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# HPCC-09 Program at a Glance

### June 25, 2009 (Thursday)

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:30</td>
<td>Registration</td>
</tr>
<tr>
<td>12:45-13:00</td>
<td>Opening Remarks</td>
</tr>
<tr>
<td></td>
<td>Conference venue: Korea University-Inchon Memorial Hall (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td>13:00-15:30</td>
<td>S1: Algorithms &amp; Applications I (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td></td>
<td>S2: Reliability, Fault-Tolerance &amp; Security (Room I -201-, 2nd floor)</td>
</tr>
<tr>
<td></td>
<td>AHPCN/S1: Parallel, Distributed &amp; Grid Computing I (Room II -203-, 2nd floor)</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Coffee Break (Lounge, 2nd floor)</td>
</tr>
<tr>
<td>16:00-18:30</td>
<td>S3: Algorithms &amp; Applications II (Big Hall –Room 101-, 1st floor)</td>
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<td></td>
<td>S4: Privacy &amp; Network Communications (Room I -201-, 2nd floor)</td>
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<tr>
<td></td>
<td>AHPCN/S2: Parallel, Distributed &amp; Grid Computing II (Room II -203-, 2nd floor)</td>
</tr>
<tr>
<td>18:30-20:00</td>
<td>Reception Dinner (VIP Hall, 1st floor)</td>
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### June 26, 2009 (Friday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Registration</td>
</tr>
<tr>
<td>09:30-10:30</td>
<td>Keynote 1 (ISA 2009): Cloud Computing Security by Prof. Jong Sou Park, Korea Aerospace University, Korea (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>Coffee Break (Lounge, 2nd floor)</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Keynote 2: Virtual Clusters for Grid, Cloud, and High-performance Computing by Prof. Kai Hwang, University of Southern California, USA (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td>12:00-13:00</td>
<td>Lunch (VIP Hall, 1st floor)</td>
</tr>
<tr>
<td>13:00-15:30</td>
<td>S5: Architectures &amp; Systems (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td></td>
<td>S6: Wireless &amp; Mobile Communications I (Room I -201-, 2nd floor)</td>
</tr>
<tr>
<td></td>
<td>AHPCN/S3: Algorithms &amp; Applications (Room II -203-, 2nd floor)</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Coffee Break (Lounge, 2nd floor)</td>
</tr>
<tr>
<td>16:00-17:30</td>
<td>Panel: &quot;Software development and deployment challenges for next generation computer architectures&quot; Moderator: Edgar Gabriel Panelists: Jeremie Allard, Justin Y. Shi, Felix Wolf, Yunquan Zhang, Albert Y. Zomaya (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td>19:00-21:00</td>
<td>Banquet (Holiday Inn Seongbuk Hotel)</td>
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### June 27, 2009 (Saturday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Registration</td>
</tr>
<tr>
<td>09:30-10:30</td>
<td>Keynote 3: Energy-Aware Scheduling and Resource Allocation for Large-Scale Distributed Systems by Prof. Albert Y. Zomaya, The University of Sydney, Australia (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>Coffee Break (Lounge, 2nd floor)</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Keynote 4 (ISA 2009): RFID and USN Technologies and their Security Issues by Dr. Kyo-il Chung, Electronics and Telecommunication Research Institute (ETRI), Korea (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td>12:00-13:00</td>
<td>Lunch (VIP Hall, 1st floor)</td>
</tr>
<tr>
<td>13:00-15:30</td>
<td>S7: Grid, Cluster &amp; Parallel Computing I (Big Hall –Room 101-, 1st floor)</td>
</tr>
<tr>
<td></td>
<td>S8: Wireless &amp; Mobile Communications II (Room I -201-, 2nd floor)</td>
</tr>
<tr>
<td></td>
<td>AHPCN/S4: Architectures &amp; Networks I (Room II -203-, 2nd floor)</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Coffee Break (Lounge, 2nd floor)</td>
</tr>
<tr>
<td>16:00-18:30</td>
<td>S9: Grid, Cluster &amp; Parallel Computing II (Big Hall –Room 101-, 1st floor)</td>
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<tr>
<td></td>
<td>IWPAPS (Room I)</td>
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<td></td>
<td>MMAP &amp; NSDM (Room IV -206-)</td>
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<tr>
<td></td>
<td>AHPCN/S5: Architectures &amp; Networks II (Room II -203-, 2nd floor)</td>
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Prof. Jong Sou Park, Korea Aerospace University, Korea

