulalongkorn University. Some Constructions of Cyclic Clique Decompositions of Power of Cycles | Ananchuen, N. |
| 15:05--15:25 | **S, Y.** Dr Ambedkar Institute of Technology, Bangalore, Karnataka, India. Anti-Multilevel Distance Radio Labelings | Ananchuen, N. |
| 15:25--15:45 | **Sequeira, SL.** B.M.S.College of Engineering, Bangalore. On the Neighborhood Alliance sets in a Graph | Ananchuen, N. |
| 15:45--16:05 | **Hegde, C.** Mangalore University. On Generalized Distance Alliances in Graphs | Ananchuen, N. |
| 16:05--16:35 | * **Artamonov, V.** Moscow State University. Polynomially Comlete Quasigroups and Their Applications | Sanh, NV. |
| 16:35--17:05 | * **Bui, XH.** National University of Ho Chi Minh City. On Free Subgroups in Maximal Subgroups of Skew Linear Groups | Sanh, NV. |
| 17:05--17:25 | **Berdinsky, D.** Mahidol University. A Note on Numerical Characteristics of Cayley Automatic Groups | Sanh, NV. |
| 18:30--21:30 | *Welcoming dinner at the Grand Ballroom, 3rd floor* | |

### Room D (Crystal 4, 3rd floor)

* * * Afternoon refreshment at leisure * * *

| Time | Speaker/Title | Chair |
|---|---|---|
| 10:45--11:15 | * **Xu, H.** Curtin University. Solving Two-Stage Stochastic Games by Progressive Hedging | Minh Man, NV. |
| 11:15--11:45 | * **Morgan, J.** Curtin University. The Quest for the Provision of Adequate and Sustainable Retirement Incomes | Minh Man, NV. |
| 11:45--12:05 | **Phewchean, N.** Mahidol University. European Option Pricing Model With Compound Ornstein-Uhlenbeck Process Under Stochastic Earning Yield and Stochastic Dividend Yield | Minh Man, NV. |
| 12:05--12:25 | **Tonking, D.** Chulalongkorn University. An Application for the Prediction of Turning Points in the Time Series of Stock Prices | Minh Man, NV. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:55 | * **Caccetta, L.** Curtin University of Technology. Operations Research in Open Pit Mining- As a Way to Maximize Opportunity and Minimise Risk | Ananchuen, N. |
| 13:55--14:25 | * **Barrios, EB.** University of the Philippines Diliman. On the Analysis of Clinical Trials with Covariates | Sinha, Bikas. |
| 14:25--14:55 | * **Mathew, T.** University of Maryland, Baltimore County. Multivariate Reference Regions in Laboratory Medicine | Sinha, Bikas. |
| 14:55--15:15 | **Chueanun, S.** Mahidol University. Values of Contract and Additional Ordering Policy in Two-stage Supply Chain | Nummi, T. |
| 15:15--15:35 | **Chaimontree, S.** Prince of Songkla University, Pattani Campus. Pattern Hotspot for Violent Incidences in Three Deep South Provinces, Thailand | Nummi, T. |
| 15:35--15:55 | **Eso, M.** Prince of Songkla University. Violent Conflict Related to Women and Children in Southernmost Provinces of Thailand | Pal, M. |
| 15:55--16:15 | **Huynh, U.** Mahidol University. Statistical Inference for Analysing Groundwater Pollution Data in Mekong Delta Region, Vietnam | Pal, N. |
| 16:15--16:35 | **Thiuthad, P.** Prince of Songkla University. On Point Estimation of the Location Parameter of a Skew-Normal Distribution | Pal, N. |
| 16:35--16:55 | **Wongprachan, R.** Maejo University. Point and Interval Estimation of the Population Size Using a Zero-Truncated Poisson Lindley distribution | Pal, N. |
| 16:55--17:15 | **Dhungana, AR.** Pokhara University. Factors Associated with Socio-economic Status of Dalit People Getting Old Age Allowance in Pokhara | Pal, N. |
| 18:30--21:30 | *Welcoming dinner at the Grand Ballroom, 3rd floor* | |

ICMA-MU 2018 Conference Program
*** Keynote speaker, ** Plenary speaker, * invited speaker

