

CONFERENCE PROGRAM

Keynote Session: 50 minutes, Plenary Session: 40 minutes, Invited Session: 30 Minutes, Contributed Paper: 20 minutes

Dec 17 2016	Room A : Phanurungsi A			
8:00-9:00	Registration			
9:00-9:30	Opening Ceremony Welcoming Address: H. Dr. Kopr Kritayakirana, Senior Advisor to National Science and Technology Development Agency; Advisor to Ministry of Science and Technology Opening Address: Assoc. Prof. Sittiwat Lertsiri, Dean, Faculty of Science, Mahidol University			
9:30-10:20	Keynote Session Prof. Efim Zelmanov, Fields Medalist Department of Mathematics, UC San Diego, USA Embeddings of Algebras			
10:20-10:30	Group Photo Session			
10:30-10:50	Coffee Break			
10:50-11:30	Plenary Session I: Prof. Graeme Wake Massey University, Auckland, New Zealand Blast from the Past and at a Distance: Applications of Non-Local Calculus			
11:30-12:10	Plenary Session II: Prof. Chidchanok Lursinsup Department of Mathematics and Computer Science, Chulalongkorn University, Thailand Combining New Fast Opposite Gradient Search with Ant Colony Optimization for Solving Travelling Salesman Problem			
12:10-13:10	Lunch : Fangnam Coffee Shop			
	Room A : Phanurungsi A	Room B : Phanurungsi C	Room C : Bongkotrat A	Room D : Busabongkot A
13:10-13:40	Invited Speaker A1: Graeme Wake Mathematics-in-Industry Initiatives in the Asia-Pacific Region	Invited Speaker B1: Hai Quang Dinh Algebraic Structure of Repeated-root Constacyclic Codes of Prime Power Lengths over Finite Commutative Chain Rings	Invited Speaker C1: Dankmar Böhning Some General Points for the Zero-Truncated Mixture Likelihood with Validation Information	Invited Speaker D1: Duangkamon Baowan Mathematical Modelling in Nanotechnology
13:40-14:00	Contributed Talk A1: Yongwimon Lenbury Role and Scope of National Research Council in Support of R&D: Past & Future	Invited Speaker B2: Phung Ho Hai On the Projectivity over Hopf Subalgebras of Hopf Algebras over Dedekind Rings	Invited Speaker C2: Manisha Pal Optimum Designs for Parameter Estimation in A Mixture Experiment with Two Correlated Responses	Contributed Talk D1: Shayhan Chowdhury Detection of Multiple and Partially Occluded Humans Based on Adaptive Background Subtraction and Improved Histogram of Oriented Gradients
14:00-14:20	Contributed Talk A2: Akapak Charoenloedmongkhon Numerical Simulation of Particle Mixing in Vertical Silo using Finite Element Method			Contributed Talk D2: Kamonchat Trachoo Three-Dimensional Simulation of the Molar Tooth While Chewing Using Finite Element Method
14:20-14:40	Contributed Talk A3	Invited Speaker B3: Nguyen Tu Cuong On the Index of Reducibility in Noetherian Modules	Invited Speaker C3: Bikas K. Sinha Coverage Probability and Exact Inference	Contributed Talk D3: Meechoke Choodoung Red Blood Cell Counting by Using Video Processing with Open CV
14:40-15:00	Coffee Break			

Dec 17 2016	Room A : Phanurungsi A	Room B : Phanurungsi C	Room C : Bongkotrat A	Room D : Busabongkot A
15:00-15:30	Invited Speaker A2: Roger J. Hosking Firing up El Nino	Invited Speaker B4: Roozbeh Hazrat Leavitt Path Algebras	Invited Speaker C4: Guido Knapp Meta-analysis of Binary Data: One-step versus Two-step Approaches	Contributed Talk D4: Satanat Kitsiranuwat Characterizing Network Topology of Disorder Proteins in Protein Interaction Networks
15:30-15:50	Contributed Talk A4: Jittranuch Kitkla The Impact of Climate Cycle (El Nino and La Nina) in Rice Production in Thailand	Invited Speaker B5: Le Van Thuyet Modules Which are Invariant Under Idempotents of Their Envelopes	Invited Speaker C5: Tapio Nummi A Spline Growth Model for Multivariate Data	Contributed Talk D5: Chidchanok Chornkrathok Characterization of Clustering Coefficient for Signed Weighted Gene Co-Expression Network