About the keynote speaker

Jong Sou Park received the M.S. degree in Electrical and Computer Engineering from North Carolina State University in 1986. And he received his Ph.D in Computer Engineering from The Pennsylvania State University in 1994. From 1994 - 1996, he worked as an assistant Professor at The Pennsylvania State University in Computer Engineering Department and he was president of the KSEA Central PA, Chapter. He is currently a full professor in Computer Engineering Department, Korea Aerospace University. His main research interests are information security, embedded system, cloud computing and hardware design. He is a member of IEEE and IEICE, and he is an executive board member of the Korea Institute of Information Security and Cryptology, and Korea Information Assurance Society. He has published more than 100 technical conference and journal papers related to information security, embedded system, and hardware design.

Summary:

Cloud computing is an emerging computing paradigm where data and services reside in massively scalable data centers and can be ubiquitously accessed from any connected devices over the Internet. Many academic and industry put a lot of efforts on research and development of cloud computing. According to Berkeley RAD Lab’s view of Cloud computing, the one of major obstacles of cloud computing is availability of a service. In addition to availability of cloud computing services, performance, security, and survivability of the cloud computing system should be guaranteed under a variety of failures and malicious attacks. Furthermore, cloud computing service users’ service level agreements (SLAs) such as availability and reliability should be satisfied. In this talk, we will talk about (1) cloud computing basic (2) security issues on cloud computing (3) DDOS attack on cloud computing.
Keynote 2: Virtual Clusters for Grid, Cloud, and High-performance Computing

Prof. Kai Hwang, University of Southern California, USA

About the keynote speaker

Dr. Kai Hwang is a Professor of Electrical Engineering and Computer Science and Director of Internet and P2P/Grid Computing Laboratory at the University of Southern California (USC). He received the Ph.D. in Electrical Engineering and Computer Science from the University of California, Berkeley in 1972. Prior to joining USC in 1985, he has taught at Purdue University for many years. He has served as a visiting Chief Scientist at the Institute of Computing Technology, Chinese Academy of Sciences during 2008. Presently, he also serves as an EMC endowed visiting Professor at Tsinghua University.

An IEEE Fellow, he specializes in computer architecture, parallel processing, Internet security, and distributed computing systems. He has published 8 books and over 210 scientific papers in these areas. He is the founding Editor-in-Chief of the Journal of Parallel and Distributed Computing. He is also on the Editorial Board of IEEE Transactions on Parallel and Distributed Systems. He has lectured worldwide and performed advisory work for IBM, Intel, MIT Lincoln Lab., JPL in Caltech, Academia Sinica in China, ETL in Japan, GMD in Germany, and INRIA in France. He can be reached via Email: kaihwang@usc.edu or visit his website: http://Gridsec.usc.edu/Hwang.html.

Summary:

In this talk, the impact of cloud computing and emerging Internet applications will be assessed. A virtual-machine approach to cluster partitioning and mechanisms for replicated data protection will be presented. These techniques enable dynamic cloud resource provisioning and secure data management in web-scale distributed computing and business applications. The talk covers the impact of virtualization on grid, cloud, and high-performance computing platforms. He will discuss research frontiers in building virtualized grid/cloud infrastructures and assessing some grid/cloud projects at USA, France, Japan, and China, that explore distributed server clusters and globally deployed datacenters.
Keynote 3: Energy-Aware Scheduling and Resource Allocation for Large-Scale Distributed Systems