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**December 17, 2018**

**\* \* \* Afternoon refreshement at leisure \* \* \***

## Room A (Sapphire I--II, 2nd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 09:00--09:50 | **\*\*\* Huynh, DV.** Ohio University Athens <br> A Characterization of Noetherian Rings | Sanh, NV. |
| 09:50--10:20 | **\* Kwon, H.** Inha University <br> Optimal Control Problem of a SIR Reaction-Diffusion Model with Inequality Constraints | Minh Man, NV. |
| 10:20--10:40 | **Pimpunchat, B.** King Mongkut's Institute of Technology Ladkrabang <br> Mathematical Model of the Barrier-Layer Formation in the Sea: Effect of Salinity and Algae Distribution | Minh Man, NV. |
| 10:40--10:55 | *Refreshment* | |
| 10:55--11:25 | **\* Kang, M.** Seoul National University <br> Deep Learning and Some Applications | Tran D. Que. |
| 11:25--11:45 | **Buathong, P.** Mahidol University <br> A RKHS Embedding Approach to Gaussian Process Regression When Inputs are Point Sets | Tran D. Que. |
| 11:45--12:05 | **Chumchob, N.** Silpakorn University <br> A New Alternating Minimization for TV-based Image Registration | Tran D. Que. |
| 12:05--12:25 | **Anam, S.** Brawijaya University <br> Exudate Extraction in Fundus Image by Using the Maximum Entropy and the Distance Regularized Level Set Evolution Method | Tran D. Que. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:45 | **Polwiang, S.** Silpakorn University <br> The Time Series Seasonal Patterns of Dengue Fever and Associated Weather Variables in Bangkok (2003-2017) | Rattanakul, C. |
| 13:45--14:05 | **Marsudi, M.** Brawijaya University <br> Optimal Control Strategies and Cost Effectiveness Analysis of HIV Model with Educational Campaign and Treatment | Rattanakul, C. |
| 14:05--14:25 | **Trisilowati, T.** Brawijaya University <br> Optimal Control of a Tumor-Immune System Interactions Model with Chemotherapy | Rattanakul, C. |
| 14:25--14:45 | **Bunkluarb, N.** Mahidol University <br> Numerical Simulation for Efficient Static Mixers with Different Geometries | Rattanakul, C. |
| 14:45--15:05 | **Busaman, A.** Prince of Songkla University <br> Simulation and Modeling of Mae-suai Dam Break | Rattanakul, C. |
| 15:05--15:25 | **Charoenpong, J.** King Mongkut's Institute of Technology Ladkrabang <br> Simulation with GUI in MATLAB of Ocean Wave and Erosion in the Southern Thailand's East Coast | Tangmanee, S. |
| 15:25--15:45 | **Chomcheon, S.** Mahidol University <br> Numerical Simulation of Air Pollutant in Street Canyon with the Sky-Train Station | Tangmanee, S. |
| 15:45--16:05 | **Kaennakham, S.** Suranaree University of Technology <br> A Numerical Test on a Hybrid Shapefree Radial Basis Function in Dual Reciprocity Boundary Element Method | Tangmanee, S. |
| 16:05--16:25 | **Rangkuti, YM.** State University of Medan <br> Stability Analysis of SEIR Model of Tuberculosis with Recovery Time Delay in Medan | Tangmanee, S. |
| 16:25--16:45 | **Saenkarun, S.** Ubon Ratchathani University <br> A Steady-state Mathematical Model for Groundwater Quality Measurement under a Landfill Site using a Finite Difference Method | Tangmanee, S. |
| 16:45--17:05 | **Sirisubtawee, S.** King Mongkut's University of Technology North Bangkok <br> A Caputo-Fabrizio Fractional Differential Equation Model for HIV/AIDS with Treatment Compartment | Tangmanee, S. |

