

High-Performance Computing and Computational Mathematics Section

Research Areas	Title	Author	U/C	Address	Participation	Status
HPCCM010	<i>Visualization of Gene Expression Data by Gene Ontology Discriminant Analysis</i>	Jamlong Khamphachua, Jeerayut Chaijaruwanich*	<i>CMU, TH</i>	Department of Computer Science, Faculty of Science, Chiang Mai University Chiang Mai, Thailand 50200 Corresponding author*: jeerayut@science.cmu.ac.th Phone: 66-053-943409 Fax: 66-053-943433	Oral	Received
HPCCM014	<i>Microarray Data Analysis using Gaussian-based Mutual Information</i>	Phasit Charoenkwan (1), Khwunta Kirimasthong (1), Jeerayut Chaijaruwanich (1)*, Sakarindr Bhumiratana (2)	<i>CMU, TH</i> <i>BIOTEC, TH</i>	(1) Department of Computer Science, Faculty of Science, Chiang Mai University, Chiang Mai 50200, Thailand (2) National Center for Genetic Engineering and Biotechnology, Pathumthani 12120, Thailand *Corresponding author: jeerayut@science.cmu.ac.th , Phone: 66-053-943409 Fax: 66-053-943433	Oral	Received
HPCCM018	<i>Parallel Algorithms for Solving the Shape-Preserving Interpolation Problem</i>	Anirut Luadsong	<i>KMUTT, TH</i>	Department of Mathematics, King Mongkut's University of Technology Thonburi (KMUTT) 91 Prachauthit Road (Suksawad 48) Bangmod Thung Khuru District Bangkok 10140 Email : anirut.lua@kmutt.ac.th	Oral	Received
HPCCM027	<i>An Adaptation of Evolutionary Strategies for Forecasting Exchange Rate</i>	Sunisa Rimcharoen , Prabhas Chongstitvatana*	<i>CU, TH</i>	Department of computer engineering Chulalongkorn University Phayathai Road, Bangkok 10330, Thailand E-mail: g46srm@cp.eng.chula.ac.th , prabhas@chula.ac.th	Oral	Received
HPCCM028	<i>Performance Evaluation of Peer-to-Peer Approach to Resource Discovery for Large Scale Grid Environments</i>	Sivadon Chaisiri *, Putchong Uthayopas	<i>KU, TH</i>	High Performance Computing and Networking Center, Faculty of Engineering, Kasetsart University 50 Phaholyothin Rd., Chatuchak, Bangkok 10900, Thailand { g4665304, pu }@ku.ac.th	Oral	Received
HPCCM029	<i>Performance Study and Modeling of GridRPC Mechanism</i>	Thanawut Thanavanich*, Putchong Uthayopas	<i>KU, TH</i>	High Performance Computing and Networking Center, Faculty of Engineering, Kasetsart University 50 Phaholyothin Rd., Chatuchak, Bangkok 10900, Thailand Email g4665290@ku.ac.th , pu@ku.ac.th	Oral	Received
HPCCM034	<i>The Novel Algorithm for Structural Leaf Model</i>	Anuchit Jitpattanakul, Suchada Siripant, Chidchanok Lursinsap*	<i>CU, TH</i>	Advanced Virtual and Intelligent Computing (AVIC) Center 5 th Floor, the Gemmological Research and Testing Building, Chulalongkorn University, Phayathai Road, Bangkok 10330, THAILAND	Oral	Received

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HPCCM036	<i>Artificial Intelligence Techniques for Behavioral Animation of Virtual Avatars</i>	Andrés Iglesias *, Francisco Luengo	<i>Cantabria, Spain</i>	Department of Applied Mathematics and Computational Sciences, University of Cantabria, Spain iglesias@unican.es *Corresponding author. Phone: +34-942-201723. Fax: +34-942-201703. Web Page: http://personales.unican.es/iglesias	Oral	Received
HPCCM037	<i>Chaos Synchronization and its Application to Cryptographic Communications with Circuits and Lasers</i>	Andrés Iglesias*, Akemi Gálvez	<i>Cantabria, Spain</i>	Department of Applied Mathematics and Computational Sciences, University of Cantabria, Spain iglesias@unican.es *Corresponding author. Phone: +34-942-201723. Fax: +34-942-201703. Web Page: http://personales.unican.es/iglesias	Oral	Received
HPCCM041	<i>Numerical Homogenization of Nonlinear Partial Differential Equations and Its Applications</i>	Yalchin Efendiev	<i>Texas A& M, USA</i>	Department of Mathematics, Texas A&M University, College Station, TX, USA	Oral	Received
HPCCM042	<i>A Mathematical Study of Non-linear Systems Under Combined Deterministic and Narrowband Random Excitation</i>	Chinviriyasit W.	<i>KMUTT, TH</i>	Department of Mathematics, Faculty of Science, King Mongkut's University of Technology Thonburi	Oral	Received
HPCCM044	<i>Reducing Error Recovery Time in Continuous Valued Number System</i>	S. Srivanasont* A. Surarerks	<i>CU, TH</i>	ELITE (Engineering Laboratory in Theoretical Enumerable System) 17 th floor, Department of Computer Engineering, Faculty of Engineering, Chulalongkorn University Pathumwan, Bangkok 10330, Thailand Tel: (66) 2 218 6992 Fax: (66) 2 218 6955 Sira.Sr@student.chula.ac.th , Athasit@cp.eng.chula.ac.th	Oral	Received
HPCCM050	<i>Web Pages Categorization using Ensemble Classifiers</i>	Kanchana Saengthongpattana *, Nuanwan Soonthornphisaj	<i>KU, TH</i>	Dept. of Computer Science, Faculty of Science Kasetsart University, Bangkok, Thailand. g4564171@ku.ac.th and fscinws@ku.ac.th	Oral	Received
HPCCM054	<i>Orchestrating Grid Applications with BPEL</i>	Pichet Amnuaykanjanasin*, Natawut Nupairoj	<i>CU, TH</i>	Department of Computer Engineering, Chulalongkorn University Phyathai Road, Pathumwan, Bangkok 10330 Thailand Phone : +66 2 2186996 Fax : +66 2 2186955 E-mail: golf@cp.eng.chula.ac.th , Natawut.N@chula.ac.th	Oral	Received