Prof. Albert Y. Zomaya, University of Sydney, Australia

About the keynote speaker

Albert Y. Zomaya is currently the Chair Professor of High Performance Computing and Networking in the School of Information Technologies, The University of Sydney. Prior to joining Sydney University he was a Full Professor in the Electrical and Electronic Engineering Department at the University of Western Australia, where he also led the Parallel Computing Research Laboratory during the period 1990–2002. He is the author/co-author of seven books, more than 350 publications in technical journals and conferences, and the editor of eight books and eight conference volumes. He is currently an associate editor for 16 journals, the Founding Editor of the Wiley Book Series on Parallel and Distributed Computing and a Founding Co-Editor of the Wiley Book Series on Bioinformatics. Professor Zomaya was the Chair the IEEE Technical Committee on Parallel Processing (1999–2003) and currently serves on its executive committee. He also serves on the Advisory Board of the IEEE Technical Committee on Scalable Computing and IEEE Systems, Man, and Cybernetics Society Technical Committee on Self-Organization and Cybernetics for Informatics and is a Scientific Council Member of the Institute for Computer Sciences, Social–Informatics, and Telecommunications Engineering (in Brussels). He received the 1997 Edgeworth David Medal from the Royal Society of New South Wales for outstanding contributions to Australian Science. Professor Zomaya is also the recipient of the Meritorious Service Award (in 2000) and the Golden Core Recognition (in 2006), both from the IEEE Computer Society. He is a Chartered Engineer (CEng), a Fellow of the American Association for the Advancement of Science, the IEEE, the Institution of Electrical Engineers (U.K.), and a Distinguished Engineer of the ACM. His research interests are in the areas of high performance computing, parallel algorithms, mobile computing, and bioinformatics.

Summary:

Global warming and climate change trends call for urgent action to manage information and communication technologies in a sustainable manner by minimizing energy consumption and utilizing resources more efficiently. Distributed computing environments have become the de facto platforms for many applications. These systems bring a range of heterogeneous resources that should be able to function continuously and autonomously. However, distributed systems expend a lot of energy which raises a range of important research issues related to the use and virtualisation of ICT resources in a way offers significant potential to contribute to the goal of what has been described as ‘green computing’. This talk will review some of the important questions related to the development of new algorithms and tools for energy–aware resource management allocation for large–scale distributed systems enabling these systems to become environmentally friendly.

Dr. Kyo-il Chung, Electronics and Telecommunication Research Institute (ETRI), Korea

About the keynote speaker

Dr. Chung, Principal Member of Engineering Staff of Information Security Research Division has joined ETRI (Electronics and Telecommunication Research Institute) since 1982. He is concerned in the information security technology field for the mobile environments, IC card system, electronic payment, biometrics, information warfare, digital forensics, ubiquitous computing including RFID/USN and a variety of cryptographic technologies. He has many talks related in information security technologies. As writings, he has many patents and research papers related in the information security. Also he has published some books related to Information Security and RFID. Especially, as the member of ITU-T SG17, he had lead international standardization about the security framework in the telecommunication system. Also, he presented the “Security issues in RFID systems” in ITU Workshop, October, 2005, “Security Issues in RFID and Sensor Networks” in ITU Workshop, February, 2006, “Security Issues in RFID and Allocated Frequency Band for RFID in Korea” in OECD Foresight Forum, 2005, and “Mobile RFID Technologies in Korea” in RFID/EPC Asia Adoption Forum, 2008.

As well, he was a professor of next generation security part in UST (University of Science and Technology, Korea), and now he is working for standardization in various SDOs such as Chair of TC1 (Technical Committee of Common Base Technology) in TTA (Telecommunications Technology Association), Chair of Home Network Security Forum, Chair of IC Card Forum in KEPIA (Korea Electronic Payment Industries Association), Chair of Security Group in Mobile RFID Forum, Chair of Electronic Passport Standardization Group of IC Card Research Centre in SNU (Seoul National Univ.). He was registered in “International Who’s Who” 2003 edition. He has received a Letter of Commendation from MIC (Ministry of Information and Communication, 1992) and MOST (Ministry of Science and Technology, 2006), the Technology Enhanced Award from KIISC(Korea Institute of Information Security & Cryptology, 2004) and the Distinguished Service Awards from IEEK (Institute of Electronic Engineers of Korea, 2007), ATS (Korea Agency for Technology and Standards, 2007), TTA (Telecommunications Technology Association, 2007), NPA (Korea National Police Agency, 2007), KISIA (Korea Information Security Industries Association, 2008).

Summary:

Recently, the evolution of ICT (Information & Communication Technology) has lead the information-oriented society more comfortable, more convenient. These are possible on the RFID/USN technologies.

