

## CONFERENCE PROGRAM

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

<b>Dec 17, 2011</b>			
8:00-9:00	Registration		
9:00-9:40	<p>Opening Ceremony</p> <p>Welcome Speech: Dean of Science, Prof. Skorn Mongkolsuk</p>		
9:40-10:30	<p>Keynote Session</p> <p>Prof. Efim Zelmanov</p> <p><i>Abstract Infinite Groups</i></p>		
10:30-10:50	Coffee Break		
	Room A	Room B	Room C
	Chair: Yongwimon Lenbury	Chair: Nawarat Ananchuen	Chair: Montip Tiensuwan
10:50-11:30	<p>Plenary Speaker: Charles Micchelli</p> <p><i>Convex Regularization for Machine Learning and Image Analysis</i></p>	<p>Plenary Speaker: Kazimierz Goebel</p> <p><i>Shapes and Sizes of Fixed Point Sets</i></p>	<p>Plenary Speaker: Mohammad Ahsanullah</p> <p><i>Record Values</i></p>
11:30-12:00	<p>Invited Speaker: Dinh Que Tran</p> <p><i>A Mathematical Model for Semantic Similarity Measures</i></p>	<p>Invited Speaker: Kar Ping Shum</p> <p><i>On Constructions of Semigroups</i></p>	<p>Invited Speaker: Bikas K. Sinha</p> <p><i>Understanding Species' Abundance</i></p>
12:00-12:20	<p>Contributed Paper: Thi Thuy Van Duong</p> <p><i>Modeling Mobility in Wireless Network with Spatiotemporal State</i></p>	<p>Contributed Paper: Van Cuong Dang</p> <p><i>Binomial Fields of Spacelike Surfaces in Lorent-Minkowski Space <math>R_1^4</math></i></p>	<p>Contributed Speaker: Rungsarit Intaramo</p> <p><i>Coverage Probability for Fuzzy Extreme Value Theory Control Charts Using <math>\alpha - cuts</math></i></p>
12:20-13:30	Lunch		
	Chair: Benchawan Wiwattanapaphee	Chair: Wayne Lawton	Chair: Bikas K. Sinha
13:30-14:00	<p>Invited Speaker: Hideaki Kaneko</p> <p><i>A Wavelet Collocation Method for the Nonlinear Hammerstein Equations</i></p>	<p>Invited Speaker: Tu Quoc Thang Le</p> <p><i>Homology Growth of Finite Covering</i></p>	<p>Invited Speaker: Timothy E. O'Brien</p> <p><i>Estimation and Experimental Design Strategies for Multicategory Regression Settings</i></p>

