

# The IEEE Fifteenth International Conference on Parallel and Distributed Systems (ICPADS'09)

December 8-11, 2009, Shenzhen, China

## Program Schedule

Monday, December 7, 2009	
14:00-19:00	Registration

Tuesday, December 8, 2009				
08:30-18:30	Registration in the reception hall			
<b>Workshops</b>				
Location	Room: Rome	Room: Vancouver	Room: Moscow	Room: Sydney
09:00-10:30	P2P-NVE-09 I	iVCE-09 I	IWACI-09 I	PMAC-2WN-09 I
10:30-11:00	Break			
	P2P-NVE-09 II	iVCE-09 II	IWACI-09 II	PMAC-2WN-09 II
12:30-14:00	Lunch			
14:00-16:00	P2P-NVE-09 III	iVCE-09 III	IWACI-09 III	MCSS-09 I
16:00-16:30	Break			
16:30-18:30		iVCE-09 IV		MCSS-09 II

Wednesday, December 9, 2009			
08:30-18:00	Registration in the reception hall		
08:30-09:00	<b>Opening (Room: Beijing)</b>		
09:00-9:50	<b>Keynote 1: Cloud Security with Defense Virtualization and Protected Data Access</b> , Prof. Kai Hwang, University of Southern California, USA <i>Session chair : Jianping Fan, Shenzhen Institute of Advanced Technology, China</i>		
9:50-10:40	<b>Keynote 2: Vulnerability Analysis of Wireless Sensor Networks: Challenges and Solutions</b> , Prof. Sajal K. Das, University Texas at Arlington <i>Session chair : Jiannong Cao, Hong Kong Polytechnic University, Hong Kong</i>		
10:40-11:00	Break		
<b>Conference</b>			
Location	Room: Rome	Room : Vancouver	Room : Moscow
11:00-12:30	Session 1 Peer-to-Peer I	Session 2 Parallel Computing with GPU	Session 3 Cluster Network
12:30-14:00	Lunch		
14:00-16:00	Session 4 Mobile and Sensor Computing I	Session 5 Novel Memory Systems	Session 6 Resource Management and Load Balancing
16:00-16:30	Break		
16:30-18:30	Session 7 Mobile and Sensor Computing II	Session 8 Multicore	Session 9 Algorithms & Applications
19:00-20:30	Reception		

Thursday, December 10, 2009	
08:30-17:30	Registration in the reception hall

09:00-10:00	<b>Keynote 3: Making Critical Links between Multi-threaded Applications and System Software for High Throughput Computing in Multi-cores</b> , Prof. Xiaodong Zhang, The Ohio State University, USA Session chair : Lionel M. Ni, Hong Kong Univ. of Science and Technology, Hong Kong		
10:00-10:30	Break		
10:30-11:15	<b>Invited Talk Session (Room: Beijing): "China-made Petaflop Computers"</b> Session chair : Dan Meng, Chinese Academy of Sciences, China <a href="#">Prof. Guoliang Chen</a> , Shenzhen University, China		
	<ol style="list-style-type: none"> <li><b>TH-1 (Milky Way): China's First Petaflop-class Supercomputer</b>, Prof. Kai Lu, National University of Defense Technology</li> <li><b>Dawning Roadmap for Cloud Computing Business</b>, Dr. Ulysses Xiaoyu Li, Dawning Information Industry Company.</li> <li><b>Issues in High End Computing Systems</b>, Dr. Mingfa Zhu, Lenovo Group.</li> </ol>		
11:15-12:30	<b>Panel Discussion (Room: Beijing)</b> Topic: <b>When Petaflops Meet the Cloud</b> Moderator: Prof. Francis Lau, The University of Hong Kong, Hong Kong		
12:30-14:00	Lunch		
<b>Conference</b>			
Location	Room: Rome	Room: Vancouver	Room: Moscow
14:00-15:30	Session 10 Network Processor	Session 11 GPU Programming	Session 12 Interconnection Network
15:30-16:00	Break		
16:00-18:00	Session 13 Virtual Machines	Session 14 Networks and Novel Applications	Session 15 Scheduling I
19:00-21:00	Banquet (Room: Beijing)		

<b>Friday, December 11, 2009</b>			
08:30-17:30	Registration in the reception hall		
09:00-10:00	<b>Keynote 4: Bridging Multi-Core and Distributed Computing: all the way up to the Cloud</b> , Prof. Denis Caromel, University of Nice-Sophia Antipolis, France Session chair : Cho-Li Wang, The University of Hong Kong, Hong Kong		
10:00-10:30	Break		
<b>Conference</b>			
Location	Room: Rome	Room: Vancouver	Room Moscow
10:30-12:30	Session 16 Peer-to-Peer II	Session 17 Cluster and Cloud Systems	Session 18 Power Management
12:30-14:00	Lunch		
14:00-16:00	Session 19 SoC and Embedded Systems	Session 20 Security and Trust Computing	Session 21 Performance Evaluation & Modeling
16:00-16:30	Break		
16:30-18:00	Session 22 Innovative Systems and Tools	Session 23 Ubiquitous Networking	Session 24 Scheduling II
18:00	Conference Closing		
18:20-22:00	Fun at Chinese Folk Culture Village		