15:50-16:10	Contributed Talk A5: Nopparat Pochai A Numerical Simulation of a Three- dimensional Air Quality Model in an Area Under a Bangkok Sky Train Platform Using an Explicit Finite Difference Scheme			Invited Speaker D2: Bui Ta Long The Dispersion Model and Inverse Problems in the Protection of Atmospheric Environment
16:10-16:30	Contributed Talk A6: Sureerat Areeraksakul Konglok Numerical Treatment of a Three-dimensional Multi-sources Air Pollutant Dispersion Model in an Industrial Area with Variations Atmospheric Stability Classes	Invited Speaker B6: Hieu Doan The A Bernstein Type Result for Entire f - Maximal Graphs in the Lorentzian Product $G^n \times R_1$	Invited Speaker C6: Kofi Adragni Minimum Average Deviance Estimation for Sufficient Dimension Reduction	Contributed Talk D6: Ujjwal Kumar Deb The Effect of Irradiance Related Temperature on Microalgae Growth in a Tubular Photobioreactor
16:30-16:50	Contributed Talk A7: Nopparat Pochai Unconditional Stable Numerical Techniques for a Water-Quality Model in a Nonuniform Flow Stream	Contributed Talk B1: A. Raghavendra A Study on Rational Metric Energy of a Graph	Contributed Talk C1: Inpong Luanglath New Log-Likelihood Estimation Function	Contributed Talk D7: Somkid Amornsamankul Algae Based Shore Protection Model: Wave Energy
16:50-17:10	Contributed Talk A8: Nopparat Pochai Numerical Simulation of a Two-dimensional Air Pollution Model in an Urban Street Canyon	Contributed Talk B2: K. Shreedhar Forbidden Sub Graphs For Graphs of Given Metric Dimension	Contributed Talk C2: Marzukee Mayeng Statistical Modelling for Wind Direction and Velocity in Amritsar	Contributed Talk D8: Charin Modchang Mathematical Modeling of Infectious Disease Transmission in Macroalgae
17:10-17:30	Contributed Talk A9: Mohamed M S Nasser Numerical Computing of Preimage Domains of Canonical Slit Domains	Contributed Talk B3: Bety Hayat Susanti Rainbow 2-connectivity of Strong Product of a k-connected Graph and a Path	Contributed Talk C3: Yundari Yundari Kernel Weighted Spatial Matrix in Generalized STAR Model	Contributed Talk D9: Pichaya Voottipruex Modelling the Effect of Toxicant on Bivalve Population
17:30-17:50	Contributed Talk A10: Suranon Yensiri A Numerical Investigation of Radial Basis Function Collocation Methods for Poisson Equation with Nonlinear Source Term and Diffusion Equations with Extended Precision Floating Point Arithmetic	Contributed Talk B4: Desi Rahmadani Some Infinite Classes of Unicyclic Graphs in $R(P_3, P_n)$, for $n \geq 6$	Contributed Talk C4:	Contributed Talk D10: Wannapong Triampo Monte Carlo Modelling of Waste Water Treatment by Algae
18:30-21:30	Welcome Dinner : Nateethong			

Dec 18 2016	Room A : Phanurungsi A			
9:00-9:40	Plenary Session III: Prof. Barry Nussbaum President-Elect, ASA, USA It's Not What We Said, It's Not What They Heard, It's What They Said They Heard			
	Room A : Phanurungsi A	Room B : Phanurungsi C	Room C : Bongkotrat A	Room D : Busabongkot A
9:40-10:10	Invited Speaker A3: Bernd Wegner Mathematical Modelling of a Robust Claim Interpretation and Claim Construction for an ETCL, - Advanced Steps of a "Mathematical Theory of Innovation"	Invited Speaker B7: Dinh Van Huynh The Structure of Weakly V-Rings	Invited Speaker C7: Nabendu Pal Analysis of Non-negative Observations Subject to Two Factors Using Gamma Models	Contributed Talk D11: Acilina Caneco Chaotic Synchronization of von Bertalanffy's Systems
