The 15th IEEE International Conference on Computational Science and Engineering (IEEE CSE2012)

Program

December 5 th					
Time	Session 1	Session 2	Session 3		
	Room Akamas 1				
09:00 - 10:30	Keynote: Santosh Kumar Title: Mobile Measurement of Behavioral and Social Health at Population Scale - Implications for Computing Research				
10:30 - 11:00	Coffee Break				
	Room Akamas 1	Room Akamas 2	Room Akamas 3		
11:00 - 12:30	EUC-1: Application- Specific Architectures	EUC-2: Smart Mobile Systems	CSE-1: CSE Applications I		
12:30 - 13:30	Lunch				
13:30 - 15:00	EUC-3: Special Session 1 - Virtualization and adaptive systems	EUC-4: Power-Aware Systems	CSE-2: CSE Applications II		
15:00 - 15:30	Coffee Break				
15:30 - 17:00	EUC-5: Special Session 2 - New frontiers in multicore and reconfigurable computing systems	EUC-6: Multiprocessors: Memories and Fault- Tolerance	CSE-3: Database and Data Mining I		

December 6 th						
Time	Session 1	Session 2	Session 3			
	Room Akamas 1					
09:00 - 09:30	Awards					
09:30 - 10:30	Keynote: Professor Geyong Min Title: Performance Analysis and Optimization of Integrated Scheduling Systems in Wireless Multimedia Networks					
10:30 - 11:00	Coffee Break					
	Room Akamas 1	Room Akamas 2	Room Akamas 3			
11:00 - 12:30	EUC-7: Storage	EUC-8: Distributed and Smart Sensing	CSE-4: Database and Data Mining II			
12:30 - 13:30	Lunch					
13:30 - 15:00	EUC-9: Smart Mobile Systems: Performance, Security and Reliability	EUC-10: Scheduling Techniques	CSE-5: Scientific and Engineering Computing			
15:00 - 15:30	Coffee Break					
15:30 - 17:00	EUC-11: Model Driven and *-Aware Systems	EUC-12: From Embedded Processors to Distributed Systems	CSE-6: Scientific and Engineering Computing			

December 7 th					
Time	Session 1	Session 2	Session 3		
	Room Akamas 1	Room Akamas 2	Room Akamas 3		
09:00 - 10:30	EUC-13: Real Time Systems	CSE-7: Distributed and Parallel Computing I	CSE-8: Security, Privacy and Trust I		
10:30 - 11:00	Coffee Break				
11:00 - 12:30	EUC-14: Data Quality and Quality of Service	EUC-15: Dependability and Security	CSE-9: Security, Privacy and Trust II		
12:30 - 13:30	Lunch				
13:30 - 15:00	EUC-16: Smart Environments	CSE-10: Embedded and Ubiquitous Computing	CSE-11: Advanced Networking and Applications		
15:00 - 15:30	Coffee Break				
15:30 – 17:00	EUC-17: UUWSN2012: Underwater Wireless Communication	CSE-12: Services, Internet and Parallel Computing	CSE-13: Intelligent and Bio-inspired Computing		

Session CSE-1: CSE Applications I

Chair: Marco Kuhrmann

1. Building Input Adaptive Parallel Applications: A Case Study of Sparse Grid Interpolation

Alin Murarasu

2. A Lightweight Middleware for developing P2P Applications with Component and Service-Based Principles

Ayoub Ait Lahcen, Didier Parigot

3. An Efficient Approach for Nozzle Rocket Thrust Estimation

Pansaporn Sribonfha, Sirod Sirisup, Pawat Chusilp, Weerachart Kulsirikasem

Session CSE-2: CSE Applications II

Chair: Pawat Chusilp

1. Automatic Scaling of Complex-event Processing Applications in Eucalyptus

Irina Astrova, Arne Koschel, Marc Schaaf

2. DCA:Dynamic Challenging Level Adapter for Real-time Strategy Games

Nai-Yan Yang, Shin-Hung Chang

3. A GRASP-based heuristic for the Project Portfolio Selection Problem

Cleber Mira, Pedro Feijão, Maria Souza, Arnaldo Moura, João Meidanis, Gabriel Lima, Renato Bossolan, Ítalo

Freitas

4. Allocation of hard real-time periodic tasks for reliability maximization in distributed systems

Hamid Reza Faragardi, Reza Shojaee, Mazyar Mirzazad, Naser Yazdani

Session CSE-3: Database and Data Mining I

Chair: John O'Donnel

1. O2-Tree: A Fast Memory Resident Index for NoSQL Data-Store

Daniel Ohene-Kwofie, Ekow Otoo, Gideon Nimako

2. Clustering to Deal with the New User Problem

Christos Bouras, Vassilis Tsogkas

3. Runtime Characterization of Triple Stores

Long Cheng, Spyros Kotoulas, Tomas Ward, Georgios Theodoropoulos

Session CSE-4: Database and Data Mining II

Chair: Javier Cubo

1. Automatic Clustering Assessment through a Social Tagging System

Elisabeteferraz Cunha, Álvaro Figueira

2. A New Concise Representation of Generalized Frequent Itemsets Based on Profile Summary

Yuxing Mao, Chenghong Zhang, and Hong Ling

- More Investment in Conceptual Designers: Think about it!
 Selma Khouri, Ladjel Bellatreche, Ilyes Boukhari, Selma Bouarar
- 4. Applying Security Patterns for Component Based Applications Using UML profile Rahma Bouaziz, Bernard Coulette