In this talk, we discuss the security issues on the RFID/USN technologies. I will present three distinct sections: 1) introduction of RFID/USN technologies; 2) security issues, technologies and examples in RFID system; 3) security issues in USN system. Also we discuss the side-channel attack to RFID and sensor devices.
DETAIL SCHEDULE FOR HPCC-09

June 25, 2009 (Thursday)

9:00-12.00 : Registration

12:45-13:00: Opening Remarks

13:00-15:30: Parallel Sessions S1, S2 and AHPCN/S1

S1: Algorithms & Applications I (Chair: Josep-Lluis Larriba-Pey)

Fast Parallel Expectation Maximization for Gaussian Mixture Models on GPUs using CUDA
  Phani Kumar Nyshadham, Sanjiv Satoor, Ian Buck

A Hybrid System with Hidden Markov Models and Gaussian Mixture Models for Myocardial Infarction Classification with 12-Lead ECGs
  Pei-Chann Chang, Jui-Chien Hsieh, Jyun-Jie Lin, Yen-Hung Chou

A Massively Parallel Approach to Affine Transformation in Medical Image Registration
  Huynh Luong, Jong Myon Kim

Scheduling Large-Scale DNA Sequencing Applications
  Sudha Gunturu, Xiaolin Li, Laurence T. Yang

Dynamic Communication-Efficient Parallel Sorting on SMPs
  Tipraporn Thanakulwarapas, Jeeraporn Werapun

Parallel Dense Gauss-Seidel Algorithm on Many-Core Processors
  Hadrien Courtecuisse, Jeremie Allard

S2: Reliability, Fault-Tolerance & Security (Chair: Justin Y. Shi)

Reliability Optimization of Reconfigurable Computing Based Fault-Tolerant System
  Mi Zhou, Li Hong Shang, Yu Hu

A Mixed Software Rejuvenation Policy for Multiple Degradations Software System
  Xiaozhi Du, Yong Qi, Di Hou

N-Level Diskless Checkpointing
  Doug Hakkarinen, Zizhong Chen

Fast Live Cloning of Virtual Machine Based on Xen
  Yifeng Sun, Yingwei Luo, Xiaolin Wang, Zhenlin Wang, Binbin Zhang, Haogang Chen, Xiaoming Li

A Pattern-Based General Security Framework: An eBusiness Case Study
  Azzedine Benenmeur, Smriti K.Sinha, Ayda Saidane

Polymorphic Worm Detection Using Signatures Based on Neighborhood Relation
  Jie Wang, Jianxin Wang, Jianer Chen

AHPCN/S1: Parallel, Distributed & Grid Computing I (Chair: Felix Wolf)

MigBSP: A Novel Migration Model for Bulk-Synchronous Parallel Processes Rescheduling
  Rodrigo Righi, Laercio Pilla, Alexandre Carissimi, Philippe Navaux, Hans-Ulrich Heiss

A Comparison of Two Master-worker Scheduling Methods
  Luis de la Torre, Jaime Seguel

A Non-Critical Path Earliest-Finish Algorithm for Inter-dependent Tasks in Heterogeneous Computing Environments
  Liang-Teh Lee, Ching-Wei Chen, Hung-Yuan Chang, Chih-Chieh Tang, Kun-Chi Pan

Towards Predictive Modeling of Message-Passing Communication
  Verdi March, Vijayaraghavan Murali, Teo Yong Meng, Simon See, James Himer

Parallelization and Performance Analysis of an IMPES-based Oil-Water Reservoir Simulator
  Fadi Sibai, Hashir Kidwai
Adjacency-Based Mesh Process Mapping for Irregular Cluster Systems
Sangman Moh

15:30-16:00: Coffee Break

16:00-18:30: Parallel Sessions S3, S4 and AHPCN/S2

S3: Algorithms & Applications II (Chair: Zizhong Chen)

Matrix Inversion on the Cell/B.E. Processors
Shodai Yokoyama, Kazuya Matsumoto, Stanislav Sedukhin

Kahn Process Networks are a Flexible Alternative to MapReduce
Zeljko Vrba, Paal Halvorsen, Carsten Griswodz, Paul Beskow