## Room B (Crystal 1--2, 3rd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 09:50--10:10 | **Chartbupapan, W.** Khonkaen University <br> New passivity analysis for certain neutral integro-differential equations with non-differentiable interval time-varying delays | Moore, E. |
| 10:10--10:30 | **Chawengkrittayanont, P.** King Mongkut's University of Technology North Bangkok <br> Third-Order Sliding Mode Control for Uncertain Second-Order Nonlinear Systems | Moore, E. |
| 10:30--10:45 | *Refreshment* | |
| 10:45--11:05 | **Kaewbanjak, N.** Kasetsart University <br> On Delay-Range-Dependent Robust Stability of LPD Discrete-Time System with Mixed Interval Time-Varying Delays and Nonlinear Perturbations | Moore, E. |
| 11:05--11:25 | **Tangsiridamrong, P.** Khon Kaen University <br> Stability and Passivity Analysis of Uncertain Linear Discrete-Time System with Mixed Interval Time-Varying Delays | Moore, E. |
| 11:25--11:45 | **Udpin, S.** Kasetsart University Kamphaeng Sean Campus <br> Exponential Stability of Discrete-Time Uncertain Neural Networks with Time-Varying Leakage Delays | Moore, E. |
| 11:45--12:05 | **Leekparn, T.** King Mongkut's University of Technology North Bangkok <br> Applications of the modified Kudryashov method for solving the conformable space-time fractional complex Ginzburg-Landau equations | Moore, E. |
| 12:05--12:25 | **Rojsiraphisal, T.** Chiang Mai University <br> New Finite-Time Stability and Stabilization Criterion of Linear System with Time-varying Delay using New Integral Inequalities | Moore, E. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:45 | **Prasertsang, P.** Kasetsart University, Chalermprakiat Sakon Nakhon Province Campus <br> Exponential Function Projective Synchronization Between Two Delayed Neural Networks via Hybrid Adaptive Periodically Intermittent Control | Ramachandran, R. |
| 13:45--14:05 | **Botmart, T.** Khon Kaen University <br> New Analysis on Robust $H_\infty$ Controller Design for Exponential Stability of Uncertain Delayed Neural Networks via Hybrid Feedback Control | Ramachandran, R. |
| 14:05--14:25 | **Weera, W.** University of Pha Yao <br> A New Approach to Exponential Stability Analysis of New Certain Nonlinear Neutral Differential Equations with Mixed Time-Varying Delays | Ramachandran, R. |
| 14:25--14:45 | **Emharuethai, C.** Maejo University <br> $H_\infty$ control for neural networks with time varying delay based on an improved reciprocally convex inequality | Ramachandran, R. |
| 14:45--15:05 | **Meesuptong, B.** Khon Kaen University <br> Improved Delay-Dependent Exponential Stability Criteria for Neutral System with Time-Varying Delays and Nonlinear Uncertainties | Ramachandran, R. |
| 15:05--15:25 | **Pinjai, S.** Rajamangala University of Technology Lanna <br> Exponential Stability and $H_\infty$ Performance for Neutral Systems with Interval Time-Varying Delays and Nonlinear Perturbations | Ramachandran, R. |
| 15:25--15:45 | **Samorn, N.** Khon Kaen University <br> New Results on Delay-range-dependent Robust Exponential Stability for Uncertain Neutral Systems with Mixed Interval Time-varying Delays and Nonlinear Perturbations | Ramachandran, R. |
| 15:45--16:05 | **Tino, N.** Chiangmai University <br> Finite-Time Synchronization Analysis Between Two Different Chaotic Systems by Virtue of Adaptive Sliding Mode Control | Baowan, D. |
| 16:05--16:25 | **Chuai-Aree, S.** Prince of Songkla University, Pattani Campus <br> Predicting Hourly Solar Energy Map from Satellite Images Using Fast Artificial Neural Networks | Baowan, D. |
| 16:25--16:45 | **Suksamran, J.** King Mongkut's University of Technology North Bangkok <br> A Reaction Diffusion Model for Fish Population Incorporating Time Dependent Fishery Intensity: Travelling Wave Solution | Baowan, D. |
| 16:45--17:05 | **Sukwong, N.** King Mongkut's University of Technology North Bangkok <br> Blow-up Phenomena for a Porous Medium Equation with a Nonlocal Source | Baowan, D. |

