EASIAM 2012: DAY 1 (June 25, 2012)

Time						
9:00-9:20	*Opening*					
	Keynote Talk					
9:30-10:30	***Linda Petzold*** (Department of Mechanical Engineering, University of California Santa Barbara, USA), Spatial Stochastic Amplification in Cell Polarization					
10:30-10:40	*Coffee*					
	Invited Talks					
10:40-11:20	***Weiqing Ren*** (Department of Mathematics, National University of Singapore and IHPC, Singapore), The string method for the study of rare events					
11:20-12:00	***Hitoshi Arai*** (Graduate School of Mathematical Sciences, The University of Tokyo, Japan), Mathematical models of visual information processing and applications to visual illusions					
12:00-13:30	*Lunch*					
	Student Paper Prize Presentations					
13:30-14:00	***Xuanchun Dong*** (Department of Mathematics, National University of Singapore, Singapore), Analysis and comparison of numerical methods for the Klein-Gordon equation in the nonrelativistic limit regime					
14:00-14:30	***Zhenning Cai*** (School of Mathematical Sciences, Peking University, China), Numerical Regularized Moment Method of Arbitrary Order for Boltzmann-BGK Equation					
14:30-15:00	***Seonjeong Lee*** (Department of Mathematical Sciences, Seoul National University, Republic of Korea), An Optimal Estimation of Piecewise Constant Paramter Functions in ODEs					
15:00-15:30	*Coffee*					
		Parallel Session 1: Applied Partial Differential Equations	*Parallel Session 2: Numerical Analysis*	*Parallel Session 3: Applied Numerical Linear Algebra*	*Parallel Session 4: Mathematical Analysis of Engineering Problems*	*Parallel Session 5: Fluid Mechanics*
15:30-15:50	*EASIAM Business Meeting @R440*	***Zhonghua Qiao*** (Department of Applied Mathematics, The Hong Kong Polytechnic University, Hong Kong), Energy stability analysis and adaptive time-stepping strategy for nonlinear diffusion equations	***Suh-Yuh Yang*** (Department of Mathematics, National Central University, Taiwan), A new stabilized finite element method for the reaction-convection-diffusion equations	***Akira Imakura*** (Center for Computational Sciences, University of Tsukuba, Japan), On convergence behavior of the GMRES(m) method with a hybrid restart technique	***Teng-Yao Kuo*** (Ph. D. Program in Mechanical and Aeronautical Engineering, Feng Chia University, Taiwan), The ground-state computation of hetero-structure quantum dots in arbitrary shape	***Xiaolin Li*** (Department of Applied Mathematics and Statistics, SUNY at Stony Brook, USA), Front Tracking on Fabric Modeling and Application to Parachute Simulation
15:50-16:10		***Wen-Ching Lien*** (Department of Mathematics, National Cheng Kung University, Taiwan), Nonlinear Stability of Spherical Self-Similar Flows to the Compressible Euler Equations	***Zanariah Abdul Majid*** (Department of Mathematics, Universiti Putra Malaysia, Malaysia), Five step block method for solving general second order ODEs directly	***Lei Du*** (Faculty of Engineering, Information and Systems, University of Tsukuba, CREST/JST, Japan), IDR(s) for linear systems with multiple shifts and multiple right-hand sides	***Ling-Huang Yu*** (Department of Mathematics, National Chung Cheng University, Taiwan), Vibration of a Standing Plate with Internal Crack	***Alex Chang*** (Department of Applied Mathematics, National Pingtung University, Taiwan), A Coupled Transport and Phase Equilibrium Flow On Heterogeneous Pore-Scale Network Media
16:10-16:30		***Jilu Wang*** (Department of Mathematics, City University of Hong Kong, Hong Kong), Modelling and analysis for heat and moisture transport in fibrous porous media with nonlocal radiation sources	***Hoang Linh Vu*** (Faculty of Mathematics, Mechanics, and Informatics, VNU Hanoi University of Science, Vietnam), Efficient integration of matrix-valued non-stiff differential-algebraic equations by half-explicit methods	***Yusuke Morikura*** (Graduate School of Fundamental Science and Engineering, Waseda University, Japan), Verification methods for linear systems using ufp estimation with rounding-to-nearest	***Sita Charkrit*** (Department of Mathematics, Faculty of Sciences, Maejo University, Chiangmai, Thailand), An alternative method for solving nonlinear differential equations via integral equations.	***Rhodri Nelson*** (Department of Mathematics, Hokkaido University, Japan), Applications Of Vortex Dynamics In Multiply Connected Domains