10:10-10:30	Contributed Talk A10: Thaned Rojsiraphisal Asymptotic Stability of Neutral-Type Neural Networks	Contributed Talk B5: Hussain Al-Qassem Sharp Estimates of Oscillatory Singular Integrals with Rough Kernels	Contributed Talk C5: Rapin Sunthornwat Numerical Integral Equation Method of Average Run Length on EWMA Control Chart for Long-memory Process with ARFIMA Model	Contributed Talk D12: Sandra M. Aleixo A Relationship Between Synchronization and Allee Effect in von Bertalanffy's Models
10:30-10:50	Coffee Break			Contributed Talk D13: Patarawadee Prasertsang Novel Delay-dependent Exponential Stabilization Criteria of Nonlinear System with Mixed Time-varying Delay via Intermittent Hybrid Feedback Control
	Room A : Phanurungsi A			Room D : Busabongkot A
10:50-11:20	Invited Speaker A4: Rozaini Roslan Effect of Magnetic Field on Mixed Convection Flow in a Rectangular Cavity Filled with Porous Medium	Invited Speaker B8: Le Duc Thoang Some Results on Artinian Serial Rings	Invited Speaker C8: Nader Tajvidi On Estimation and Prediction for Bivariate Extreme Value Distributions	Contributed Talk D14: Prem Junsawang Guaranteed Cost Control of Exponential Synchronization of Delayed Complex Dynamical Networks with Hybrid Uncertainties Asymmetric Coupling Delay
11:20-11:40	Contributed Talk A11: Pearanat Chuchard Combined Pressure-Driven Electroosmotic Flow Through an Elliptic Cylindrical Microchannel	Invited Speaker B9: Tran Nam Dung On the Number of Difference-free Subsets of Integers	Contributed Talk C6: Uyen Huynh To Extreme Value Distribution Class and Applications in Hydrological Analysis and Risk Management	Contributed Talk D15: Magfirawaty Piliang The Design of Discrete Time Random Number Generator Based on SHA-256 and One-Dimension Chaotic System as Control Parameters
11:40-12:00	Contributed Talk A12: Mongkol Kaewbumrung Computational Fluid Dynamics of Abrasive Water Jet Design		Contributed Talk C7: Cheki Wangmo Distribution of Average Length of Stay of Tourists in Bhutan Problems	Contributed Talk D16: Svetozara Petrova Solution Techniques for Structural Optimization
12:00-13:00	Lunch : Fangnam Coffee Shop			
	Room A : Phanurungsi A	Room B : Phanurungsi C	Room C : Bongkotrat A	Room D : Busabongkot A
13:00-13:30	Invited Speaker A5: Chontita Rattanakul A Biological Control of the Spread of Cassava Mealybugs in a Cassava Field Using a Mix of Anagyrus Lopezii and Green Lacewings: A Simulation Study	Invited Speaker B10: Truong Cong Quynh On X-continuous Modules	Invited Speaker C9: Alok Goswami An Invariance Result for Exchangeable Sequences-Application to Stock-Price Model	Invited Speaker D3: Hee-Dae Kwon Model Predictive Control of an HBV Model

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Dec 18 2016	Room A : Phanurungsi A	Room B : Phanurungsi C	Room C : Bongkotrat A	Room D : Busabongkot A
13:30-13:50	Contributed Talk A13: Jairaj Promrak A Simulation Study of the Spread of Mealybugs in a Cassava Field: Effect of Increased Global Temperature	Invited Speaker B11: Bui Xuan Hai On Free Subgroups in Division Rings	Contributed Talk C8: Dorji Om Application of Box-Jenkins Models to the Tourist inflow in Bhutan	Contributed Talk D17: Natdanai Boonsri Comparing the Spread of TB in the HIV-Infected Populations
13:50-14:10	Contributed Talk A14: Supassorn Aekthong A Simulation Study of a Biological Control of the Spread of Cassava Mealybugs in a Cassava Field Using Anagyrus Lopezi as a Biological Control Agent		Contributed Talk C9: Kuenga Wangmo Application of Log-linear Models to Cancer Patients: A Case Study of Jigme Dorji Wangchuck National Referral Hospital (JDWRH) in Bhutan	Contributed Talk D18: Rachadawan Darlai Stability and Sensitivity Analysis of a Time-Delay HIV/AIDS Epidemic Model with Treatment