14:00-14:20	Contributed Paper: Ujjwal Kumar Deb <i>Mathematical Model of Microalgae Flow in the HLTP</i>	Contributed Paper: Le Nam Tran <i>Constant Curvature Curves in a Plane with Linear Densities <math>e^x</math></i>	Invited Speaker: Tapio Nummi <i>Testing Linearity in Semiparametric Regression Models</i>
14:20-14:40	Contributed Paper: Nathnarong Khajohnsakumeth <i>Flow of a Modified Second-grade Fluid with Boundary Slip Condition</i>	Invited Speaker: Jean-Marc Bardet <i>Multiple Breaks Detection in General Causal Time Series Using Penalized Quasi-likelihood</i>	Invited Speaker: Dankmar Boehning <i>Modeling a Count Distribution by Means of Regression</i>
14:40-15:00	Contributed Paper: Elvin Moore <i>Maximum Traffic Flow with Flow-Dependent Road Capacities</i>	Invited Paper: Arihant Jain <i>Semi-deterministic Virtual Finite Automaton (SDVFA) of order <math>(s,t)</math></i>	
15:00-15:20	Contributed Paper: Tran Phuong Ha <i>On Truncated Second Main Theorem with Moving Targets</i>		Contributed Paper: Kuntoro Kuntoro <i>Poisson Regression for Predicting The Number of Visits to Health Services Places Given Predictors Concerning Health Services System: An Evaluation Study of Social Security Net-Health Sector in East Java Province, Indonesia</i>
15:20-15:40	Coffee Break		
	Chair: Christian Licht	Chair: Le Tu Quoc Thang	Chair: Timothy E. O'Brien
15:40-16:20	Invited Speaker: Dongwoo Sheen <i>Recent Developments in the Theory and Applications of Nonconforming Finite Element Methods*</i>	Invited Speaker: Bui Xuan Hai <i>On Maximal Subgroups of a Subnormal Subgroup in Division Rings</i>	Invited Speaker: Sujit Ghosh <i>Smooth Density Estimation under Moment Constraint</i>
16:20-16:40	Contributed Paper: Mardiningsih <i>Reduced Gradient Approach for Solving System of Nonlinear Equations</i>	Invited Paper: Mridul Kanti Sen <i>Some Aspects of Semiring</i>	Contributed Speaker: Wimonmas Bamrungsetthapong <i>Fuzzy Reliability Estimation Using Bayesian Approach for Non-Repairable Multi-State System</i>
16:40-17:00	Contributed Paper: Nikolay Moshkin <i>Application of High-order Finite-difference Upwind Schemes to Numerical Modeling of Mixed Region Collapse in a Stratified Fluid</i>	Invited Speaker: Tapan Kumar Dutta <i>Singular Ideal and Singular Radical of Semirings</i>	Contributed Paper: Pawan Kumar <i>Estimation Of Ratio-Type Estimator With Sub-Sampling The Non-Respondents</i>
17:00-17:20	Contributed Paper: Deva Kanta Phukan <i>Perturbation and Numerical Solution of Axi-symmetric Flow over a Heated Stretching Sheet of a Newtonian Conducting Fluid in the Presence of Magnetic Field</i>		Contributed Paper: Sumit Koul <i>Estimation of the Mean Survival Time of the Two-parameter Exponential Distribution: A Sequential Approach</i>
17:20-17:40	Contributed Paper: Ngoc Hai Vu <i>The Finite-Difference Time-Domain Method Using for Material Computation</i>	Contributed Paper: Bibhas Chandra Saha <i>Radicals in Matrix Semiring <math>\begin{pmatrix} R &amp; \Gamma \\ s &amp; L \end{pmatrix}</math></i>	Contributed Paper: Waliporn Tapang <i>Construction of Quality Control Chart Based on U-Statistics in Ranked Set Sampling</i>
17:40-18:00	Contributed Paper: Sunisa Saiuparad <i>Accuracy and Efficiency of Measurements in a Northeast Monsoon Prediction by a Shallow Water</i>	Contributed Paper: Sukhendu Kar <i>Power Ternary Semirings</i>	Contributed Paper: Wiyada Kumam <i>The Medical Service Value Model for Patients without Surgery of Informal Workers in Thailand</i>