16:30-16:50		***Ekeoma Rowland Ijioma*** (Meiji Institute of Advanced Mathematical Science, Japan), Pattern Formation in Reverse Smoldering Combustion: A Homogenization Approach	***Nary Kim*** (Mathematics, Ajou University, Republic of Korea), Numerical Solutions of Stochastic Optimal Control problems using Stochastic Collocation method	***Katsuhisa Ozaki*** (Department of Mathematical Sciences, Shibaura Institute of Technology, Japan), Fast Interval Matrix Multiplication without Directed Rounding	***Natalia Rozhenko*** (Department of Mathematics, University of Brunei Darussalam, Brunei), Passive Impedance Systems And Stochastic Realizations	***Marcel Ilie*** (Mechanical and Aerospace Engineering, University of Central Florida, USA), Numerical modeling of turbulent combustion; computational approaches using LES and URANS
16:50-17:10		***WeiFan Hu*** (Department of Applied Mathematics, National Chiao-Tung University, Taiwan), A new unconditionally stable discretization of immersed boundary method and applications		***Hanz Martin Cheng*** (Mathematics Department, Ateneo de Manila University, Philippines), Generation of Complex Matrices Belonging to Matrix Groups with Controlled Condition Number		
17:10-17:30						
18:00-20:00	*Banquet @Su Hong Restaurant/ Student Paper Prize Ceremony*					

EASIAM 2012: DAY 2 (June 26, 2012)

Time						
	Invited Talks					
9:30-10:10	***Victor Didenko*** (Faculty of Science, University of Brunei Darussalam), Algebraic approach to approximation methods for operator equations					
10:10-10:20	*Coffee*					
10:20-11:00	***Wei-Cheng Wang*** (Department of Mathematics, National Tsing Hua University, Taiwan), A kernel-free boundary integral method for the Stokes system					
11:00-11:10	*Coffee*					
11:10-11:50	***Leevan Ling*** (Department of Mathematics, Hong Kong Baptist University, Hong Kong), Meshless strong form collocation: Theories & Applications					
12:00-13:20	*Lunch*					
		Parallel Session 6: Applied Partial Differential Equations	*Parallel Session 7: Numerical Analysis*	*Parallel Session 8: Applied Numerical Linear Algebra*	*Parallel Session 9: Mathematical Biology and/or Medicine*	*Parallel Session 10: Fluid Mechanics*
13:20-13:40		***Hisashi Okamoto*** (Research Institute for Mathematical Sciences, Kyoto University, Japan), A pattern formation in 2D Navier-Stokes equations at very high Reynolds numbers	***Xiao-Qing Jin*** (Department of Mathematics, University of Macau, Macau), A sinc collocation method for Love's integral equation with a very small parameter	***Mao-Ting Chien*** (Department of Mathematics, Soochow University, Taiwan), Determinantal representation of polynomials	***Yasuhisa Saito*** (Department of Mathematics, Shimane University, Japan), Limit cycles in predator-prey interactions with prey migration	***Leo Hari Wiryanto*** (Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Indonesia), Local flow near a separation of solid boundary
13:40-14:00		***Luyu Sun*** (Department of Mathematics, Hong Kong Baptist University, Hong Kong), Unconditionally Energy Stable Scheme for Binary Fluid-Surfactant Dynamics Model	***Takehiko Kinoshita*** (Research Institute for Mathematical Sciences, Kyoto University, Japan), Some remarks on the optimal L^2 error estimates for the finite element method with nonconvex polygonal domain	***Hai-wei Sun*** (Department of Mathematics, University of Macau, Macau), Fast Algorithms for Toeplitz Matrix Exponential and Applications	***Rafael Saldana*** (Mathematics Department, Ateneo de Manila University, Philippines), Mathematical Aspects of Foraging Behavior Among Long-Tailed Shrikes (Lanius schach) and Brown Shrikes (Lanius cristatus)	***Takahito Kashiwabara*** (Graduate School of Mathematical Sciences, The University of Tokyo, Japan), On a strong solution of the Navier-Stokes equations under slip or leak boundary conditions of friction type