Session CSE-5: Scientific and Engineering Computing

Chair: Rahma Bouaziz

- Optimisation and parallelism in synchronous digital circuit simulators
 John O'Donnell, Cordelia Hall
- Parameter Sweep and Optimization of Loosely Coupled Simulations Using the DAKOTA Toolkit Wael Elwasif, David Bernholdt, Sreekanth Pannala, Srikanth Allu, Samantha Foley
- Implementation of a Data-driven Workflow Management System Nahla Haddar, Mohamed Tmar, Faiez Gargouri

Session CSE-6: Scientific and Engineering Computing II

Chair: Didier El Baz

- Heuristic Method to Find Magic Squares
 Evelín Fonseca Cruz, Enguerran Grandchamp
- Automatic Tuning of Sparse Matrix-Vector Multiplication for CRS format on GPUs Hiroki Yoshizawa, Daisuke Takahashi
- A new approach for indexing powder diffraction data based on dichotomy method Ivan Šimeček

Session CSE-7: Distributed and Parallel Computing I

Chair: Daisuke Takahashi

- Fault Tolerant Implementation of Peer-to-Peer Distributed Iterative Algorithms
 The Tung Nguyen, Didier El-Baz
- A Load Balanced Distributed Algorithm to Solve the Permutation Flow Shop Problem Using the Grid Samia Kouki, Mohamed Jemni, Talel Ladhari
- 3. A parallel application programming and processing environment proposal for grid computing Augusto Gomes Jr., Liria Sato, Francisco Massetto

Session CSE-8: Security, Privacy and Trust I

Chair: Kamal Salih Taha

 Protecting Privacy of User Information in Continuous Location-Based Services Claudio A. Ardagna, Giovanni Livraga, Pierangela Samarati Supporting Security Requirements for Resource Management in Cloud Computing Ravi Jhawar, Vincenzo Piuri, Pierangela Samarati

Use of Human Cognition in HIP Design via EmotIcons to Defend BOT Attacks
 Mir Tafseer Nayeem, Md. Saddam Hossain Mukta, Md. Rifat Ahmmad Rashid, Md. Mahbubur Rahman

Session CSE-9: Security, Privacy and Trust II

Chair: Kamal Salih Taha

 Supporting Security Engineering at Design Time with Adequate Tooling Jörn Eichler, Andreas Fuchs, Nico Lincke

 A Practical Approach to align Research with Master's Level Courses Marco Kuhrmann

Session CSE-10: Embedded and Ubiquitous Computing

Chair: Javier Cubo

 Code Compression in ARM Embedded Systems using Multiple Dictionaries Wanderson Roger Azevedo Dias, Edward David Moreno

Low power instruction cache with word selective line buffer
 Hyun-Bum Cho, Ju-Hee Choi, Seong-Tae Jhang, Chu-Shik Jhon

A Symmetric Compositional Approach for Adaptive Ubiquitous Systems
 Sana FATHALLAH BEN ABDENNEJI, Stéphane Lavirotte, Jean-Yves Tigli, Gaeten Rey, Michel Riveill

4. Extension of the Particle Therapy Simulation Framework to Hospital Information Systems and Multi-grid

Tsukasa Aso, Yoshikazu Maeda, Go Iwai, Wataru Takase, Takashi Sasaki, Tomohiro Yamashita, Takashi Akagi, Yuki Nakano

Session CSE-11: Advanced Networking and Applications

Chair: I-Ling Yen

 A Chain Based Relocation Approach to Maintain Connectivity with a Center of Interest Ines Korbi, Sherali Zeadally

QoS-Aware LTE Downlink Scheduler for VoIP with Power Saving
 M. Sajid Mushtaq, Abdussalam Shahid, Scott Fowler

Session CSE-12: Services, Internet and Parallel Computing

Chair: Scott Fowler

 Automated Exception Handling in Service Composition Using Holistic Planning Jian Huang, Wei Zhu, Farokh Bastani, I-Ling Yen, Jicheng Fu

- 2. On the Service Discovery using Context-Awareness, Semantic Matching and Behavioural Compatibility Javier Cubo, Ernesto Pimentel
- 3. Efficient Multi-Core Computations in Computational Statistics and Econometrics Panagiotis Michailidis, Konstantinos Margaritis
- 4. Programming models based on data versioning for dependency-aware task-based parallelisation Afshin Zafari, Martin Tillenius, Elisabeth Larsson

Session CSE-13: Intelligent and Bio-inspired Computing

Chair: Sana Fathallah Ben Abdenneji

- RGRank: Ranking Semantically Related Genes
 Kamal Taha, Dirar Al Homouz, Hassan Al Muhairi
- 2. Ant Colony Prototype Reduction Algorithm for kNN classification Amal MILOUD-AOUIDATE, Ahmed Riadh BABA-ALI