Efficient Mining of Weighted Frequent Patterns Over Data Streams
Chowdhury Farhan Ahmed, Syed Khairuzzaman Tanbeer, Byeong-Soo Jeong, Young-Koo Lee

Parallel and Distributed Frequent Pattern Mining in Large Databases
Syed Khairuzzaman Tanbeer, Chowdhury Farhan Ahmed, Byeong-Soo Jeong

Cache-aware Load Balancing vs Cooperative Caching for Distributed Search Engines
David Dominguez-Sal, Marta Pérez-Casany, Josep Lluis Larriba-Pey

A Flexible Two-Layer Buffer Caching Scheme for Shared Storage Server
Meng Xiaoxuan, Si Chengxiang, Na Wenwu, Xu Lu

S4: Privacy & Network Communications (Chair: Karim Djemame)

A New Grid-Based Cloaking Algorithm for Privacy Protection in Location-Based Services
Jungho Um, Hyeongil Kim, Youngho Choi, Jaewoo Chang

Adaptive Voice Spam Control with User Behavior Analysis
Yan Bai, Xiao Su, Bharat Bhargava

Frame-based Architecture with Shared Buffers for Slotted Optical Packet Switching
Guan-Hong Jhou, Woei Lin

Efficient Java Communication Libraries over InfiniBand
Guillermo L. Taboada, Juan Touriño, Ramón Doallo, Yao Lin, Jizhong Han

6LoWPAN-SNMP: Simple Network Management Protocol for 6LoWPAN
Haksoo Choi, Nakyoung Kim, Hojung Cha.

On Achieving the Maximum Internet Capacity in Wireless Mesh Networks
Bin Xie, Haitong Wang, Dharma Agrawal

AHPCN/S2: Parallel, Distributed & Grid Computing II (Chair: Iván Rodero)

A Software Framework to Support Adaptive Applications in Distributed/Parallel Computing
Hao Liu, Søren-Aksel Sørensen, Amril Nazir

A Lightweight Approach of Automatic Resource Configuration in Distributed Computing
Hao Liu, Søren-Aksel Sørensen, Amril Nazir

A Performance-based Dynamic Loop Partitioning on Grid Computing Environments
Chao-Tung Yang, Lung-Hsing Cheng

Experiences of On-demand Execution for Large Scale Parameter Sweep Applications on OSG by Swift
Zhengxiong Hou, Mike Wilde, Mihael Hategan, Xingshe Zhou, Ian Foster, Ben Clifford

A Study of Bare PC Web Server Performance for Workloads with Dynamic and Static Content
Long He, Ramesh Karne, Alexander Wisjesinha, Ali Emdadi

VL-DSC: A Dynamic Services Composition Based Model for Virtual Laboratory Platform and Its Implementation
Jianxin Wang, Qinglong Zhang, Songqiao Chen, Zhaohui Xie

18:30-20:00: Reception Dinner
June 26, 2009 (Friday)

09:00- : Registration
(Chair: Hang-Bae Chang)
Prof. Jong Sou Park, Korea Aerospace University, Korea
10:30-11:00: Coffee Break
11:00-12:00: Keynote 2 : “Virtual Clusters for Grid, Cloud, and High-performance Computing”
(Chair: Juan Touriño)
Prof. Kai Hwang, University of Southern California, USA
12:00-13:00: Lunch
13:00-15:30: Parallel Sessions S5, S6 and AHPCN/S3

S5: Architectures & Systems (Chair: Laurence T. Yang)

Performance of Triplet based Interconnection Strategy for Multi-Core On-Chip Processors
Haroon-Ur-Rashid Khan, Shi Feng, Ji Weixing

Dynamically Filtering Thread-Local Variables in Lazy-Lazy Hardware Transactional Memory
Sutirtha Sanyal, Adrián Cristal, Osman Unsal, Mateo Valero, Sourav Roy

On the Performance of Commit-Time-Locking Based Software Transactional Memory
Zhengyu He, Bo Hong

Balancing Data Locality and Parallelism on Shared-cache Multi-core Systems
Michael Jason Cade, Apan Qasem