14:00-14:20		***Kuan-Yu Chen*** (Department of Applied Mathematics, National Chiao-Tung University, Taiwan), A conservative scheme for solving coupled surface-bulk convection-diffusion equations with an application to interfacial flows with soluble surfactant	***Naoya Yamanaka*** (Research Institute for Science and Engineering, Waseda University, Japan), Accurate and Rigorous Logarithm Algorithm in Round to Nearest	***Yusaku Yamamoto*** (Department of Computational Science, Kobe University, Japan), A generalization of the dqds algorithm for totally nonnegative matrices	***Sugiyarto Surono*** (Ahmad Dahlan University Yogyakarta, Indonesia), Mathematical Model Six Classes Of Disease's Spreading (Epidemics) with Variable Human Population and Disease-Carrier and its Variations	***Ching-Hao Yu*** (Department of Engineering Science and Ocean Engineering, National Taiwan University, Taiwan), Development of a scheme that preserves the dispersion relation equation for solving the pure advection equation and Navier-Stokes equations with free surface
14:20-14:40		***Xia Ji*** (Institute of Computational Mathematics, Chinese Academy of Sciences, China), High-order Accurate Runge-Kutta Discontinuous Galerkin Methods for a Two-dimensional Nonlinear Dirac Model	***Xuefeng Liu*** (Research Institute for Science and Engineering, Waseda University, Japan), On verified eigenvalue evaluation of self-ajoint elliptic differential operator	***Siu-Long Lei*** (Department of Math, University of Macau, Macau), Circulant and skew-circulant splitting iteration method for solving constant coefficient fractional diffusion equations	***Hidenori Yasuda*** (Department of mathematics, Josai University, Japan), Simulation of fulminant ARDS and lymphopenia of H5N1	***Mei-Feng Liu*** (Department of Applied Mathematics, I-Shou university, Taiwan), Mathematical modeling for the single-walled carbon nanotubes (SWCNTs) based on thermo-magneto-electro-elastic theory with nonlocal effect
14:40-15:00		***Moh. Ivan Azis*** (Department of Mathematics, Faculty of Mathematics and Natural Sciences, Hasanuddin University, Makassar - Indonesia), A Boundary Element Method for The Numerical Solution to Elasticity Problems of Isotropic Functionally Graded Materials		***Ching-Sung Liu*** (Department of Mathematics, National Tsing Hua University, Taiwan), An inexact inverse iteration for computing the smallest eigenvalue of an irreducible M-matrix	***Maxim Solovchuk*** (Taida Institute of Mathematical Science, National Taiwan University, Taiwan), A computational study of nonlinear Westervelt equation and its application to focused ultrasound therapy	
15:00-15:30	*Coffee*					
		Parallel Session 11: Applied Partial Differential Equations	*Parallel Session 12: Numerical Analysis*	*Parallel Session 13: Applied Numerical Linear Algebra*	*Parallel Session 14: Specific Topics*	*Parallel Session 15: Operation Research and Optimization*
15:30-15:50		***Naoki Wada*** (Graduate School of Informatics, Kyoto University, Japan), An approach to inverse problem on graphs through representation theory	***Seak-Weng Vong*** (Department of Mathematics, University of Macau, Macau), Discrete-time collocation methods for solving Schrödinger equations with wave operator	***Yin-Tzer Shih*** (Department of Applied Mathematics, National Chung Hsing University, Taiwan), Adaptive Parameterized Block-Based Singular Value Decomposition and for Image De-noising and Compression	***Hendra Gunawan*** (Department of Mathematics, Bandung Institute of Technology, Indonesia), On the boundedness of fractional integral operators	***Wai-Ki Ching*** (Department of Mathematics, The University of Hong Kong, Hong Kong), Interactive High-Order Hidden Markov Model and Its Applications
15:50-16:10		***Prisayarat Sangapate*** (Maejo University, Thailand), Adaptive control and synchronization of the shallow water model	***Tomoyuki Miyaji*** (JSPS Research Fellow, Research Institute for Mathematical Sciences, Kyoto University, Japan), Taylor model for Poincare map and applications	**Roden David** (Mathematics, Ateneo de Manila University, Philippines), Transform Methods for Approximating Eigenvalues of Matrices	***Ben Nohara*** (The University of Tokyo, Japan), A mathematical consideration of the art: The Great Wave off Kanagawa by Katsushika Hokusai	***Mohd Omar*** (Mathematics, University of Malaya, Malaysia), An integrated manufacturing system for linearly time-varying demand process