## Main Conference Schedule

**Dec. 9, 2009**

<p><b>Session 1 : Peer-to-peer I</b> 9th Dec- 11:00-12:30 <i>Session chair : Hung-Chang Hsiao, National Cheng Kung University, Taiwan</i></p>	<p><b>Session 2 : Parallel Computing with GPU</b> 9th Dec- 11:00-12:30 <i>Session chair : Henning Meyerhenke, University of Paderborn, Germany</i></p>	<p><b>Session 3 : Cluster Network</b> 9th Dec- 11:00-12:30 <i>Session chair : Guihai Chen, Nanjing University, China</i></p>
<p><b>Prediction-Based Prefetching to Support VCR-like Operations in Gossip-Based P2P VoD Systems</b>, Tianyin Xu, Weiwei Wang, Baoliu Ye, Wenzhong Li, Sanglu Lu, and Yang Gao</p> <p><b>Quality of Service in Peer-to-Peer IPTV Networks</b>, Xiaosong Lou, Kai Hwang, and Gaogang Xie</p> <p><b>Decentralized Adaptive Routing for Reliability in Event Broker Networks</b>, Shruti P. Mahambre and Umesh Bellur</p>	<p><b>On the Robust Mapping of Dynamic Programming onto a Graphics Processing Unit</b>, Shucaï Xiao, Ashwin M. Aji, and Wuchun Feng</p> <p><b>CUDA Accelerated LTL Model Checking</b>, Jiří Barnat, Luboš Brim, Milan Češka, and Tomáš Lamr</p> <p><b>Improving Performance of Matrix Multiplication and FFT on GPU</b>, Xiang Cui, Yifeng Chen, and Hong Mei</p>	<p><b>Flexible Multi-link Ethernet Binding System for PC Clusters with Asymmetric Topology</b>, Taiga Yonemoto, Shin'ichi Miura, Toshihiro Hanawa, Taisuke Boku, and Mitsuhsa Sato</p> <p><b>Evaluation of ConnectX Virtual Protocol Interconnect for Data Centers</b>, Ryan E. Grant, Ahmad Afsahi, and Pavan Balaji</p> <p><b>uStream: A User-Level Stream Protocol over Infiniband</b>, Yao Lin, Jizhong Han, Jinjun Gao, and Xubin He</p>

<p><b>Session 4 : Mobile and Sensor Computing I</b> 9th Dec - 14:00-16:00 <i>Session chair : Bin Xiao, Hong Kong Polytechnic University, Hong Kong</i></p>	<p><b>Session 5 : Novel Memory Systems</b> 9th Dec - 14:00-16:00 <i>Session chair : Antonia Zhai, University of Minnesota, USA</i></p>	<p><b>Session 6 : Resource Management and Load Balancing</b> 9th Dec - 14:00-16:00 <i>Session chair : Yingwen Song, AIST, Japan</i></p>
<p><b>WormCircle: Connectivity-Based Wormhole Detection in Wireless Ad Hoc and Sensor Networks</b>, Dezun Dong, Mo Li, Yunhao Liu, and Xiangke Liao</p> <p><b>Broadcasting with Optimized Transmission Efficiency in 3-Dimensional Wireless Networks</b>, Yung-Liang Lai, Jehn-Ruey Jiang</p> <p><b>Contour-cast: Location-free Data Dissemination and Discovery for Wireless Sensor Networks</b>, Zhigang Li, Nong Xiao, Yunhao Liu, and Xue Liu</p> <p><b>Optimizing Base Station Deployment in Wireless Sensor Networks Under One-hop and Multi-hop Communication Models</b>, Yunyue Lin, Qishi Wu, Xiaoshan Cai, and Nageswara S.V. Rao</p>	<p><b>Minimizing Memory Access Schedule for Memories</b>, Jingtong Hu, Chun Jason Xue, Wei-Che Tseng, Meikang Qiu, Yingchao Zhao, and Edwin H.-M. Sha</p> <p><b>When Misses Differ: Investigating Impact of Cache Misses on Observed Performance</b>, Vlastimil Babka, Lukáš Marek, and Petr Tůma</p> <p><b>A Light-weight Code Cache Design for Dynamic Binary Translation</b>, Wei Chen, Li Shen, Hongyi Lu, Zhiying Wang, and Nong Xiao</p> <p><b>Snooping and Ordering Ring - An Efficient Cache Coherence Protocol for Ring Connected CMP</b>, Fei Cao and Zhiyong Liu</p>	<p><b>Feedback-Control-Based Performance Regulation for Multi-Tenant Applications</b>, Hailue Lin, Kai Sun, Shuan Zhao, and Yanbo Han</p> <p><b>Allocation of Clients to Multiple Servers on Large Scale Heterogeneous Platforms</b>, Olivier Beaumont, Lionel Eyraud-Dubois, Hejer Rejeb, and Christopher Thraves</p> <p><b>Dynamic Load Balancing for Parallel Numerical Simulations Based on Repartitioning with Disturbed Diffusion</b>, Henning Meyerhenke</p> <p><b>Market-Based Load Balancing for Distributed Heterogeneous Multi-Resource Servers</b>, Chih-Chiang Yang, Kun-Ting Chen, Chien Chen, and Jing-Ying Chen</p>

