

# ICMA-MU 2022 Conference Program

\*\*\* Keynote speaker, \*\* Plenary speaker, \* Invited speaker

December 15, 2022

Room A (Crystal 3-4, 3rd floor) [remote presentation/attendance admissible]		
Time	Speaker/Title	Chair
07:30--08:30	Registration	
08:30--09:00	Opening ceremony: - Report by Asst. Prof. Pannapa Changpetch, ICMA-MU2022 local organizing committee member - Opening speech by Prof. Wachira Kochakarn, M.D. FACS., Vice President for Human Resource Development, Mahidol University	
09:00--09:50	*** Agarwal, RP.  Texas A&M University-Kingsville  Unbounded Solutions of Third Order Three-Point Boundary Value Problems on a HalfLine	Lenbury, Y.
09:50--10:30	** Bui, L.  Ho Chi Minh City University of Technology  Pollution Assessment in Case of Anomalous Discharger Based on the Streeter-Phelps Model	Lenbury, Y.
10:30--10:50	Refreshment	
10:50--11:20	* Broadbridge, P.  La Trobe University  Exact Solutions for Nonlinear Hyperbolic Reaction-Diffusion Equations	Baowan, D.
11:20--11:50	* Wiwatanapataphee, B.  Curtin University  Long and Short-Term Prediction of Freeway Traffic Flow under Road Incidents Using Machine Learning	Baowan, D.
11:50--13:20	Lunch (Jess Room, 1st floor)	
13:20--13:50	* Bracco, C.  University of Florence  Reconstructing Surfaces from Scattered Data	Berdinsky, D.
13:50--14:20	* Nguyen, TQ.  The People's Police University of Technology and Logistics  Modified Self-Adaptive Block-Iterative-Schemes for a Class of Variational Inequalities	Berdinsky, D.
14:20--14:40	Bejrakarbun, P.  Thammasat University  Involutive Weak $\omega$ -categories	Berdinsky, D.
14:40--15:00	Refreshment	
15:00--15:20	Yotongyos, K.  Chiang Mai University  High Precision Modeling of COVID-19 Using SIRDV Model with Time-Varying Parameters	Khajohnsaksumeth, N.
15:20--15:40	Sae-Jie, W.  Prince of Songkla University, Surat Thani Campus  A Stage-Based Model for Monoculture Pond of Asian Sea Bass	Khajohnsaksumeth, N.
15:40--16:00	Jaitrong, J.  Mahidol University  Comparison of Pre-Trained Convolutional Neural Network Models for Medical Imaging	Khajohnsaksumeth, N.

18:30--21:30 Welcome dinner at Sapphire Room, 2nd floor

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Room B (Crystal 1--2, 3rd floor)		
Time	Speaker/Title	Chair
10:50--11:20	* Anh Vu, L.  University of Economics and Law, VNU-HCM  The Classification of Real Solvable Lie Algebras Whose Derived Algebras Have Codimension up to 2	Kositwattanarerk, W.
11:20--11:50	* Pham Phuong, T.  Thang Long University  Refined Experience Topic-Aware Trust in Social Networks	Kositwattanarerk, W.
11:50--13:20	Lunch (Jess Room, 1st floor)	
13:20--13:50	* Phan, T.  Hue University, Faculty of Sciences  Optimality Conditions for Nonsmooth Vector Problems in Normed Spaces	Laesanklang, W.
13:50--14:20	* Rujeerapaiboon, N.  National University of Singapore  Chebyshev Inequalities for Products of Random Variables	Laesanklang, W.
14:20--14:40	Sansuk, K.  Chulalongkorn University  Temperature of Perfect Fluid Black Holes in Two Coordinates and Entropy Composition of Black Hole Systems	Laesanklang, W.
14:40--15:00	Refreshment	
15:00--15:30	* Inprasitha, M.  Khon Kean University  Computational and Statistical Thinking for ABCD as General Education Course	Satiracoo, P.
15:30--15:50	Srichana, P.  Curtin University  Stock Price Prediction with Global Incidents Using Long-Short Term Memory	Satiracoo, P.