On Instruction-Level Method for Reducing Cache Penalties in Embedded VLIW Processors
Samir Ammenouche, Sid Ahmed Ali Touati, William Jalby

Automated Design of Logic Circuits with an Increasable Evolution Approach
Guoliang He, Naixue Xiong, Laurence T. Yang, Yuanxiang Li

S6: Wireless & Mobile Communications I (Chair: Bin Xie)

A Priority-based Hybrid Protocol in Wireless Sensor Networks
Hsu-Jung Liu, Mei-Wen Huang, Wen-Shyong Hsieh, Chenhuan Jack Jan

A Compensation-based Reliable Data Delivery for Instant Wireless Sensor Network
Yi-Ying Zhang, Xi Luo, Myong-Soon Park, Laurence T Yang, Lei Shu, Weiwei Fang

Dynamic Routing Layer for Data Query in Wireless Sensor Networks
Zusheng Zhang, Fengqi Yu, Liang Chen

Neighbors Investment Geographic Routing Algorithm in Wireless Sensor Network
Jianxin Wang, Huiyu Liu, Xiangning Zhao

A Potential Based Routing Protocol for Mobile Ad Hoc Networks
Dai-Young Kwon, Jae-Hwa Chung, Kyeong Hur, Won-Gyu Lee

Link Quality Aware Route Discovery for Robust Routing and High Performance in Mobile Ad Hoc Networks
Sangman Moh
AHPCN/S3: Algorithms & Applications (Chair: Jaime Seguel)

A Hybrid Genetic-Immune Algorithm with Improved Offsprings and Elitist Antigen for Flow-shop Scheduling Problems
Pei-Chann Chang, Wei-Hsiu Huang, Ching-Jung Ting, Ling-Chun Wu

A Varietal Genetic Algorithm by External Self-evolving Multiple-archives for Combinatorial Optimization Problems
Pei-Chann Chang, Wei-Hsiu Huang, Ching-Jung Ting, Wei-Je Chang, Chia-Hua Chang

A Coarse-grained Parallel Genetic Algorithm with Migration for Shortest Path Routing Problem
Salman Yussof, Rina Azlin Razali, Hang See Ong, Azimah Abd Ghapar, Marina Md Din

On Mining Repeating Pattern with Gap Constraint
Shin-Yi Chiu, Shih-Chuan Chiu, Jiuin-Long Huang

KBS-MAQAO: A Knowledge Based System for MAQAO Tool
Lamia Djoudi, William Jalby

Networked Haptic Virtual Environments Supporting Ultra High Resolution Display
Seokho Son, Vinay Ramachandra, JongWon Kim

15:30-16:00: Coffee Break
16:00-17:30: Panel: Software development and deployment challenges for next generation computer architectures
Moderator: Edgar Gabriel
Panelists: Jeremie Allard, Justin Y. Shi, Felix Wolf, Yunquan Zhang, Albert Y. Zomaya

19:00-21:00: Banquet

June 27, 2009 (Saturday)

09:00- : Registration
09:30-10:30: Keynote 3: “Energy-Aware Scheduling and Resource Allocation for Large-Scale Distributed Systems”
(Chair: Jong Hyuk Park)
Prof. Albert Y. Zomaya, University of Sydney, Australia

10:30-11:00: Coffee Break
11:00-12:00: Keynote 4 (ISA 2009): “RFID and USN Technologies and their Security Issues”
(Chair: Sang-Soo Yeo)
Dr. Kyo-il Chung, Electronics and Telecommunication Research Institute (ETRI), Korea

12:00-13:00: Lunch

13:00-15:30: Parallel Sessions S7, S8 and AHPCN/S4

S7: Grid, Cluster & Parallel Computing I (Chair: Verdi March)

Evaluation of Coordinated Grid Scheduling Strategies
Iván Rodero, Francesc Guim, Júlia Corbalán

Online Metatask Scheduling Heuristics for a Bidding-based Distributed System
Chien-Min Wang, Hsi-Min Chen, Chun-Chen Hsu
Graph-based Task Replication for Workflow Applications  
Raúl Sirvent, Rosa M. Badía, Jesús Labarta

A Cost Efficient Framework for Managing Distributed Resources in a Cluster Environment  
Amril Nazir, Hao Liu, Sören-Aksel Sørensen