<p><b>Session 7 : Mobile and Sensor Computing II</b> 9th Dec - 16:30-18:30 <i>Session chair : Beihong Jin, Institute of Software, CAS</i></p>	<p><b>Session 8 : Multicore</b> 9th Dec - 16:30-18:30 <i>Session chair : Yu Chen, Tsinghua University, China</i></p>	<p><b>Session 9: Algorithms &amp; Applications</b> 9th Dec - 16:30-18:30 <i>Session chair : Jan-Jan Wu, Academia Sinica, Taiwan</i></p>
<p><b>A Decentralized Storage Scheme for Multi-Dimensional Range Queries over</b></p>	<p><b>An Improved Parallel Access Technology on Routing Table for Threaded BGP</b>, Gao Lei, Lai</p>	<p><b>A Novel Optimization Method to Improve De-duplication Storage</b></p>

<p><b>Sensor Networks</b>, Lei Xie, Lijun Chen, Daoxu Chen, and Li Xie</p> <p><b>Polygon-Based Tracking Framework in Surveillance Wireless Sensor Networks</b>, Md. Zakirul Alam Bhuiyan, Guojun Wang, and Jie Wu</p> <p><b>Constructing Optimal Clustering Architecture for Maximizing Lifetime in Large Scale Wireless Sensor Networks</b>, Huan Li, Jierui Cao, and Junwu Xiong</p> <p><b>CCQR: Constant Cost Quality-based Routing Protocol in Delay Tolerant Networks</b>, Tao Li, Chao Dong, and Guihai Chen</p>	<p>Mingche, and Gong Zhenghu</p> <p><b>Exploiting TLS Parallelism at Multiple Loop-Nest Levels</b>, Venkatesan Packirisamy and Antonia Zhai</p> <p><b>Modeling Data Access Contention in Multicore Architectures</b>, Surendra Byna, Xian-He Sun, and Don Holmgren</p> <p><b>Towards High-Performance Network Intrusion Prevention System on Multi-core Network Services Processor</b>, Xiang Wang, Yaxuan Qi, Baohua Yang, Yibo Xue, and Jun Li</p>	<p><b>System Performance</b>, Chuanyi Liu, Yibo Xue, Dapeng Ju, and Dongsheng Wang</p> <p><b>Scalability of Macroblock-level Parallelism for H.264 Decoding</b>, Mauricio Alvarez Mesa, Alex Ramírez, Arnaldo Azevedo, Cor Meenderinck, Ben Juurlink, and Mateo Valero</p> <p><b>A Cache-Efficient Parallel Gauss-Seidel Solver with Alternating Tiling</b>, Peng Di, Jingling Xue, Changjun Hu, and Jingjing Zhou</p> <p><b>Optimizing End-to-end Performance of Distributed Applications with Linear Computing Pipelines</b>, Yi Gu, Qishi Wu, Anne Benoit, and Yves Robert</p>
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## Dec. 10, 2009