## Room C (Crystal 3, 3rd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 09:50--10:10 | **Phudolsitthiphat, N.** Chiang Mai University <br> Pair Upper Class of Type on Coupled Coincidence Point Results in Partially Ordered JS-Metric Spaces | Rattanakul, C. |
| 10:10--10:30 | **Triska, A.** Institut Teknologi Bandung <br> Pattern Formation of Spatial Epidemic Model: Effect of Cross Diffusion and Varying Initial Conditions | Rattanakul, C. |
| 10:30--10:45 | *Refreshment* | |
| 10:45--11:15 | **\* Le, VT.** Hue University <br> On Automorphism-Invariant Rings with Chain Conditions | Quynh, TC. |
| 11:15--11:45 | **\* Le, AV.** University of Economics and Law, VNU-HCMC <br> Apply Matrix Congruence To Classify Real Solvable Lie Algebras Having 1-codimensional or 2-codimensional Derived Ideal | Quynh, TC. |
| 11:45--12:05 | **Wadsanthat, A.** Mahidol University <br> Dynamics of Some Quadratic Maps on Finite Fields of Characteristic Two | Quynh, TC. |
| 12:05--12:25 | **Bosuwan, N.** Mahidol University <br> Inverse Results on Row Sequences of Multipoint Padé Approximants | Quynh, TC. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:45 | **Nanthanasub, T.** Mahidol University <br> Logarithmic Concavity of Modified Bessel Function of the First Kind | Maneesawarng, C. |
| 13:45--14:05 | **Sawangtong, P.** King Mongkut's University of Technology North Bangkok <br> Green's Function Homotopy Perturbation Method for the Initial-Boundary Value Problems | Maneesawarng, C. |
| 14:05--14:25 | **Thanompolkrang, S.** Burapha University <br> Generalized Fractional Power Series to Conformable Fractional Differential Equations | Maneesawarng, C. |
| 14:25--14:45 | **Rajchakit, G.** Maejo University <br> Stability of Switched Discrete-Time Systems | Maneesawarng, C. |
| 14:45--15:15 | **\* Nam, TT.** Ho Chi Minh University of Pedagogy <br> Some Finiteness Results for Co-Associated Primes of Generalized Local Homology Modules | Vu, LA. |
| 15:15--15:35 | **Saengsura, K.** Mahasarakham University <br> Clones of Co-Operations Defined on {0,1,2} | Vu, LA. |
| 15:35--16:05 | **\* Wijayanti, IE.** Universitas Gadjah Mada <br> On the Generalization of Idealizer in Modules over Endomorphisms Ring | Sanh, NV. |
| 16:05--16:35 | **\* Quynh, TC.** Danang University <br> Some Results on Automorphism-Invariant Modules | Sanh, NV. |
| 16:35--16:55 | **Panichkitkosolkul, W.** Thammasat University  Interval Estimator for the Standard Deviation of a Normal Distribution with a Known Coefficient of Variation and a Bounded Population Mean | Quynh, TC. |