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Dec 18, 2011			
	Room A	Room B	Room C
	Chair: Hideaki Kaneko	Chair: Nguyen Van Sanh	Chair: Dankmar Boehning
9:00-9:40	Plenary Speaker: Yong Hong Wu <i>On Recent Development of Mathematical Models for Simulation of Traffic Flows</i>	Plenary Speaker: Tu Cuong Nguyen <i>On the Limit Closure of a Sequence of Elements in Local Rings</i>	Contributed Paper: Rawee Suwandechochai <i>Integrated Inventory-transportation Problems with Common Carrier Freight Charges</i> Contributed Paper: Porawee Chotpitayasunon <i>The Economic Order Quantity for Imperfect Items under One-time-only and Backordered Shortages</i>
9:40-10:10	Invited Speaker: Karabi Nandy <i>Optimal Designs for Non-Monotone Dose-Response Models</i>	Invited Paper: Sujit Kumar Sardar <i>Role of Operator Semigroups in the Study of Fuzzy Congruences in <math>\Gamma</math>-semirings</i>	Invited Speaker: Martine Van Wouwe <i>Detection and Correction of Outliers in the Bivariate Chain-ladder Method</i>
10:10-10:30	Contributed Paper: Pairote Satiracoo <i>Molecular Hydrogen Encapsulation in Goldberg Type I Fullerenes</i>	Contributed Paper: Sarbani Goswami <i>Fuzzy Prime Radicals and Fuzzy Primary Ideals of <math>\Gamma</math>-semirings</i>	Contributed Paper: Nattakorn Phewchean <i>A Study of Black-Scholes-Merton Framework taking into account Stochastic Earning Yield</i>
10:30-10:50	Coffee Break		
	Chair: Benchawan Wiwattanapatapee	Chair: Anh Vu Le	Chair: Tapio Nummi
10:50-11:20	Invited Speaker: Christian Licht <i>Dynamics of Assemblies of Linearly Elastic Bodies</i>	Invited Speaker: Nanqing Ding <i>On Gorenstein Modules</i>	Invited Speaker: Dilip Nath <i>Models of Loss Reserving Based on Run-off Triangle and Its Applications in Automobile Insurance</i>
11:20-11:40	Contributed Paper: Nuttawat Sontichai <i>A Simplified 2-Dimensional Model for Some Elastic Masonries</i>	Contributed Paper: Yahya Talebi <i>On SSP-Lifting Modules</i>	Contributed Paper: Kawee Numpacharoen <i>A New Algorithm for Computing Implied Volatility</i>
11:40-12:00	Contributed Paper: Leefeng Koo <i>Numerical Solution for Elliptical Crack Subject to Shear Loading</i>	Contributed Paper: Hossein Mousa Jafarabadi <i>Completely Simple Semi Hypergroups</i>	Contributed Paper: Nhat Tinh Phan <i>On Second Order Optimality Conditions for Nonsmooth Problems with Constraints</i>
12:00-12:20	Contributed Paper: A. Benerji Babu <i>Nonlinear Rotating Convection in a Sparsely Packed Porous Medium</i>	Contributed Paper: Jayasri Sircar <i>On Right Strongly Prime Ternary Semirings</i>	Contributed Paper: Hafida Guerbyenne <i>Locally Asymptotically Most Powerful Parametric Test for Detecting the Presence of Randomness in the Coefficient of an <math>p</math>-AR(<math>l</math>) Model</i>

12:20-13:30	Lunch		
	Chair: Chontita Rattanakul	Chair: Nanqing Ding	Chair: Dilip Nath
13:30-14:00	Invited Speaker: Hien Tran <i>On Sensitivity and Identifiability of Nonlinear ODE Models and Applications in HIV Dynamics</i>	Invited Speaker: Anh Vu Le <i>The Structure of the Connes' <math>C^*</math>-Algebra Associated to a Subclass of MD5-Foliations</i>	Invited Speaker: Rajesh Ranjan Nandy <i>Estimating the Intrinsic Dimensionality of Multivariate Data in the Presence of Strong Correlated Noise</i>
14:00-14:20	Contributed Paper: Rinrada Thamchai <i>Stability Analysis and Optimal Treatment for the SPAR Drinking Epidemic Model</i>	Invited Speaker: A. R. Rajan <i>On Semigroups and Normal Categories</i>	Contributed Paper: Shabnam M Sarjami <i>An Integrated Mathematical Optimisation Framework for Suppliers Ranking and Demand Allocation</i>
14:20-14:40	Contributed Paper: Sarawut Suwannaut <i>Analysis of Effective Neurospora Process Model</i>	Invited Speaker: Nikolai Vavilov <i>Yoga of Commutators</i>	Contributed Paper: Vivi Asba <i>Local Seafood Production Planning Under Uncertainty</i>
14:40-15:00	Contributed Paper: Schehrzad Selmane <i>The Impact of Isolation of Active Tuberculosis Individuals on the Number of Latently Infected Individuals</i>		Contributed Paper: Desi Vinsensia <i>Feasible Neighbourhood Search Approach for Solving Mixed-integer Non Linear Programming Problems</i>
15:00-15:20	Coffee Break		
	Chair: Elvin Moore	Chair: Nikolai Vavilov	Chair: Rajesh Ranjan Nandy
15:20-15:40	Contributed Paper: Sineenart Srimongkol <i>A Mathematical Model of a Planar Solid Oxide Fuel Cell</i>	Invited Speaker: Wayne Lawton <i>Bose and Einstein Meet Newton</i>	Contributed Paper: Fajrul H. Poetra <i>Integer Programming Model for Operational Aircraft Maintenance Routing Problem with Side Constraints</i>
15:40-16:00	Contributed Paper: Phien Phan <i>Some Quantitative Results on Lipschitz Inverse and Implicit Function Theorems</i>	Contributed Paper: Duc Tai Trinh <i><math>\mathcal{PS}</math>-symmetry and the Spectrum of a Class of <math>\mathcal{PS}</math>-symmetric Hamiltonians</i>	Contributed Paper: Ronal G. Purba <i>Integer Programming Model in Supply Chain Management with Sourcing Decisions</i>
16:00-16:20	Contributed Paper: Van Minh Man Nguyen <i>Algebraic Methods for Construction of Mixed Orthogonal Arrays</i>		Contributed Paper: Nur Aidya Hanum Aizam <i>Mixed Integer Linear Programming Models for University Timetabling</i>
16:20-16:40	Contributed Paper: Amir Sadeghi <i>A Stable Coupled Newton's Iteration to Approximating Matrix Inverse <math>p^{\text{th}}</math> Root</i>	<i>MATLAB and Its High Performance Computing Solutions for Mathematics</i> by TechSource (Teo Chun Chen)	Contributed Paper: Elly Rosmaini <i>A Mixed-Integer Nonlinear Optimization Model for a Water Network Problem</i>
18:30 onward	Welcome Dinner		