<b>Session 10 : Network Processor</b> 10th Dec - 14:00-15:30 Session chair : <i>Chuan Wu, University of Hong Kong</i>	<b>Session 11 : GPU Programming</b> 10th Dec - 14:00-15:30 Session chair : <i>Xipeng Shen The College of William and Mary, USA</i>	<b>Session 12 : Interconnection Network</b> 10th Dec - 14:00-15:30 Session chair : <i>Hovhannes Harutyunyan Concordia University, Canada</i>
<p><b>DBS: A Bit-level Heuristic Packet Classification Algorithm for High Speed Network</b>, Baohua Yang, Xiang Wang, Yibo Xue, and Jun Li</p> <p><b>Network Interface Architecture for Scalable Message Queue Processing</b>, Noboru Tanabe, Atsushi Ohta, Pulung Waskito, and Hironori Nakajo</p> <p><b>Field-Based Branch Prediction for Packet Processing Engines</b>, David Bermingham, Zhen Liu, Xiaojun Wang, and Bin Liu</p>	<p><b>RankBoost Acceleration on both NVIDIA CUDA and ATI Stream Platforms</b>, Bo Wang, Tianji Wu, Feng Yan, Ruirui Li, Ningyi Xu, and Yu Wang</p> <p><b>Program Optimization of Array-Intensive SPEC2k Benchmarks on Multithreaded GPU Using CUDA and Brook+</b>, Guibin Wang, Tao Tang, Xudong Fang, and Xiaoguang Ren</p> <p><b>Optimal Data Distribution for Versatile Finite Impulse Response Filtering on Next-Generation Graphics Hardware Using CUDA</b>, Patrik Goorts, Sammy Rogmans, and Philippe Bekaert</p>	<p><b>Pancyclicity and Panconnectivity in Augmented k-ary n-cubes</b>, Yonghong Xiang and Iain A. Stewart</p> <p><b>A Fault-Free Unicast Algorithm in Twisted Cubes with the Restricted Faulty Node Set</b>, Jianxi Fan, Shukui Zhang, Xiaohua Jia, and Guangquan Zhang</p> <p><b>Routing, Broadcasting, Prefix Sums, and Sorting Algorithms on the Arrangement Graph</b>, Yifeng Li and Ke Qiu</p>

<b>Session 13 : Virtual Machines</b> 10th Dec - 16:00-18:00 Session chair : <i>Chung-Ta King, National Tsinghua University, Taiwan</i>	<b>Session 14 : Networks and Novel Applications</b> 10th Dec - 16:00-18:00 Session chair : <i>Huan Li, Beihang University, China</i>	<b>Session 15 : Scheduling I</b> 10th Dec - 16:00-18:00 Session chair : <i>Jason Xue, City University of Hong Kong, Hong Kong</i>
<p><b>A Functional Classification Based Inter-VM Communication Mechanism with Multi-core Platform</b>, Cheng Luo, Yuebin Bai, Ting Chen, Cong Xu, and Liang Zhang</p>	<p><b>ERN: Emergence Rescue Navigation with Wireless Sensor Networks</b>, Shen Li, Andong Zhan, Xiaobing Wu, and Guihai Chen</p> <p><b>Traffic-Known Urban Vehicular Route Prediction Based on Partial Mobility</b></p>	<p><b>An Evaluation of Communication Factors on an Adaptive Control Strategy for Job Co-allocation in Multiple HPC Clusters</b>, Jinhui Qin and Michael A. Bauer</p>

<p><b>PaS: A Preemption-aware Scheduling Interface for Improving Interactive Performance in Consolidated Virtual Machine Environment</b>, Yubin Xia, Chun Yang, and Xu Cheng</p> <p><b>CFS Optimizations to KVM Threads on Multi-Core Environment</b>, Wei Jiang, Yisu Zhou, Yan Cui, Wei Feng, Yu Chen, Yuanchun Shi, and Qingbo Wu</p> <p><b>Optimizing Inter-Domain Communication</b>, Hongyong Zang, Yuzhong Sun, and Kuiyan Gu</p>	<p><b>Patterns</b>, Guangtao Xue, Zhongwei Li, Hongzi Zhu, and Yunhui Liu</p> <p><b>An Optimized String Transformation Algorithm for Real-Time Group Editors</b>, Bin Shao, Du Li, and Ning Gu</p> <p><b>Modified Simultaneous Algebraic Reconstruction Technique and its Parallelization in Cryo-electron Tomography</b>, Xiaohua Wan, Fa Zhang, and Zhiyong Liu</p>	<p><b>Real-time Task Assignment with Replication on Multiprocessor Platforms</b>, Jian (Denny) Lin and Albert M.K. Cheng</p> <p><b>A Heuristic Energy-aware Scheduling Algorithm for Heterogeneous Clusters</b>, Yu Li, Yi Liu, and Depei Qian</p> <p><b>Data-bandwidth-aware Job Scheduling in Grid and Cluster Environments</b>, De-Yu Chen, Jan-Jan Wu, and Pangfeng Liu</p>
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## Dec. 11, 2009