## Room D (Crystal 4, 3rd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 09:50--10:10 | **A S, S.** REVA University <br> Characterization and Realization of Graphs of Neighbourhood Metric Dimension Two | Ananchuen, N. |
| 10:10--10:30 | **Abidin, W.** Bandung Institute of Technology <br> Non-Isolated Resolving Sets of Corona Graphs with (n-2)-Regular Graph | Ananchuen, N. |
| 10:30--10:45 | *Refreshment* | |
| 10:45--11:05 | **Kaewnimit, S.** Mahidol University <br> Analyzing the Efficiency of the Traffic Light Phasing System of the Traffic Circle at Victory Monument (Thailand) with Graph Theory | Ananchuen, N. |
| 11:05--11:25 | **M, VK.** REVA University <br> Anti Resolving Sets of a Graph | Ananchuen, N. |
| 11:25--11:45 | **Nambuddee, N.** Khon Kaen University <br> An Explore of Teachers' Interpretation of Mathematics Textbook about Addition and Subtraction by Using Lesson Study and Open Approach | Ananchuen, N. |
| 11:45--12:05 | **Thinwiangthong, S.** Khon Kaen University <br> Development of Teachers' Ability of Formative Assessment by Using Lesson Study and Open Approach | Ananchuen, N. |
| 12:05--12:25 | **David, R.** Iwate Prefectural University <br> The Calculus Behind Learning in DNNs Revisited | Ananchuen, N. |
| 12:25--13:25 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:25--13:55 | **\* Pal, M.** University of Calcutta <br> D-Optimal Designs for Estimation of Optimum Mixture in a Three-Component Mixture Experiment with Two Responses | Pal, N. |
| 13:55--14:25 | **\* Nummi, T.** University of Tampere <br> New Methods for the Analysis of Cardiology Ambulatory Data | Pal, N. |
| 14:25--14:55 | **\* Sinha, BK.** Retired Professor from ISI <br> Reliability Estimation and Prediction Problems in Exponential Samples | Pal, N. |
| 14:55--15:25 | **\* Yu, P.** The University of Hong Kong <br> Improved Estimation of Population Proportion using Ranked Set Sampling | Sinha, Bimal. |
| 15:25--15:45 | **Musikasuwan, S.** Prince of Songkla University, Pattani Campus <br> Statistical Analysis of Solar Radiation in Southern Thailand | Sinha, Bimal. |
| 15:45--16:05 | **Saelim, R.** Prince of Songkla University, Pattani Campus <br> Modeling Land Surface Temperature Change in South China from 2000 to 2018 | Sinha, Bimal. |
| 16:05--16:25 | **Thongratta, PT.** Kasetsart University <br> An Effects of Climate Change on Rice Production, Acreage and Yield in Thailand | Sinha, Bimal. |
| 16:25--16:45 | **Astutik, S.** Universitas Brawijaya <br> Spatio-Temporal Variogram: The Comparation of Spatio-Temporal Covariances Model on Rainfall Data | Sinha, Bimal. |
| 16:45--17:05 | **Nguyen, M.** Mahidol University <br> Spatial Data Analysis for Air Pollution Prediction | Sinha, Bimal. |

updated:16-12-18

ICMA-MU 2018 Conference Program
*** Keynote speaker, ** Plenary speaker, * invited speaker

## December 18, 2018

**\* \* \* Afternoon refreshment at leisure \* \* \***

### Room A (Sapphire I–II, 2nd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 09:00–09:50 | **\*\*\* Sinha, BK.** University of Maryland, Baltimore County — Some Aspects of Big Data | Borkowski, J. |
| 09:50–10:30 | **\*\* Ramachandran, R.** Alagappa University — Fractional Delay Segments on Time-Delayed Recurrent Neural Networks with Impulsive and Stochastic Effects: an Exponential Stability Approach | Tangmanee, S. |
| 10:30–10:45 | *Refreshment* | |
| 10:45–11:15 | **\* Van Wouwe, M.** University of Antwerp — Detection and Smoothing of Outliers in Univariate and Multivariate Triangles using the Chainladder method | Minh Manh, NV. |
| 11:15–11:35 | **Konglok, SA.** Kasetsart University Si Racha Campus — Numerical Simulations of Three-Dimensional Air Pollution Measurement of Multiple Point Sources Model with Several Atmospheric Stability Classes using Fractional Step Method | Tangmanee, S. |
| 11:35–11:55 | **Pochai, N.** King Mongkut's Institute of Technology Ladkrabang — A One-dimensional Mathematical Simulation to Salinity Control in a River with a Barrage Dam using an Unconditionally Stable Explicit Finite Difference Method | Tangmanee, S. |
| 11:55–12:15 | **Pornsawad, P.** Silpakorn University — Convergence Rate Analysis for the Modified Landweber Method of Nonlinear Ill-Posed Problems | Tangmanee, S. |
| 12:15–12:35 | **Vanishkorn, B.** King Mongkut's Institute of Technology Ladkrabang — A Numerical Computation of Time-Independent Water Quality Measurement Model in a Uniform Flow Stream Using a Chebyshev Collocation Technique | Tangmanee, S. |
| 12:35–13:35 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:35–13:55 | **Pothiphan, S.** Mahidol University — Effects of The Wind Speeds on Heat Transfer in a Street Canyon with a Sky-Train Station | Lenbury, Y. |
| 13:55–14:15 | **Jankaew, K.** Mahidol University — A Mathematical Model of Mealybug and Green Lacewing with Time Delay | Lenbury, Y. |
| 14:15–14:35 | **Rattanakul, C.** Mahidol University — Dynamical Modelling of the Control of Brown Planthopper by a Biological Control Agent and a Pathogen | Lenbury, Y. |
| 14:35–14:55 | **Chamchod, F.** Mahidol University — Optimal Vaccination of a Fractional-Order System for Controlling the Spread of an Infectious Disease Among Small Ruminants | Lenbury, Y. |
| 14:55–15:15 | **Chanman, N.** Mahidol University — A Mathematical Model of Antibiotic Resistance Evolution: Effects of Drug Interactions | Lenbury, Y. |
| 15:15–15:35 | **Chomcheon, S.** Mahidol University — Stability and Hopf Bifurcation in a Model of Drug Resistance with Conversion Delay and Impulsive Antibiotic Treatments | Lenbury, Y. |
| 15:35–15:55 | **Putthikorn, S.** Mahidol University — Encapsulation Energy of Drug Molecule into Lipid Nanotube | Lenbury, Y. |