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

Dec 19, 2011	Room A	Room B	Room C
	Chair: Maitree Inprasitha	Chair: Wayne Lawton	Chair: Mohammad Ahsanullah
9:00-9:40	Plenary Speaker: Masami Isoda <i>Do You Teach Meaningful Mathematics for Teacher Preparation? Thai Translation of Japanese Textbooks as for the Bases for Pedagogical Content Knowledge</i>	Invited Speaker: Sambasiva Rao Mukkamala <i><math>\alpha</math> – ideals in Almost Distributive Lattices</i>	Invited Speaker: Nabendu Pal <i>Inferences on a Skew-Normal Distribution</i>
9:40-10:00	Contributed Paper: Suwarnnee Plianram <i>Japanese Mathematics Textbook: Relation between Structure of Mathematics Textbook and Pedagogical Styles in Classroom</i>	Invited Speaker: Hourong Qin <i>An Expression for Primes and Its Application to <math>K_2\mathbb{Q}</math></i>	<i>Maple in Mathematics Teaching and Learning, as well as Interactive Online Learning by SimNet</i>
10:00-10:20	Coffee Break		
	Chair: Elvin Moore	Chair: Chaiwat Maneesawang	Chair: Montip Tiensuwan
10:20-10:40	Contributed Paper: Anake Sudejamnong <i>Teacher's Mathematical Knowledge for Teaching in Elementary School</i>	Invited Speaker: Le Tuan Hoa <i>Non-linear Behaviour of Castelnuovo-Mumford Regularity</i>	Contributed Paper: Choon Peng Tan <i>Universal Portfolios Generated by the Mahalanobis Squared Divergence</i>
10:40-11:00	Contributed Paper: Kasem Premprayoon <i>Development of Student's Mathematical Language by Open Approach</i>	Invited Speaker: Horst Martini <i>Recent Results on the Geometric Dilation Problem in Normed Planes</i>	Contributed Paper: Choon Peng Tan <i>On the Asymptotic Behaviour of the Ratio of Capitals of the Dirichlet Universal Portfolios</i>
11:00-11:20	Contributed Paper: Sampan Thinwiangthong <i>Small-group Mathematical Communication in Mathematics Classroom Innovated by Lesson Study and Open Approach</i>		Contributed Paper: Ratchaneekorn Thoppradid <i>On Comparison of Vegetables Nutrition by Multiple Criteria Decision Making</i>
11:20-11:40	Contributed Paper: Yanin Kongthip <i>Analyzing Mathematical Communication of Students' Gestures in Lesson Study and Open Approach</i>	Contributed Paper: : Gia Loc Tran <i>The Generalized Gamma Functions</i>	Contributed Paper: Hindra <i>A Combined Approach for Solving Quadratic Assignment Problems</i>
11:40-12:00	Contributed Paper: Aujiit Pattanajak <i>Students' Mathematical Communication in the Process of Teacher Professional Development through Lesson Study</i>	Contributed Paper: Chan Pruksapha <i>D' Alembert's Functional Equation on Compact Homogeneous Spaces</i>	Contributed Paper: Wattanavadee Sriwattanapongse <i>Building a Data Warehouse for Research</i>
12:00-12:20	Contributed Paper: Nisara Suthisung <i>Students' Abstraction Process for Concept Formation in the Context Using Open Approach and Lesson Study</i>	Contributed Paper: Shayathorn Wanasawat <i>On Binary Quadratic Diophantine Equations with Certain Class of Coefficients</i>	Contributed Paper: Chiranya Surawut <i>Kriging Interpolation of Climate Data</i>
12:20-13:30	Lunch		