<p><b>Session 16 : Peer-to-Peer II</b> 11th Dec - 10:30-12:30 Session chair : Pangfeng Liu, National Taiwan University, Taiwan</p>	<p><b>Session 17 : Cluster and Cloud Systems</b> 11th Dec - 10:30-12:30 Session chair : Stéphane Genaud, INRIA Nancy, France</p>	<p><b>Session 18 : Power Management</b> 11th Dec - 10:30-12:30 Session chair : Meikang Qiu, University of Kentucky, USA</p>
<p><b>Efficient Update Propagation by Speculating Replica Locations on Peer-to-Peer Networks</b>, Ai Hayakawa, Masato Asahara, Kenji Kono, and Toshinori Kojima</p> <p><b>A Study of Group Size Effects on a Hybrid P2P System</b>, Ping-I Chou and Pangfeng Liu</p> <p><b>Papnet: A Proximity-aware Alphanumeric Overlay Supporting Ganesan</b> <b>On-Line Load Balancing</b>, Martin Raack, Dominic Battré, André Höing, and Odej Kao</p> <p><b>Towards Keyword Search over Relational Databases in DHT Networks</b>, Jian Yu, Jihong Guan, Jianliang Xu, and Shuigeng Zhou</p>	<p><b>Reliable Software Distributed Shared Memory Using Page Migration</b>, Jinpil Lee and Mitsuhisa Sato</p> <p><b>MPI-NeTSim: A Network Simulation Module for MPI</b>, Brad Penoff, Alan Wagner, Michael Tüxen, and Irene Rüngeler</p> <p><b>Accelerating MapReduce with Distributed Memory Cache</b>, Shubin Zhang, Jizhong Han, Zhiyong Liu, Kai Wang, and Shengzhong Feng</p> <p><b>Quantification of Security for Compute Intensive Workloads in Clouds</b>, Junaid Arshad, Paul Townend, and Jie Xu</p>	<p><b>Energy-Efficient Sensor Data Acquisition Based on Periodic Patterns</b>, Guan-Rong Lin, Yao-Chung Fan, En Tzu Wang, Tao Zou, and Arbee L.P. Chen</p> <p><b>tk-coverage: Time-Based K-Coverage for Energy Efficient Monitoring</b>, Zheng Yang, Bin Xu, Saier Ye, and Baijian Yang</p> <p><b>Energy Minimization and Latency Hiding for Heterogeneous Parallel Memory</b>, Meikang Qiu, Gang Wu, Chun Jason Xue, Jingtong Hu, Wei-Che Tseng, and Edwin H.-M. Sha</p> <p><b>A Power-Aware Routing Protocol with Signal Strength Variation in Mobile Ad Hoc Networks</b>, Chuan-Chi Weng and Ching-Wen Chen</p>

<p><b>Session 19 : SoC and Embedded Systems</b> 11th Dec - 14:00-16:00 Session chair : Zili Shao, Hong Kong Polytechnic University, Hong Kong</p>	<p><b>Session 20 : Security and Trust Computing</b> 11th Dec - 14:00-16:00 Session chair : Zhenkai Liang, National University of Singapore, Singapore</p>	<p><b>Session 21 : Performance Evaluation &amp; Modeling</b> 11th Dec - 14:00-16:00 Session chair : Shengzhong Feng, Shenzhen Institute of Advanced Technology, China</p>
<p><b>Multiprocessor System-on-Chip Profiling Architecture: Design and Implementation</b>, Po-Hui Chen, Chung-Ta King, Yuan-Ying Chang, and Shau-Yin Tseng</p> <p><b>Exploiting Parallelism through High</b></p>	<p><b>34 -Partitioned Computation to Accelerate Scalar Multiplication for Elliptic Curve Cryptosystems</b>, Keke Wu, Dawei Li, Huiyun Li, Tingding Chen, and Fengqi Yu</p> <p><b>DVM-MAC: A Mandatory Access Control System in Distributed Virtual Computing</b></p>	<p><b>Early Performance Evaluation of Dawning 5000A and DeepComp 7000</b>, Yuan Yu, Yunquan Zhang, Ting Wang, Jiachang Sun, Xianyi Zhang Yuxin Tang, and Li Rao</p> <p><b>Understanding Network Saturation</b></p>