16:10-16:30		***Hua Zou*** (School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore), A novel meshless method for solving integral equations	***Akitoshi Takayasu*** (Faculty of Science and Engineering, Waseda University, Japan), Computer-assisted existence proof of solutions to elliptic equations in divergence form	***Yu-Fen Cheng*** (Department of Mathematics, National Central University, Taiwan), Parallel Two-level Polynomial Jacobi-Davidson Eigensolver for Large, Sparse Dissipative Acoustic Problems	***Ferry Jaya Permana*** (Department of Mathematics, Universitas Katolik Parahyangan, Indonesia), An Approximate Distribution for the Weighted Sum of the Variance Gamma Processes	***Roberd Saragih*** (Industrial and Financial Mathematics Research Group, Institut Teknologi Bandung, Indonesia), Controller with minimum order for infinite dimensional system based on singular perturbation
16:30-16:50		***Sutawanir Darwis*** (Statistics Research Division, Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Indonesia), Reserve Estimation	***Jia-Wei Lee*** (Department of Harbor and River Engineering, National Taiwan Ocean University, Taiwan), A semi-analytical approach for a nonconfocal suspended strip in an elliptical waveguide	***Han En Hsieh*** (Department of Mathematics, National Taiwan University, Taiwan), Eigendecomposition of the Discrete Double-Curl Operator with Quasi-Periodic Boundary Condition	***Dharma Lesmono*** (Department of Mathematics, Universitas Katolik Parahyangan, Indonesia), Modelling Option on Indonesian Stock Indices Using Variance Gamma	***David Gao*** (School of Science, Information Technology and Engineering, University of Ballarat, Australia), Unified Understanding for Complex Systems and Solutions to Certain NP-Hard Problems
16:50-17:10		***Li-Ming Yeh*** (Department of Applied Mathematics, National Chiao-Tung University), Uniform Estimate for Non-Uniform Elliptic Equations with Discontinuous Coefficients	***David Ni*** (Research, Direxion Technology, Taiwan), Topological Transitions of Meromorphic Maps of Extended Lorentz Transformation	***Dongjin Lee*** (Graduate School of Engineering, Nagoya University, Japan), Eigenvalue Computation for a Specific Need Arising from Electronic Structure Calculation	***Ali Serdar Nazlipinar*** (Dumlupinar University, Turkey), An Algorithm for Calculation of Attainable Sets of Nonlinear Control Systems with Limited Resources	***Timothy Gao*** (Department of Applied and Engineering Physics, Cornell University, USA), Solutions to an 8th Order Polynomial Minimization Problem by Canonical Duality Theory
17:10-17:30					***Yaowaluck Khongtham*** (Department of Mathematics, Faculty of Science, Mae jo University, Thailand), Common Solutions of Variational Inclusions Problems, Equilibrium Problems and Fixed Point Problems in Hilbert Spaces	***Michelle Vallejos*** (Institute of Mathematics, University of the Philippines, Philippines), Multigrid optimization methods for boundary optimal control problems
17:30-19:30	*Reception*					

EASIAM 2012: DAY 3 (June 27, 2012)

Time						
	Keynote Talk					
10:00-11:00	***Yalchin Efendiev*** (Department of Mathematics, Texas A&M University, USA), TBA					
11:00-11:10	*Coffee*					
	Invited Talks					
11:10-11:50	***Xuejun Xu*** (Institute of Computational Mathematics, Chinese Academy of Sciences, China), Local Multilevel Method and Its Application					
12:00-13:20	*Lunch*					
		Parallel Session 16: Applied Partial Differential Equations	*Parallel Session 17: Numerical Analysis*	*Parallel Session 18: Auto-Tuning*	*Parallel Session 19: Specific Topics*	*Parallel Session 20: Operation Research and Optimization*
13:20-13:40		***Ruo Li*** (School of Mathematical Sciences, Peking University, China), Globally Hyperbolic Regularization of Grad's Moment System	***ChiehSen Huang*** (Department of Applied Mathematics, National Sun Yat-sen University, Taiwan), A locally conservative Eulerian-Lagrangian finite volume WENO scheme for advection problems	***Takahiro Katagiri*** (Information Technoloy Center, The University of Tokyo, Japan), ppOpen-AT: An Auto-tuning Language for ppOpen-HPC ---Its New function and Impact to Application Software ---	***Wikaria Gazali*** (BINUS University, Indonesia), Program Design Classification Simulation Sandals Dhiif's Product with Back Propagation and Fourier Descriptors Method	***Emrah Akyar*** (Department of Mathematics, Anadolu University, Turkey), Brown-Robinson Method for Matrix Games with Fuzzy Payoffs
