

## The Fourteenth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'13)

### PDCAT 2013 Conference Program

		Dec. 16	Dec. 17
08:00	09:00	Registration	Registration
09:00	09:30	Conference Opening Session	
09:30	10:30	Keynote Speech IB201 Muhammad Khurram Khan King Saud University Kingdom of Saudi Arabia	Keynote Speech IB201 Prof. Yan Yang, Southwest Jiaotong University, China
10:30	10:50	Break	Break
10:50	12:40	Session 1	Session 4
		<b>1A: 1,2,3,4(IB201)</b>	<b>4A:25,26,27,28(IB201)</b>
		<b>1B: 5,6,7,8(IB202)</b>	<b>4B:29,30,31,32(IB202)</b>
12:40	01:20	<b>LUNCH</b>	<b>LUNCH</b>
01:20	03:10	Session 2	Session 5
		<b>2A: 9,10,11,12(IB201)</b>	<b>5A: 33,34,35,36(IB201)</b>
		<b>2B: 13,14,15,16(IB202)</b>	<b>5B: 37,38,39,40(IB202)</b>
03:10	03:30	Break	Break
03:30	05:20	Session 3	Session 6
		<b>3A: 17,18,19,20(IB201)</b>	<b>6A: 41,42,43,44(IB201)</b>
		<b>3B: 21,22,23,24(IB202)</b>	<b>6B: 45,46,47,48(IB202)</b>
05:20	06:40	<b>Reception</b>	Break

		Dec. 18
08:00	09:00	Registration
09:00	10:00	Keynote Speech IB201 Prof. Hong Shen, University of Adelaide, Australia
10:00	10:20	Break
10:20	12:20	Session 7
		<b>7A: 49,50,51,52(IB201)</b>
		<b>7B: 53,54,55,56(IB202)</b>
12:20	13:20	<b>Lunch</b>
13:20	18:20	Excursion
18:20	21:00	Banquet

## SPEAKER REFERENCE:

*Speaker name in the list is bold and underline*

### December 16

**1A : 10:50 to 12:40 , Section Chair : Hong Shen,Beijing Jiaoton Univ. ,**

#### China

**1** Simulated-Annealing Load Balancing for Resource Allocation in Cloud Environments

**Zongqin Fan, Hong Shen Yanbo Wu, Yidong Li**

**2** Performance Analysis on The Assessment of Fingerprint Image Based on Blur Measurement

**Mohammed S. Khalil, Fajri Kurniawan**

**3** Efficient SVM Training Using Parallel Primal-Dual Interior Point Method on GPU

**Jing Jin, Xianggao Cai, Xiaola Lin**

**4** A DWT Based Perfect Secure and High Capacity Image Steganography Method

**Mohammad Reza Dastjani Farahani, Ali Pourmohammad**

**1B : 10:50 to 12:40 , Section Chair : Ling-Hua Chang Kun Shan**

#### University,Taiwan

**5** VDBSCAN+: Performance Optimization Based on GPU Parallelism

**Carlos Roberto Valêncio, Camila Alves de Medeiros, Guilherme Priólli Daniel, Adriano Mauro Cansian**

**6** Nested Atomic Sections with Thread Escape: An Operational Semantics

**Frédéric Dabrowski, Frédéric Loulergue, Thomas Pinsard**

**7** RDF Data Query and Management Method based on HBase and Structure Index in Railway Sensor Application

**Menglun Yang, Baopeng Zhang, Yidong Li**

**8** Amazing of Using ISG on Implementing a Web-Based System

**Ling-Hua Chang, Tung-Ho Shieh, Sanjiv Behl**

**2A : 01:20 to 03:10 , Section Chair : Chao-Tung Yang, Tunghai Univ. ,**

**Taiwan**

- 9** SimpleLock: Fast and Accurate Hybrid Data Race Detector  
**Misun Yu, Sang-Kyung Yoo, Doo-Whan Bae**
  
- 10** Improving Blocking Operation Support in Intel TBB  
**Jiri Dokulil, Siegfried Benkner, and Martin Sandrieser**
  
- 11** Noise Robustness Evaluation for Fallahpour's Audio Watermarking Method  
**Farzad Pahlavani, Ali Pourmohammad**
  
- 12** Implementation of a Cloud IaaS with Dynamic Resource Allocation Method Using OpenStack  
**Chao-Tung Yang, Yu-Tso Liu, Jung-Chun Liu, Chih-Liang Chuang, and Fuu-Cheng Chiang**

**2B : 01:20 to 03:10 , Section Chair : Gang PENG, Huizhou**

**University, China**

- 13** Automatic Knowledge Extraction Supported by Semantic Enrichment in Medical Records  
**Carlos Roberto Valêncio, Matheus Henrique Marioto, Rodrigo Dulizio Martins, Pedro Luiz Pizzigatti Corrêa**
  