<p><b>Level Optimization on a Heterogeneous Multicore SoC</b>, Ming Yan, Peng Zhao, Ziyu Yang, and Sikun Li</p> <p><b>An Application Mapping Scheme over Distributed Reconfigurable System</b>, Chao Wang, Lianghua Miao, Bin Xie, and Tianzhou Chen</p> <p><b>Speculation with Little Wasting: Saving Cost in Software Speculation through Transparent Learning</b>, Yunlian Jiang, Feng Mao, and Xipeng Shen</p>	<p><b>Environment</b>, Deqing Zou, Lei Shi, and Hai Jin</p> <p><b>Is Straight-line Path Always the Best for Intrusion Detection in Wireless Sensor Networks</b>, Yun Wang, Yoon Kah Leow, and Jun Yin</p> <p><b>Privacy Reference Monitor – A Computer Model for Law Compliant Privacy Protection</b>, Fei Xu, K.P. Chow, Jingsha He, and Xu Wu</p>	<p><b>Behavior on Large-Scale Blue Gene/P Systems</b>, Pavan Balaji, Harish Naik, and Narayan Desai</p> <p><b>Providing Responsiveness Requirement Based Consistency in DVE</b>, Wei Zhang, Hangjun Zhou, Yuxing Peng, and Sikun Lii</p> <p><b>A Population Dynamics Model for Data Streaming over P2P Networks</b>, Jialing Xu, Guang-Hua Yang, and Victor O.K. Li</p>
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<b>Session 22 : Innovative Systems and Tools</b> 11th Dec - 16:30-18:00 <i>Session chair : K.P. Chow, University of Hong Kong</i>	<b>Session 23 : Ubiquitous Networking</b> 11th Dec - 16:30-18:00 <i>Session chair : Joshua Huang, University of Hong Kong</i>	<b>Session 24 : Scheduling II</b> 11th Dec - 16:30-18:00 <i>Session chair : Yanmin Zhu, Shanghai Jiaotong University</i>
<p><b>JOR: A Journal-guided Reconstruction Optimization for RAID-Structured Storage Systems</b>, Suzhen Wu, Dan Feng, Hong Jiang, Bo Mao, Lingfang Zeng, and Jianxi Chen</p> <p><b>A Parallel SystemC Environment: ArchSC</b>, Hao Ziyu, Qian Lei, Li Hongliang, Xie Xianghui, and Zhang Kun</p> <p><b>A Hybrid Parallel Framework for the Cellular Potts Model Simulations</b>, Kejing He, Yi Jiang, and Shoubin Dong</p>	<p><b>E-TCP: Enhanced TCP for IEEE802.11e Mobile Ad Hoc Networks</b>, Consolée Mbarushimana and Ali Shahrabi</p> <p><b>SCN4M-DL: An Adaptive Directory-Less Service Discovery System for MANETs</b>, Haibin Weng, Yuanfeng Wen, Beihong Jin, and Biao Zhang</p> <p><b>Queuing Based Traffic Model for Wireless Mesh Networks</b>, Yunxia Feng, Xingfa Shen, Zhigang Gao, and Guojun Dai</p>	<p><b>Implementation of the AdaBoost Algorithm for Large Scale Distributed Environments: Comparing JavaSpace and MPJ</b>, Virginie Galtier, Stéphane Genaud, and Stéphane Vialle</p> <p><b>A Tabu Search for the Heterogeneous DAG Scheduling Problem</b>, Yi Wen Wong, Rick Siow Mong Goh, Shyh-Hao Kuo, and Malcolm Yoke Hean Low</p> <p><b>Double-layer Scheduling Strategy of Load Balancing in Scientific Workflow</b>, Yan Ma and Bin Gong</p>

# Workshops Schedule

Date: December 8, 2009

Location	Room: Rome	Room: Vancouver	Room: Moscow	Room: Sydney
	<b>P2P-NVE-09 I</b> <b>Session 1: P2P Networked Virtual Environments</b> <i>Chair: Prof. Hung-Chang Hsiao, National Cheng Kung University, Taiwan</i>	<b>iVCE-09 I</b> <i>Chair: Prof. Ji Wang, National Laboratory for Parallel and Distributed Processing, China</i>	<b>IWACI-09 I</b> <b>Session 1: Modern Cyberinfrastructure Architecture</b> <i>Chair: Dr. Lei Zhou, Shanghai University, China</i>	<b>PMAC-2WN-09 I</b> <i>Chair: Ali Shahrabi, Glasgow Caledonian University, UK</i>
09:00-10:30	<p><b>A Supply-and-Demand Model for On-Demand Streaming in Networked Virtual Environments</b>, Shih-Cheng Fang, Chung-Ta King, Chiu-Ping Chang, and Wen-Nan Wang</p> <p><b>Group-Based Peer-to-Peer 3D Streaming Authentication</b>, Mo-Che Chan, Jehn-Ruey Jiang, Chao-Wei Hung, and Wei</p>	<p><i>Keynote 1: Service and Cloud computing, Jie Xu</i></p> <p><i>Keynote 2: iVCE: Concept Model, Architecture, and Practice, Huaimin Wang</i></p> <p><b>A Service-oriented</b></p>	<p><b>Experiences Running OGSA-DQP Queries against a Heterogeneous Distributed Scientific Database</b>, Helen X. Xiang</p> <p><b>Cyberinfrastructure on Tumor Gene Expression Data Processing</b>, Wenjun Lu, Yue Wu, Zongtian Liu, Qing Li, and Xiangfeng Luo</p> <p><b>Towards Hybrid Grid</b></p>	<p><b>A Transmit Antenna Selection for MIMO Wireless Ad-Hoc Networks in Lossy Environment</b>, Yindong Zhang, Liusheng Huang, Hongli Xu, and Xueyong Xu</p> <p><b>BER Performance Evaluation of Tail-Biting Convolution Coding Applied to</b></p>

