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# Network and Parallel Computing

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Proceedings

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# Preface

The IFIP International Conference on Network and Parallel Computing is an international conference, aimed at providing an exciting platform and forum for researchers and developers from academia and industry to present their latest research in the field of parallel computing systems and applications.

This year NPC received 89 submissions from authors in 11 countries. The papers were reviewed by a 51-member Program Committee, with 26 members from USA, 9 from mainland China, and the rest from Canada, Hong Kong, Taiwan, Korea, Japan, UK, and France. Each paper received three to six reviews. Based on a total of 287 reviews, the Program Co-chairs accepted papers into two categories:

Select papers: 23 papers passed the most stringent selection. Each paper is up to 15 pages in the conference proceedings. The acceptance rate for select papers is 25.8%.

Regular papers: 11 additional papers are of sufficient publishable quality. Each paper is up to 10 pages.

For the main conference, we invited three distinguished speakers:

- Xiaodong Zhang (Ohio State University, USA): Building a Domain-Knowledge Guided System Software Environment to Achieve High Performance of Multicore Processors
- Huaimin Wang (National University of Defense Technology, China): Internet-Based Virtual Computing Environment
- Jesse Fang (Intel Labs, China)

One workshop was held in conjunction with the NPC 2010 conference: the International Workshop on Network on Chip (IWNoC 2010). The workshop was chaired by Huaxi Gu and Jiang Xu. The proceedings of the workshop are included in this volume.

We would like to thank all the authors of submitted papers for their work and their interest in the conference. We would like to express our sincere appreciation to all members of the Program Committee. Of the 296 reviews we assigned, 287 (97%) were completed. It was from these reviews that we identified a set of submissions that were clear, relevant, and described high-quality work in parallel systems and applications. Through these reviews hundreds of authors received objective and often detailed feedback from a diverse group of experts. In addition, we would like to thank the General Chairs Hai Jin and Jean-Luc Gaudiot and the Steering Committee members Kemal Ebcioglu and Guang Gao for their invaluable advice and guidance, as well as Alfred Hofmann and Ursula Barth of the LNCS editorial team for their prompt and patient response to our questions and requests. The conference proceedings would not have been possible without

the support of these individuals and organizations. At closing, it is our hope that all of these efforts have helped to improve and promote parallel-computing research in China, other Asian countries, the USA and beyond.

September 2010

Chen Ding  
Zhiyuan Shao  
Ran Zheng

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# Table of Contents

## Keynote Speech

Building a Domain-Knowledge Guided System Software Environment to Achieve High-Performance of Multi-core Processors . . . . .	1
<i>Xiaodong Zhang</i>	
Internet-Based Virtual Computing Environment . . . . .	2
<i>Huaimin Wang</i>	

## Session 1: Parallelization and Optimization

Vectorization for Java . . . . .	3
<i>Jiutao Nie, Buqi Cheng, Shisheng Li, Ligang Wang, and Xiao-Feng Li</i>	
Just-in-Time Compiler Assisted Object Reclamation and Space Reuse . . . . .	18
<i>Yu Zhang, Lina Yuan, Tingpeng Wu, Wen Peng, and Quanlong Li</i>	
Optimization of Triangular Matrix Functions in BLAS Library on Loongson2F . . . . .	35
<i>Yun Xu, Mingzhi Shao, and Da Teng</i>	
Exposing Tunable Parameters in Multi-threaded Numerical Code . . . . .	46
<i>Apan Qasem, Jichi Guo, Faizur Rahman, and Qing Yi</i>	
LU Decomposition on Cell Broadband Engine: An Empirical Study to Exploit Heterogeneous Chip Multiprocessors . . . . .	61
<i>Feng Mao and Xipeng Shen</i>	
FDTM: Block Level Data Migration Policy in Tiered Storage System . . .	76
<i>Xiaonan Zhao, Zhanhuai Li, and Leijie Zeng</i>	

## Session 2: Parallel Algorithms

Scale-Adaptable Recrawl Strategies for DHT-Based Distributed Web Crawling System . . . . .	91
<i>Xiao Xu, Weizhe Zhang, Hongli Zhang, and Binxing Fang</i>	
Power Efficient Scheduling for Hard Real-Time Systems on a Multiprocessor Platform . . . . .	106
<i>Peter J. Nistler and Jean-Luc Gaudiot</i>	



Storage Device Performance Prediction with Selective Bagging Classification and Regression Tree . . . . . 121  
*Lei Zhang, Guiquan Liu, Xuechen Zhang, Song Jiang, and Enhong Chen*

Embedding Algorithms for Bubble-Sort, Macro-Star, and Transposition Graphs . . . . . 134  
*HyeongOk Lee, Hyun Sim, JungHyun Seo, and Mihye Kim*

An Efficient Simulation Algorithm for Cache of Random Replacement Policy . . . . . 144  
*Shuchang Zhou*

DABGPM: A Double Auction Bayesian Game-Based Pricing Model in Cloud Market . . . . . 155  
*Shifeng Shang, Jinlei Jiang, Yongwei Wu, Zhenchun Huang, Guangwen Yang, and Weimin Zheng*

**Session 3: Network**

NPA-BT: A Network Performance Aware BitTorrent Traffic Optimization Mechanism . . . . . 165  
*Changyou Xing, Li Yang, and Ming Chen*

User Behavior Pattern Analysis and Prediction Based on Mobile Phone Sensors . . . . . 177  
*Jiqiang Song, Eugene Y. Tang, and Leibo Liu*