18:30--21:30 Welcome dinner at Sapphire Room, 2nd floor

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Time	Speaker/Title	Chair
09:00--09:50	*** Lin, D.  Purdue University  Data is Power - The Role of Statistics in Modern Data Science	Changpetch, P.
09:50--10:30	** Wake, GC(1) and Spencer, HG(2).  (1) Massey University, Auckland University of Technology, (2) University of Otago  Epigenetics, Predictive Adaptive Responses and a Model of Optimal Timing	Changpetch, P.
10:30--10:50	Refreshment	
10:50--11:20	* Wang, W.  Wellesley College  Quantifying Uncertainty of Subsampling-Based Ensemble Methods	Changpetch, P.
11:20--11:50	* Haughton, D.  Bentley University  Causal Business Analytics: Uplift Models and Directed Acyclic Graphs	Changpetch, P.
11:50--13:20	Lunch (Roberto Room, 2nd floor)	
13:20--13:50	* Wu, YH.  Curtin University  A Data-Driven Traffic Optimization Method for Minimizing Total Travel Times	Licht, C.
13:50--14:20	* De Gaetano, A.  Biomathematics Laboratory, CNR IASI  Fractional Stochastic Differential Models of Glucose Control	Licht, C.
14:20--14:50	* Thamwattana, N.  University of New Castle, Australia  Reaction-Diffusion Equation for Modelling Dye-Sensitized Solar Cells	Licht, C.
14:50--15:10	Refreshment	
15:10--15:40	* Licht, C.  CNRS, Montpellier  Asymptotic Modeling Versus Asymptotic Model	Orankitjaroen, S.
15:40--16:00	Terapabkajornded, Y.  Mahidol University  Asymptotic Modeling of Thin Linearly Visco-Elastic Kelvin-Voigt Type Plates via Trotter Theory Revisited	Orankitjaroen, S.

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Room B (Crystal 1--2, 3rd floor)		
Time	Speaker/Title	Chair
10:50--11:20	* Isoda, M.  University of Tsukuba  Develop Computational Thinking as for Mathematical Thinking: An Issue to Renovate School Mathematics on Digital Society under Mathematics Capitalism	Rattanakul, C.
11:20--11:40	Panchuey, S.  Mahidol University  Integrating k-NN with Other Mining Techniques to Improve Classification Performance Demonstrated with Healthcare Dataset	Rattanakul, C.
11:40--13:10	Lunch (Roberto Room, 2nd floor)	
13:10--13:40	* Pal, M.  St. Xavier's University  Exact Inference in a Multinomial Distribution	Unhapipat, S.
13:40--14:10	* Pal, N.  University of Louisiana at Lafayette  A Class of Goodness of Fit Tests for Farlie-Gumbel-Morgenstern Copula	Unhapipat, S.
14:10--14:40	* Tran, QD.  Posts and Telecommunications Institute of Technology  Computational Topic-Aware Trust with Refined Interaction and Reputation in Social Network	Unhapipat, S.
14:40--15:00	Refreshment	
15:00--15:30	* Laosinchai, P.  Mahidol University  Making Mathematics Meaningful to High School and Tertiary Students	Chaowicharat, E.
15:30--15:50	Asanjarani, A.  The University of Auckland  An Evaluation of the Effectiveness of a Visualisation Tool in the Teaching of Markov Chains	Chaowicharat, E.

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09:00--09:20	Bosuwan, N. Mahidol University Rate of Convergence of Multipoint Hermite-Padé Approximants	Berdinsky, D.
09:20--09:40	Wajasat, M. Mahidol University On Gonchar's Theorem for Hermite-Padé Approximants to Polynomial Expansions	Berdinsky, D.
09:40--10:00	Bui, PM. Mahidol University On Z-Symmetric Modules	Berdinsky, D.
10:00--10:20	Kruengthomya, P. Mahidol University Generalizing Fellow Traveller Property for Non-Automatic Groups	Berdinsky, D.
10:20--10:40	Refreshment	
10:40--11:00	Arunsingkarat, S. Mahidol University Machine Learning in Mortality Modelling for a Selected Group of Thai Population	Sawangtong, W.
11:00--11:20	Ton Thai Duong, D. VietNam National University - Ho Chi Minh City Apply Fuzzy Integral for Multi-Criteria Decision Making in University Admission	Sawangtong, W.
11:20--11:40	Yingyongsakul, S. Mahidol University Energy Behaviour of Graphene and Graphene Oxide	Sawangtong, W.
11:40--13:10	Lunch (Roberto Room, 2nd floor)	

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09:00--09:20	Yutitumsatit, T. Mahidol University Methods for Exchanging Physical Goods on a Blockchain	Kositwattanakark, W.
09:20--09:40	Saksuriya, P. Chiang Mai University Vehicle Routing Problem with Time Windows to Minimize Total Completion Time in Home Health Care Systems	Kositwattanakark, W.
09:40--10:00	Boehning, D. University of Southampton How Often Should We Repeat a Diagnostic Test Screening for a Medical Condition?	Kositwattanakark, W.
10:00--10:20	Huynh, U. University of Economics and Law, Vietnam National University A Statistical Study of Vietnamese Banks' Profitability	Kositwattanakark, W.
10:20--10:40	Refreshment	
10:40--11:00	Hanmuntham, P. Chulalongkorn University Estimation of the Win-Probabilities for Comparing Two Negative Binomial Variables	Man, NV.
11:00--11:20	Kummaraka, U. Thammasat University Interval Estimation of the Dependence Parameter in Bivariate Clayton Copulas	Man, NV.
11:20--11:40	Niyomdech, A. Thammasat University On the Zero-Truncated Compounded Gamma Poisson Distribution	Man, NV.
11:40--13:10	Lunch (Roberto Room, 2nd floor)	