	Tsang Ooi  <b>Evaluation of the HyperVerse Avatar Management Scheme Based on the Analysis of Second Life Traces</b> , Markus Esch, Wei Tsang Ooi, and Ingo Scholtes	<b>Programming Platform for Internet-Based Virtual Computing Environment</b> , Donggang Cao, Zan Xiao, and Weizhong Shao	<b>Infrastructure for Large Simulations</b> , Dan Chen and Congcong Bian  <b>Towards a Scalable Real-Time Cyberinfrastructure for Online Computer Games</b> , Sergei Gorlatch, Frank GlinKa, and Alexander Ploss	<b>Companded QPSK Mobile WiMax</b> , Brian G. Stewart and Athinarayanan Vallavaraj  <b>Broadcasting in Fully Connected Trees</b> , Hovhannes Harutyunyan and Edward Maraachlian
10:30-11:00	<b>Break</b>			
11:00-12:30	<b>P2P-NVE-09 II Session 2: Efficient P2P Overlays</b> Chair: Ms. Ying Qiao, University of Ottawa, Canada	<b>iVCE-09 II</b> Chair: Dr. Jin Cao, Beihang University, China	<b>IWACI-09 II Session 2: High Performance Computing and Services</b> Chair: Dr. Ping Yang, Chinese University of Hong Kong, China	<b>PMAC-2WN-09 II</b> Chair: B. Stewart, Glasgow Caledonian University, UK
	<b>Optimizing Unstructured Peer-to-Peer Overlays with Topology Awareness</b> , Hao Liao, Po-Shen Yeh, and Hung-Chang Hsiao  <b>Anadem: A Hybrid Overlay Network for Content-Based Data Distribution</b> , Zheng Zhong and Wang Yi-Jie  <b>A Replica Placement Algorithm for Hybrid CDN-P2P Architecture</b> , Hai Jiang, Zhan Wang, Albert K. Wong, Jun Li, and Zhongcheng Li  <b>Measuring the Influence of Active Measurement on Unstructured Peer-to-Peer Network</b> , Ying Sha, Zhibin Zhang, and Jianlong Tan	<b>Mobility of Internet-Based Virtual Computing Environment</b> , Siqi Shen, Ji Wang, Rui Shen, Shengdong Zhang, and Pei Fan  <b>Performance under Failure of Multi-tier Web Services</b> , Bing Xie, Yong Chen, Xian-He Sun, and Hui Jin  <b>A Peer-to-Peer Media Streaming System Based on iVCE Platform</b> , Jiqing Wu, Yuxing Peng, and Rui Shen  <b>Measurement and Analysis of BitTorrent Availability</b> , Lin Ye, Hongli Zhang, Wei-zhe Zhang, and Jian Tan	<b>Association Link Network: An Incremental Semantic Data Model on Organizing Web Resources</b> , Zheng Xu, Xiangfeng Luo, and Wenjun Lu  <b>A Case of Parallel EEG Data Processing upon a Beowulf Cluster</b> , Yufeng Yao, Jinyi Chang, and Kaijian Xia  <b>A Fast and Intelligent Resource Allocation Service for Service-Oriented Grid</b> , Zhao Guopeng, Shen Zhiqi, and Miao Chunyan  <b>A Symmetric Matchmaking Engine for Web Service Composition</b> , Sizhe Sun, Xinhuai Tang, Xiaozhou Yuan, and Delai Chen	<b>Evaluation of a Performance Prediction Tool for Peer-to-Peer Distributed Computing Applications</b> , Julien Bourgeois, Jean-Baptiste Ernst-Desmulier, and François Spies  <b>Comparing Methods for the Efficient Analysis of PEPA Models of Non-repudiation Protocols</b> , Yishi Zhao and Nigel Thomas  <b>Detection of Conjunctive Stable Predicates in Dynamic Systems</b> , Xinli Wang, Jean Mayo, Guy Hembroff, and Chunming Gao
12:30-14:00	<b>Lunch</b>			
14:00-16:00	<b>P2P-NVE-09 III Session 3: P2P Technologies</b> Chair: Mr. Markus Esch, University of Luxembourg, Luxembourg	<b>iVCE-09 III</b> Chair: Dr. Dongsheng Li, National Laboratory for Parallel and Distributed Processing, China	<b>IWACI-09 III Session 3: Design Tools, Performance Modeling, Systems Software</b> Chair: Dr. Cheng Fu, Nanyang Technological University, Singapore	<b>MCSS-09 I</b>
	<b>iRank: Supporting Proximity Ranking for Peer-to-Peer Applications</b> , Yongquan Fu and Yijie Wang  <b>A Diffusive Load Balancing Scheme for Clustered Peer-to-Peer Systems</b> , Ying Qiao and Gregor v. Bochmann  <b>Cowtra: A COntribution Willingness-Based Two-</b>	<b>A Forwarding-Based Task Scheduling Algorithm for Distributed Web Crawling over DHTs</b> , Xiao Xu, Wei-Zhe Zhang, Hong-Li Zhang, Bin-Xing Fang, and Xin-Ran Liu  <b>A Steady Network Coordinate System for Network Distance Estimating</b> , Yifei Zhang and	<b>Extending POP-C++ to Integrate Web Services into Parallel Objects</b> , Thanh-Nguyen Ngo, Tuan-Anh Nguyen, and Tran Van Hoai  <b>Sequential Pattern Mining in Data Streams Using the Weighted Sliding Window Model</b> , Chuan Xu, Yong Chen, and Rongfang Bie  <b>SPBCA: Semantic Pattern-</b>	<b>Adaptive Multi-versioning for OpenMP Parallelization via Machine Learning</b> , Xuan Chen and Shun Long  <b>Parallel Lexicographic Names Construction with CUDA</b> , Weidong Sun and Zongmin Ma  <b>Count Sort for GPU Computing</b> , Weidong Sun