13:40-14:00		***Chin-Tien Wu*** (Department of Applied Mathematics, National Chiao-Tung University, Taiwan), On the reconstruction of the reflection and refraction free-form surfaces arising from geometric optics design	***Hiroshi Fujiwara*** (Graduate School of Informatics, Kyoto University, Japan), Numerical Analysis and Computations for the Radiative Transport Equation	***Takao Sakurai*** (Hitachi, Ltd.), OpenATLib: Automatic solver and preconditioner selection for sparse matrix libraries	***Yudi Soeharyadi*** (Department of Mathematics, Institut Teknologi Bandung, Indonesia), On energy decay in a Neumann problem of reaction diffusion equation	***Handan Akyar*** (Department of Mathematics, Anadolu University, Turkey), A new geometric approach for ranking generalized trapezoidal fuzzy numbers
14:00-14:20		***Yu-Chen Shu*** (Department of Mathematics, National Cheng Kung University, Taiwan), Coupling Interface Method for Solving Poisson-Boltzmann Equation	***Zhou Guanyu*** (Graduate School of Mathematical Science, The University of Tokyo, Japan), Analysis of the fictitious domain method with penalty for parabolic problem	***Yaohung M. Tsai*** (Department of Mathematics, National Taiwan University, Taiwan), Optimizing the Block Size for QR Factorization on CPU-GPU Hybrid Systems	***Oranit Panprasitwech*** (Department of Mathematics, King Mongkut's University of Technology Thonburi, Thailand), A Combinatorial Interpretation for Generalized Continued Fractions	***Xiaoming Yuan*** (Department of Mathematics, Hong Kong Baptist University, Hong Kong), Customized Proximal Point Algorithms and Applications to Image Processing
14:20-14:30	*Coffee*					
			Parallel Session 21: Numerical Analysis	*Parallel Session 22: Auto-Tuning*	*Parallel Session 23: Specific Topics*	
14:30-14:50			***Chi-Tien Lin*** (Deaprtment of Financial and Computational Mathematics, Providence University, Taiwan), Numerical study for long-time solutions for some hyperbolic conservation laws with nonlinear term	***Reiji Suda*** (Department of Computer Science, the University of Tokyo, Japan), 4DAC and One-Step Approximation: Mathematical Formulation and Algorithm for Automatic Tuning	***Watcharapon Pimsert*** (Department of Mathematics, Faculty of Science, Kasetsart University, Thailand), Pexiderized forms of a logarithmic functional equation	
14:50-15:10			***Yun-Shih Wang*** (Department of Applied Mathematics, National Chung Hsing University, Taiwan), A two-parameter continuation algorithm for vortex pinning in rotating Bose-Einstein condensates	***Teruo Tanaka*** (Department of Computer Science, Faculty of Infomatics, Kogakuin University, Japan), An Incremental Parameter Estimation Method Appling d-Spline for Software Automatic Tuning	***Anurak Thanyacharoen*** (Department of Mathematics and Statistics, Faculty of Science and Technology, Thammasat University, Thailand), A general solution of a generalized additive-quartic functional equation	
15:10-15:30			***Norikazu Saito*** (Graduate School of Mathematical Sciences, The University of Tokyo, Japan), Finite volume approximation for fast diffusion equations	***Chenhan Yu*** (Department of Mathematics, National Taiwan University, Taiwan), Modeling and Optimizing Performance of Symmetric Positive Definite Multifrontal on Hybrid CPU-GPU Systems	***Aldo Malvin*** (Division of Environment, The University of Nottingham-Malaysia Campus), Computational Study on the Performance of a Novel Anaerobic Baffled Reactor (ABR)	
15:30-15:50					***Warisa Yomsatieankul*** (Department of Mathematics, Faculty of Science, King Mongkut's University of Technology Thonburi, Thailand), Third-order Reconstruction Using Meshfree Interpolating Moving Least Squares Method	
15:50-16:00	*Break + Transition to Closing*					
16:00-16:30	*Closing / Lottery Winner*					