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HPCCM059	<i>Floating Circle of Objects (FCO) Simulation with Hydrodynamic Model</i>	<u>Chairote YAI PRASERT*</u> , Krisanadej ROENSUTASINEE	<i>WU, TH</i>	Institute of Science, Computational Science Graduate Program, Walailak University, Nakhon Si Thammarat. 80160. Thailand (E-mail: 45203221@wu.ac.th, jkrisana@wu.ac.th)	Oral	Received
HPCCM068	<i>A New Framework for Learning First-Order Representation</i>	Thanupol Leardlumnouchai*, Boonserm Kijisirikul	<i>CU, TH</i>	Department of Computer Engineering, Chulalongkorn University, Pathumwan, Bangkok, 10330, Thailand. Email: g46tll@cp.eng.chula.ac.th, boonserm.k@chula.ac.th	Oral	Received
HPCCM070	<i>Numerical algorithm for transfer function synthesize using experimental frequency response data</i>	Moshkin N.P.*, Srisertpol J., <u>Rodpai A.</u>	<i>SUT, TH</i>	Suranaree University of Technology 111 University Ave., Muang District, Nakhon Ratchasima 30000 Thailand	Oral	Received
HPCCM071	<i>Parallel Computation of Complex-Geometry Flows using a Multiblock Technique</i>	Kiattisak Ngiamsoongnirn (1)*, Varangrat Juntasaro (2), Ekachai Juntasaro (1), Putchong Uthayopas (3)	<i>SUT, TH KU, TH</i>	(1) School of Mechanical Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima 30000, Thailand, Phone: (+6644)224410-2, Email: kiatt2000@hotmail.com; junta@sut.ac.th (2) Department of Mechanical Engineering, Faculty of Engineering, Kasetsart University, Bangkok 10900, Thailand, Phone: (+662)9428555 ext 1829, Email: fengvri@ku.ac.th (3) Department of Computer Engineering, Faculty of Engineering, Kasetsart University, Bangkok 10900, Thailand, Phone: (+662)9428555 ext 1416, Email: pu@ku.ac.th	Oral	Received
HPCCM082	<i>Performance Modeling of PVFS Parallel File System on Commodities PC Cluster</i>	Kittirak Moungmingsuk*, Putchong Uthayopas	<i>KU, TH</i>	High Performance Computing and Networking Center, Faculty of Engineering, Kasetsart University Bangkok Thailand Email: kittirakm@hpcnc.cpe.ku.ac.th, pu@ku.ac.th	Oral	Received
HPCCM099	<i>Linking Beowulf Clusters and Windows Environment Using a Middleware Approach</i>	Suchin Phutthachartkul*, Putchong Uthayopas	<i>KU, TH</i>	High Performance Computing and Networking Center Faculty of Engineering, Kasetsart University 50 Phaholyothin Rd. Chatuchak, Bangkok, 10900, Thailand Email: g4665307@ku.ac.th, pu@ku.ac.th	Oral	Received

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HPCCM120	<i>Simulation of Recurrent Inference Networks for Intelligent Systems</i>	D. Al-Dabass, D. Evans and S. Sivayoganathan	<i>NTU,UK</i>	School of Computing and Technology The Nottingham Trent University Nottingham, NG1 4BU, UK Email: david.al-dabass@ntu.ac.uk	Oral	Received
HPCCM131	<i>Prediction and Animation of Dynamical Behavior of Color Diffusion in Water Using 2-D Tightly Coupled Neural Cellular Network</i>	K. Na Nakornphanom*, C. Lursinsap, J. Asavanant, and F. Lin	<i>CU,TH</i>	Advanced Virtual and Intelligent Computing (AVIC) Research Center Department of Mathematics, Faculty of Science, Chulalongkorn University, Bangkok, Thailand	Oral	Received
HPCCM137	<i>Hybrid Direction Method for Solving Unconstrained Minimization Problems</i>	Prapasri Asawakun(1),* Phaichayon Sirisathienwatthana (2)	<i>SUT,TH Rajabhat,TH</i>	(1) School of Mathematics, Institute of Science, Suranaree University of Technology, Nakhon Ratchasima, Thailand. (2) Department of Mathematics, Rajabhat Kumphaengphet Institute, Kumphaengphet, Thailand	Oral	Received
HPCCM138	<i>A New Visualization for Bacterial Common Gene Groups</i>	Noppadon Khiripet	<i>NECTEC,TH</i>	National Electronics and Computer Technology Center 112 Phahon Yothin Rd., Klong 1, Klong Luang, Pathumthani 12120, Thailand Tel 662-564-6900 Ext 2226 Fax 662-564-6772 khirin@nectec.or.th	Oral	Received