ServiceStore: A Peer-to-Peer Framework for QoS-Aware Service Composition . . . . . 190  
*Jun Jin, Yu Zhang, Yuanda Cao, Xing Pu, and Jiaxin Li*

Identifying Nearest Neighbor Nodes and Connectivity in Three-Dimensional Wireless Sensor Networks Using Poisson Point Field . . . . . 200  
*Yanhuai Qu, Jianan Fang, and Shuai Zhang*

A Novel Trust Evaluation Model for Mobile P2P Networks . . . . . 210  
*Xu Wu*

**Session 4: Parallelization and Optimization (Cluster)**

Evaluating and Optimizing I/O Virtualization in Kernel-Based Virtual Machine (KVM) . . . . . 220  
*Binbin Zhang, Xiaolin Wang, Rongfeng Lai, Liang Yang, Zhenlin Wang, Yingwei Luo, and Xiaoming Li*

Distributed Stream Processing with DUP .....	232
<i>Kai Christian Bader, Tilo Eißler, Nathan Evans, Chris GauthierDickey, Christian Grothoff, Krista Grothoff, Jeff Keene, Harald Meier, Craig Ritzdorf, and Matthew J. Rutherford</i>	
CCIndex: a Complemental Clustering Index on Distributed Ordered Tables for Multi-dimensional Range Queries .....	247
<i>Yongqiang Zou, Jia Liu, Shicai Wang, Li Zha, and Zhiwei Xu</i>	
Online Event Correlations Analysis in System Logs of Large-Scale Cluster Systems .....	262
<i>Wei Zhou, Jianfeng Zhan, Dan Meng, and Zhihong Zhang</i>	
Differentiated Replication Strategy in Data Centers .....	277
<i>Tung Nguyen, Anthony Cutway, and Weisong Shi</i>	
Efficient Pipelining Parallel Methods for Image Compositing in Sort-Last Rendering .....	289
<i>Wei Fang, Guangzhong Sun, Peng Zheng, Tiening He, and Guoliang Chen</i>	
<b>Session 5: GPU and Multicore</b>	
<i>memCUDA</i> : Map Device Memory to Host Memory on GPGPU Platform .....	299
<i>Hai Jin, Bo Li, Ran Zheng, Qin Zhang, and Wenbing Ao</i>	
Adaptive Line Size Cache for Irregular References on Cell Multicore Processor .....	314
<i>Qian Cao, Chongchong Zhao, Junxiu Chen, Yunxing Zhang, and Yi Chen</i>	
Software-Hardware Cooperative DRAM Bank Partitioning for Chip Multiprocessors .....	329
<i>Wei Mi, Xiaobing Feng, Jingling Xue, and Yaocang Jia</i>	
Energy-Efficient Scheduling of Real-Time Periodic Tasks in Multicore Systems .....	344
<i>Xiaodong Wu, Yuan Lin, Jian-Jun Han, and Jean-Luc Gaudiot</i>	
The Core Degree Based Tag Reduction on Chip Multiprocessor to Balance Energy Saving and Performance Overhead .....	358
<i>Long Zheng, Mianxiong Dong, Hai Jin, Minyi Guo, Song Guo, and Xuping Tu</i>	

**Session 6: Cloud and Grid Infrastructure**

Improve Throughput of Storage Cluster Interconnected with a TCP/IP Network Using Intelligent Server Grouping . . . . . 373  
*Xuechen Zhang, Guiquan Liu, and Song Jiang*

Evaluate the Performance and Scalability of Image Deployment in Virtual Data Center . . . . . 390  
*Kejiang Ye, Xiaohong Jiang, Qinming He, Xing Li, and Jianhai Chen*

A Resource Discovery Algorithm in Mobile Grid Computing Based on IP-Paging Scheme . . . . . 402  
*Yue Zhang and Yunxia Pei*

JAMILA: A Usable Batch Job Management System to Coordinate Heterogeneous Clusters and Diverse Applications over Grid or Cloud Infrastructure . . . . . 412  
*Juan Peng, Xiaoyi Lu, Boqun Cheng, and Li Zha*

User-Centric Privacy Preservation in Data-Sharing Applications . . . . . 423  
*Feng Gao, Jingsha He, and Shufen Peng*

Software Metrics Reduction for Fault-Proneness Prediction of Software Modules . . . . . 432  
*Yunfeng Luo, Kerong Ben, and Lei Mi*

**Session 7: Network on Chip**

A Methodology for Design of Unbuffered Router Microarchitecture for S-Mesh NoC . . . . . 442  
*Hao Liu, Feifei Cao, Dongsheng Liu, Xuecheng Zou, and Zhigang Zhang*

A Worst Case Performance Model for TDM Virtual Circuit in NoCs . . . . . 452  
*Zhipeng Chen and Axel Jantsch*

Convex-Based DOR Routing for Virtualization of NoC . . . . . 462  
*Guang Sun, Yuanyuan Zhang, Yong Li, Li Su, Depeng Jin, and Lieguang Zeng*

MPSoC Architecture-Aware Automatic NoC Topology Design . . . . . 470  
*Rachid Dafali and Jean-Philippe Diquet*

ERA: An Efficient Routing Algorithm for Power, Throughput and Latency in Network-on-Chips . . . . . 481  
*Varsha Sharma, Rekha Agarwal, Manoj S. Gaur, Vijay Laxmi, and Vineetha V.*

**Author Index** . . . . . 491