14:10-14:30	Contributed Talk A15: Surattana Sungnul Optimal Time for Sugarcane Harvesting of Sugar Factories in Thailand		Invited Speaker B12: Tran Gia Loc On the Volume and the Number of Lattice Points of Some Semialgebraic Sets	Contributed Talk C10: Kedchuda Phienukrochon Optimal Buffer Size of a Hospital's Queueing Network in Thailand
14:30-14:50	Coffee Break			
	Room A : Phanurungsi A	Room B : Phanurungsi C	Room C : Bongkotrat A	Room D : Busabongkot A
14:50-15:10	Contributed Talk A16: Sathaporn Puengpo Application of Discrete Optimal Control to Feeding of Farm Animals	Contributed Talk B6: Chaiwat Maneesawang An Upper Curve Length Estimate Given Total Curvature and Circumradius	Contributed Talk C11: Sobri Abusini Model Application Queue Manual Method And Capacity Road Indonesia (MKJI) to Increase Capacity Intersection	Contributed Talk D20: Nonthamon Chaikham Optimal Control of Zika Virus Infection by Vector Elimination, Vector-to-Human and Human-to-Vector Contact Reduction
15:10-15:30	Contributed Talk A18: Farida Chamchod Modeling the Spread of Capripoxviruses in Goats and Sheep	Contributed Talk B7:	Contributed Talk C12: Salinee Thumronglaohapun A Heuristic Method for the Location-Routing Problem: Coin Circulation in Thailand	Contributed Talk D21: Chaiwat Wilasang A Mathematical Model of Zika Virus Disease Transmission
15:30-15:50	Contributed Talk A17: Jeerawan Suksamran A Model for Porcine Reproductive and Respiratory Syndrome with Time Dependent Infection Rate: Travelling Wave Solution	Contributed Talk B8: Sarawut Saenkarun Some Applications of G_2	Contributed Talk C13: Worawimuit Pienplairattana Parameters Estimation for One-Factor CIR Term Structure Model Using Kalman Filter: Empirical Evidences from Thailand Bond Market	Contributed Talk D22:
15:50-16:10	Contributed Talk A18: Nattawan Chuchalerm Mathematical Modeling of Porcine Reproductive and Respiratory Syndrome Incorporating Decaying Infectiousness and Periodic Inoculation	Contributed Talk B9: Wen Chean Teh Introduction of Ramsey Orderly Algebras as Localized Versions of Ramsey Algebras	Contributed Talk C14: Worawimuit Pienplairattana Numerical Solutions for Fractional Differential Equations for Lévy Jump Models in Finance: An Application to Pricing of Call and Put Options	Contributed Talk D23: Sittisede Powiang Vaccine Coverage and the Cost Effectiveness of Dengue Vaccine in Thailand
16:10-16:30	Contributed Talk A19: Puttida Matkhao Modeling Porcine Reproductive and Respiratory Syndrome Incorporating Decaying Infectiousness and Delayed Infection Incidences	Contributed Talk B10: Budi Rahadjeng Upper Bounds of the Connected Size Ramsey Number for P_5 and nK_2	Contributed Talk C15: Somphorn Arunsingkarat Option Pricing Under GARCH Models Applied to the ST Index of Thailand	Contributed Talk D24: Edwin Setiawan Vaccination and Fumigation Design by Using Input-Output Linearization Method in Host Vector Model
16:30-16:50	Contributed Talk A20: Kornkanok Bunwong Harvest Induced Evolution in Life-history Traits: Age at First Reproduction	Contributed Talk B11: Anie Lusiani On Size Multipartite Ramsey Numbers for P_3 Versus Star Forests	Contributed Talk C16: Nattiya Chaiyapo A Study of Mathematical Model For Commodities	Contributed Talk D25: Rattana Sangngam A Mathematical Modelling of Gastrointestinal Tract: an Effect of Randomness in Gastric Emptying

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Dec 19 2016	Room A : Phanurungsi A			
9:00-9:40	Plenary Session IV: Prof. Thomas Mathew University of Maryland, Baltimore County, USA Statistical Methods for Cost-Effectiveness Analysis: A Selected Review			