### Room B (Crystal 1–2, 3rd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 09:50–10:30 | **\*\* Bohning, D.** University of Southampton — Research Synthesis of Rare Count Outcome Data Arising from Several Studies | Mathew, T. |
| 10:30–10:45 | *Refreshment* | |
| 10:45–11:15 | **\* Wang, S.** Curtin University — Recent Advances in Numerical Methods for HJB Equations Arising in Financial Engineering | Rattanakul, C. |
| 11:15–11:35 | **Satiracoo, P.** Mahidol University — Parameter Estimation of a Stochastic Model of Gastric Emptying | Rattanakul, C. |
| 11:35–11:55 | **Vatiwutipong, P.** Mahidol University — Alternative Way to Derive the Distribution of the Multivariate Ornstein-Uhlenbeck Process | Rattanakul, C. |
| 11:55–12:15 | **Chaichuay, C.** King Mongkut's Institute of Technology Ladkrabang — A Steady State Mathematical Model of Nitrate Dispersion Measurement in a Uniform Flow Stream | Rattanakul, C. |
| 12:15–12:35 | **Pornprakun, W.** King Mongkut's University of Technology North Bangkok — Optimization of Sugarcane Harvesting using ε-Constraints and Optimal Control Methods | Rattanakul, C. |
| 12:35–13:35 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:35–14:05 | **\* Thamwattana, N.** The University of Newcastle, Australia — Modelling Neural Cells and Cell-Cell Interactions in Phagocytosis | Baowan, D. |
| 14:05–14:25 | **Kaewvichai, R.** Mahidol University — Stability and Bifurcation of a Fractional Derivative Model for Describing the Removal of an Organic Pollutant from Water | Tangmanee, S. |
| 14:25–14:45 | **Ketchuea, T.** Mahidol University — Estimates of Tapee River Discharge Using the Saint Venant Equations | Tangmanee, S. |
| 14:45–15:05 | **Sangngam, R.** Mahidol University — A Mathematical Modelling of Gastrointestinal Tract: An Influence of Gastric Emptying on Glucose Concentration | Tangmanee, S. |
| 15:05–15:25 | **Lenbury, Y.** Mahidol University — Analysis of Advection- Diffusion-Reaction Model for Fish Population Movement with Impulsive Tagging: Stability and Travelling Wave Solution | Tangmanee, S. |
| 15:25–15:45 | **Srikhaetai, K.** Mahidol University — Numerical Prediction of Oil Spill Trajectory in the Gulf of Thailand | Tangmanee, S. |