	Chair: Boriboon Navaprteep	Chair: Wayne Lawton	Chair: Suwon Tangmanee
13:30-13:50	Contributed Paper: Ariya Suriyon <i>The Development of Students' Metacognitive Strategies during Problem Solving in Mathematics Classroom using Open Approach</i>	Contributed Paper: Purshottam Agrawal <i>On the Rate of Convergence by Iterates of Beta Operators</i>	Invited Speaker: Bernd Wegner <i>Authors Profiles and Ranking Services at Mathematical Reference Databases</i>
14:10-14:30	Contributed Paper: Katanyuta Bangtho <i>The Teacher's Roles in Planning the Lessons: Focusing on Promoting Analytical Thinking</i>	Contributed Paper: Zayid Abdulhadi <i>Integral Means and Arc Length Inequalities for Typically Real Logharmonic Mappings</i>	
14:30-14:50	Contributed Paper: Kawissara Sansanoh <i>Gifted Students' Mathematical Creativity</i>	Contributed Paper: Aram Tangboonduangjit <i>Divisibility Properties of Some Subsequences of Fibonacci Numbers</i>	
14:50-15:10	Coffee Break		
	Chair: Suwon Tangmanee	Chair: Wayne Lawton	Chair: Elvin Moore
15:10-15:30	Contributed Paper: Kittisak Jai-on <i>Developing Lesson Plans Emphasizing the Use of Technology and Open-ended Problems</i>	Contributed Paper: Athassawat Kammanee <i>Broyden Method for Inverse Partially Known Sturm-Liouville Potentials</i>	Invited Speaker: Edy Tri Baskoro <i>The Locating-chromatic Number for a Corona Product of Graphs</i>
15:30-15:50	Contributed Paper: Benjawan Chaiprad <i>Mathematical Representations of Fractions in Open Approach Classroom</i>	Contributed Paper: Chatchawan Panraksa <i>Arithmetic Dynamics and Dynamical Units</i>	
15:50-16:10	Contributed Paper: Wipaporn Suttiamporn <i>Developing Students' Creativity through Connecting Previously Learned Knowledge and Ideas</i>	Contributed Paper: Mongkolseriy Lin <i>On the Composition of the Distributions <math>\delta^{(s)}</math> and <math>(e^x - 1)_+</math></i>	Contributed Paper: Astri Syafrianty <i>Vertex Exponents of a Class of Two-colored Digraphs with Even Number of Vertices</i>
16:10-16:30	Contributed Paper: Michael Little Crow <i>An Experiential Math Curriculum: Basic Robotics for Middle and High School</i>	Contributed Paper: Shea-Ming Oon <i>Matrices with Determinants Equal to Some Arithmetical Functions</i>	Contributed Paper: Rolando Paluga <i>On the k-Covering Number of the Join and Corona of Graphs</i>
16:30-16:50	Contributed Paper: Sirilak Suwanwongsri <i>Impact of Royal Golden Jubilee Ph.D. Program on Graduate Students</i>	Contributed Paper: Karunesh Singh <i>An Inverse Theorem for the Iterates of Modified Bernstein Type Polynomials in <math>L_p</math> Spaces</i>	Contributed Paper: Tinnaluk Rutjanisarakul <i>Endomorphism Monoids and Groups of Wheel Graphs</i>
16:50-17:10	Contributed Paper: Sudatip Hancherngchai <i>Mathematics Teacher Education Program in Thailand</i>		Contributed Paper: Wajananu Kulclung <i>A Characterization of 3-(<math>\gamma, 2</math>)-Critical Graphs Which are not 3-<math>\gamma</math>-Critical of Small Order</i>
17:10-17:30	Invited Speaker: Pauline Mangulabnan <i>Assessing Alternative Conceptions in Translating Word Problems to Algebraic Equations</i>		Contributed Paper: Esamel Paluga <i>On Non-split and Inverse Non-split Domination Numbers of Graphs Resulting from Some Binary Operations</i>