	Room A : Phanurungsi A	Room B : Phanurungsi C	Room C : Bongkotrat A	Room D : Busabongkot A
9:40-10:10	Invited Speaker A6: Yongwimon Lenbury Modelling Calcium Signaling by Cellular Automata Simulation Incorporating Endocrine Regulation and Trafficking in Various Types of Receptors	Invited Speaker B13: Le Anh Vu Classification of all Real Solvable Lie Algebras with Derived Ideal Having Small Dimension or Codimension	Invited Speaker C10: Phan Dan On Semiprime Right Goldie Rings	Invited Speaker D4: Christian Licht Various Asymptotic Models for The Dynamics of Two Linearly Elastic Bodies Connected by A Very Thin Viscoelastic Layer
10:10-10:30	Contributed Talk A21: Wanwarat Anlamrert Modeling Fibrous Cap Formation in Atherosclerotic Plaque Development: Stability and Oscillatory Behavior	Contributed Talk B13: Majid Tavassoli Kajani On the shifted fourth kind Chebyshev Collocation Method for the Solution of Variable-order Linear Cable Equations	Contributed Talk C17: Quyen Tran H Undergraduate Students' Perceptions about Pursuing Master's Education and Enrolling into a Master's Program: A Case Study from the University of Economics, Ho Chi Minh City, Vietnam	Contributed Talk D26: Waraporn Chatanin Conditional Linearization of the Quintic Nonlinear Beam Equation
10:30-10:50	Contributed Talk A22: Jutarat Kongson Analysis of a Three-compartment Model for the Signal Transduction Pathway Under Signal Amplification Delay	Contributed Talk B14: Nattapong Bosuwan Determining System Poles Using Row Sequences of Simultaneous Padé-Faber Approximants	Contributed Talk C18: Chompoo Lunsak Exploring Teachers' Mathematical Knowledge for Teaching about Fractions in the Context of Lesson Study and Open Approach	Contributed Talk D27: Simul Acherjee Enhancement of Heat Transfer in a U-loop Circular Tube with Axial Perforated Inserts
10:50-11:10	Coffee Break			
11:10-11:30	Contributed Talk A23: Inthira Chaiya An Impulsive Mathematical Model of Bone Formation and Resorption: Effects of Prolactin and Parathyroid Hormone Supplement	Contributed Talk B15: Witichai Pongprasert Application of Integral Equations in Numerical Solution of Initial Value Problem Kernels	Contributed Talk C19: Solun Say An Exploring of Sixth-Grade Students' Mathematical Proficiency of Fractions	Contributed Talk D28: Md. Moniruzzaman Bhuyan Simulation of Heat Transfer in a Tubular Pipe Using Different Length Twisted Tape Inserts
11:30-11:50	Contributed Talk A24: Inthira Chaiya Modelling of Bone Remodeling Process: Effects of Parathyroid Hormone, Calcitonin and Impulsive Estrogen Supplement	Contributed Talk B16: Worawut Saetang Numerical Solution of Integral Equations of The Second Kind with Monomial	Contributed Talk C20: Michael Little Crow Indigenous Mathematics Methods for Learning Success	Contributed Talk D29: Sayan Kaennakham A Numerical Investigation on Adaptive Shape Parameter Schemes in a Meshfree Method Applied to Convection-Diffusion Problems
11:50-12:10	Contributed Talk A25: Sasikarn Sakulrang A Fractional Differential Equation Model for Continuous Glucose Monitoring Data	Contributed Talk B17: Maitree Podisuk Orthogonal Polynomials with as Their Weight Function		Contributed Talk 30: Umaporn Nuntaplook Shape Resonances in Radially Inhomogeneous Spheres with Negative Dielectric Functions
12:10-12:30	Closing Ceremony Group Photo Session	Contributed Talk B18: Mehrdad Dadkhah Tirani Approximate Solution of Variable-order Linear Cable Equations with Shifted Third Kind Chebyshev Polynomials		Contributed Talk D31: Kaboon Thongtha An Analytical Solution of a Hydrodynamic Model in an Opened Uniform Reservoir
12:30-14:00	Lunch : Fangnam Coffee Shop			