### Room C (Crystal 3, 3rd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 09:50–10:30 | **\*\* Dinh, HQ.** Kent State University — Symbol-Pair Distance Distribution of Repeated-Root Constacyclic Codes of Prime Power Length over Finite Fields | Huynh, DV. |
| 10:30–10:45 | *Refreshment* | |
| 10:45–11:15 | **\* Tran, DQ.** Post and Telecommunications Institute of Technology (PTIT) — Similar Measure and Computational Functions for Topic Trust in Social Network | Hai, BX. |
| 11:15–11:35 | **Promdee, N.** Khon Kaen University — Exponential Passivity and Stability for Uncertain Neural Networks with Mixed Interval Time-Varying Delays | Ramachandran, R. |
| 11:35–11:55 | **Srisuntorn, R.** Khon Kaen University — Modified Function Projective Synchronization of Master-Slave Neural Networks with Mixed Interval Time-Varying Delays via Intermittent Feedback Control | Ramachandran, R. |
| 11:55–12:15 | **Thipcha, J.** Maejo University — Exponential Stability for Genetic Regulatory Networks (GRNs) with Mixed Time-varying Delays | Ramachandran, R. |
| 12:15–12:35 | **Yotha, N.** Rajamangala University of Technology Isan — Mixed $H_{\infty}$ / Passive Function Projective Synchronization of Delayed Neural Networks with Hybrid Coupling based on Pinning Sampled-Data Control | Ramachandran, R. |
| 12:35–13:35 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:35–14:05 | **\* Long, BT.** University of Technology, Vietnam National University — Inverse Algorithm for Determination Suspected Resources for Water Pollution Control | Minh Man, NV. |
| 14:05–14:25 | **Warapathirunmas, C.** Mahidol University — An Individual-Based Model for 2009 Pandemic Influenza A (H1N1) Transmission in Bangkok | Sawangtong, W. |
| 14:25–14:45 | **Modchang, C.** Mahidol University — Mathematical Modelling of Zika Virus Transmission in Brazil: Effects of Seasonal Change | Sawangtong, W. |
| 14:45–15:05 | **Aekthong, S.** Mahidol University — An Investigation of the Spread of Cassava Mealybugs in a Cassava Field With a Biological Control by the {\it Anagyrus Lopezi} Wasps: Modeling and Simulation | Sawangtong, W. |
| 15:05–15:25 | **Manorod, S.** Mahidol University — Mathematical Modelling of a Biological Control of Brown Planthoppers | Sawangtong, W. |
| 15:25–15:45 | **Bunwong, K.** Mahidol University — Effects of Changes in Salinity on Osmoconforming Bivalves via Energy Balance and Impulsive Mathematical Model | Sawangtong, W. |
| 15:45–16:05 | **Sunthawanic, K.** Mahidol University — Oyster Population Dynamics with Seasonal Forcing in Salinity-Dependent Mortality | Sawangtong, W. |

### Room D (Crystal 4, 3rd floor)

| Time | Speaker/Title | Chair |
|---|---|---|
| 10:45–11:15 | **\* Pal, N.** University of Louisiana at Lafayette — Hypothesis Testing on the Mean of a Skew-Normal Distribution with Applications to Stock Market Data | Bohning, D. |
| 11:15–11:45 | **\* Rao, KM.** University of Botswana — Market Sentiments Paradigm-Probability Model Based Inference | Bohning, D. |
| 11:45–12:05 | **Haughton, D.** Bentley University — Dynamics of Reward-based Crowdfunding: Kickstarter Rock Music Projects | Bohning, D. |
| 12:05–12:25 | **Vatiwutipong, P.** Mahidol University — Modeling Dividend Yield of SET50 Index with a Stochastic Earning Yield | Bohning, D. |
| 12:35–13:35 | *Lunch (Roberto Room, 2nd floor)* | |
| 13:35–14:05 | **\* Sheen, D.** Soeul National University — An Algebraic Multiscale Method | Licht, C. |
| 14:05–14:25 | **Techitnutsarut, P.** Mahidol University — Transmission Dynamics of Rabies Among Vagrant Dogs: Short- and Long-Term Incubation, Seasonality, and Vaccination | Licht, C. |
| 14:25–14:45 | **Terapabkajornded, Y.** Mahidol University — Thin Linearly Viscoelastic Kelvin-Voigt Type Plates Revisited | Licht, C. |
| 14:45–15:05 | **Triampo, W.** Mahidol University — Modelling the Effects of Light on the Growth of Algae | Licht, C. |
| 15:05–15:25 | **Khlongkhoi, P.** Mahidol University — A Deep Learning Technique of Oil Spill Prediction in the Gulf of Thailand | Licht, C. |
| 15:25–15:45 | **Sriwichien, S.** Mahidol University — Numerical Simulation of Oil Spill in the Gulf of Thailand Using Ocean Wave Model | Licht, C. |
| 15:45–16:05 | **Songsanga, D.** Mahidol University — Estimation for Basic Reproduction Number of Zika modelling | Licht, C. |

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