Evaluating Provider's Risk Assessment Reliability in Grid Resource Brokering  
Iain Gourlay, Karim Djemame, James Padgett

A Streaming Intrusion Detection System for Grid Computing Environments  
Matthew Smith, Fabian Schwarzer, Marian Harbach, Thomas Noll, Bernd Freisleben

S8: Wireless & Mobile Communications II (Chair: Albert Y. Zomaya)

Design of Structure-Free and Energy-Balanced Data Aggregation in Wireless Sensor Networks  
Chih-Min Chao, Tzu-Ying Hsiao

Baoli Zhang, Fengqi Yu

Localization of Wireless Sensor Networks Using a Moving Beacon with a Directional Antenna  
Yao-Hung Wu, Wei-Mei Chen

A Game Theory based Load-Balancing Routing with Cooperation Stimulation for Wireless Ad Hoc Networks  
Fan Jiang

Efficient Geo-Tracking and Adaptive Routing of Mobile Assets  
Dineshbalu Balakrishnan, Amiya Nayak, Pulak Dhar, Shailesh Kaul

Adaptive Multi-Channel Utilization Scheme for Coexistence of IEEE802.15.4 LR-WPAN with Other Interfering Systems  
Kwang-il Hwang

AHPCN/S4: Architectures & Networks I (Chair: Yunquan Zhang)

Performance Analysis of NAND Flash-based SSD for designing a Hybrid Filesystem  
Jinsun Suk, Jaechun No

Orthogonal Instruction Encoding for a 16-bit Embedded Processor with Dynamic Implied Addressing Mode  
Daeho Kim, Jonghee M. Youn, Minwook Ahn, Yunheung Paek

SSARC: the Short-Sighted Adaptive Replacement Cache  
Zhiguang Chen, Nong Xiao, Yingjie Zhao, Zhong’an Lao

Double Binary Turbo Coding for BPPM-TH and BPAM-DS UWB Systems  
Eun Cheol Kim, Jin Young Kim

packetC Language for High Performance Packet Processing  
Ralph Duncan, Peder Jungck

General Euler Hadamard/DFT/DCT Polynomial Function for Complex Signal Processing  
Jia Hou, Moon Ho Lee, Ju Yong Park

15:30-16:00: Coffee Break

16:00-18:30: Parallel Sessions S9, IWPAPS, MMAP & NSDM, and AHPCN/S5

S9: Grid, Cluster & Parallel Computing II (Chair: Matthew Smith)

Grid Network Dimensioning by Modeling the Deadline Constrained Bulk Data Transfers  
Kashif Munir, Pascale Primet, Michael Welzl

Resource Leasing and the Art of Suspending Virtual Machines  
Borja Sotomayor, Rubén S. Montero, Ignacio M. Llorente, Ian Foster

Performance Evaluation of Unified Parallel C Collective Communications  
Guillermo L. Taboada, Carlos Teijeiro, Juan Touriño, Basilio B. Fraguela, Ramón Doallo, José Carlos
Mouriño, Damián A. Mallón, Andrés Gómez.
A Simple Performance Model for Multithreaded Applications Executing on Non-Uniform Memory Access Computers
Rui Yang, Joseph Antony, Alistair Rendell
Decoupling As a Foundation for Large Scale Parallel Computing
Justin Y. Shi
A Framework for Effective Memory Optimization of High Performance Computing Applications
Pingjing Lu, Yonggang Che, Zhenghua Wang

IWPAPS

Performance Evaluation of Multithreaded Sparse Matrix-Vector Multiplication using OpenMP
Shengfei Liu, Yunquan Zhang, Xiangzheng Sun, RongRong Qiu
A Parallel Memory Efficient Framework for Out-of-Core Meshes Simplification
Yongquan Lu, Nan Li, Pengdong Gao, Chu Qiu, Jintao Wang, Rui Lv
A Task-Based Fault-Tolerance Mechanism to Hierarchical Master/Worker with Divisible Tasks
Zhihui Dai, Fabien Viale, Xuebin Chi, Denis Caromel
A Parallel Refined Block Arnoldi Algorithm for Large Unsymmetric Matrices
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