	<p><b>phase Bandwidth Resource Allocation Algorithm in P2P Network</b>, Cai Chen, Sen Su, Kai Shuang, and Fangchun Yang</p>	<p>Hongli Zhang</p> <p><b>HyperSpring: Accurate and Stable Latency Estimation in the Hyperbolic Space</b>, Yongquan Fu and Yijie Wang</p> <p><b>Using Grid Middleware to Query a Heterogeneous Distributed Version of the SDSS Database</b>, Helen X. Xiang</p> <p><b>A User-Level Remote Paging System for Grid Computing</b>, Tyng-Yeu Liang, Po-Sen Wang, Po-Jen Lo, and Jin-An Huang</p>	<p><b>Based Context-Aware Middleware</b>, Xiao Ming Zhou, Xinhuai Tang, Xiaozhou Yuan, and Delai Chen</p> <p><b>The Vulnerability Analysis Framework for Java Bytecode</b>, Tang Hong, Chen Hua, Zhao Gang, Liu Qiang, and Zhao jinjin</p> <p><b>Research on Technologies of Building Experimental Environment for Network Worm Simulation</b>, Huang Minhuan, Kuang Xiaohui, Wen Yan, Tang Hong, and Xu Fei</p>	<p>and Zongmin Ma</p> <p><b>Low Overhead Object Communication Scheme in CMP Implementation of Object-Oriented Programming</b>, Licheng Xue and Feng Shi</p>
16:00-16:30	<b>Break</b>			
16:30-18:30		<b>iVCE-09 IV</b> <i>Chair: Donggang Cao, Peking University, China</i>		<b>MCSS-09 II</b>
		<p><b>A Virtual Machine Server Aggregation Algorithm Based on Hierarchical Clustering</b>, Feng Huang and DongSheng Li</p> <p><b>Enhancing Reliability for Virtual Machines via Continual Migration</b>, Wenchao Cui, Dianfu Ma, Tianyu Wo, and Qin Li</p> <p><b>Creating Virtual Networks for Distributed Virtual Computing Environment</b>, Dongsheng Li, Yixin Chen, and Feng Huang</p> <p><b>A Runtime Reputation Based Grid Resource Selection Algorithm on the Open Science Grid</b>, Zhengxiong Hou, Xingshe Zhou, Mike Wilde, Jianhua Gu, and Mihael Hategan</p> <p><b>GOS Security: Design and Implementation</b>, Lin Yu, Li Zha, Xiaoning Wang, Haojie Zhou, and Yongqiang Zou</p>		<p><b>(Invited Talk) Challenges of Multi-core Computings Based on CBE and CUDA</b>, Yingwen Song</p> <p><b>Solving 2D Nonlinear Unsteady Convection-Diffusion Equations on Heterogenous Platforms with Multiple GPUs</b>, Canqun Yang, Zhen Ge, Juan Chen, Feng Wang, and Yunfei Du</p> <p><b>A Process Fusion Approach for MPI Performance Enhancement on Multi-core Systems</b>, Li Lu and Xiaoge Wang</p> <p><b>Domain-specific Pattern Matching Based Automatic Parallelization: Demonstrated by 2-D Prestack Migration</b>, Zhen Cao, Yuan Dong and Shengyuan Wang</p>