- 14** Study on Quantum Parallel Processing by Adiabatic Quantum Computation in Simon Problem  
**Shigeru Nakayama, Peng Gang, Ichiro Iimura**
  
- 15** Using CUDA GPU to Accelerate the Ant Colony Optimization Algorithm  
**Kai-Cheng Wei, Chao-Chin Wu, Chien-Ju Wu**
  
- 16** Finding High Influence Vertices based on Candidate Set  
**Li Yang, Sha Ying, Shan Jixi, Jiang Bo**

**3A : 03:30 to 05:20 , Section Chair : Xiaoli Liu Chinese Academy of Sciences,China**

**17** DXRAM: A Persistent In-Memory Storage for Billions of Small Objects  
**Florian Klein , Michael Schöttner**

**18** CADM : a Centralized Administration and Dynamic Monitoring Framework for Network Intrusion Detection Based on Virtualization  
**Zhenquan Ding, Zhiyu Hao, Yongzheng Zhang,**

**19** cHPP controller: a high performance hyper-node hardware accelerator  
**Yong Su, FeiLong Liu, Zheng Cao, Zhan Wang, Xiaoli Liu, Ninghui Sun,**

**20** Multi-resolution Analysis on Traffic Matrix by Different Diffusion Operators,  
**Binze Zhong, Hui Tian**

**3B : 03:30 to 05:20 , Section Chair : Gang PENG, Huizhou University,China**

**21** An Ad-Hoc Method with Genetic Algorithm for Printed Circuit Board Assembly Optimization on the Sequential Pick-and-Place Machine  
**Gang PENG, Kehan ZENG**

**22** HRUL:A Hardware Assisted Recorder for User-Level Application  
**Shibin Tang, Fenglong Song, Lingjun Fan, Dongrui Fan, Zhiyong Liu,**

**23** Energy Analysis of Hadoop Cluster Failure Recovery  
**Weiyue Xu, Ying Lu,**

**24** Dynamics of a localized reputation-based network protocol  
**George Karakostas, Raminder Kharaud, Anastasios Viglas**

## December 17

**4A : 10:50 to 12:40 , Section Chair : Xinfeng Ye, The University of Auckland , New Zealand**

- 25** In-domain neighborhood approach to heterogeneous dynamic load balancing in real world network

**Eman Yasser Daraghmi, Shyan Ming Yuan**

- 26** Service Availability for Various Forwarded Descriptions with Dynamic Buffering on Peer-to-peer Streaming Networks

**Chow-Sing Lin, Jhe-Wei Lin and Meng-Jia Yan**

- 27** A Game Theory-based Approach to Service Rating

**Xinfeng Ye**

- 28** An Efficient Projective Rectification for Trinocular Stereo Vision

**Qing Zhu, Dan Luo**

**4B : 10:50 to 12:40 , Section Chair : Chao-Tung Yang, TungHai Univ. , Taiwan**

- 29** A Parallel Algorithm for 2D Square Packing

**Xiaofan Zhao and Hong Shen**

- 30** PLAR: Parallel Large-scale Attribute Reduction on Cloud Systems

**Junbo Zhang, Tianrui Li, Yi Pan**

- 31** Preserving Private Cloud Service Data Based on Hypergraph Anonymization

**Yuechuan Li, Yidong Li and Hong Shen**

- 32** Implementation of Data Transform Method into NoSQL Database for Healthcare Data

**Chao-Tung Yang, Jung-Chun Liu, Wen-Hung Hsu, Hsin-Wen Lu, and William Cheng-Chung Chu**

**5A : 01:20 to 03:10 , Section Chair : Carlos Roberto Valêncio, São Paulo State University, Brazil**

- 33** GBD IAAS Manager: A Tool for Managing Infrastructure-as-a-Service for Private and Hybrid Clouds  
**Carlos Roberto Valêncio, Andrielson Ferreira da Silva, Diogo Lemos Guimarães, Adriano Mauro Cansian**
- 34** Optimization of the HEFT algorithm for a CPU-GPU environment  
**Karan R. Shetti, Suhaib A. Fahmy, Timo Bretschneider**
- 35** The Storage System for a Multimedia Data Manager Kernel  
**Carlos Roberto Valêncio, Fábio Renato de Almeida, José Márcio Machado, Angelo Cesar Colombini, Leandro Alves Neves**
- 36** A Secure and Flexible Data Infrastructure for the VPH-Share Community  
**Siegfried Benkner, Chris Borckholder, Marian Bubaky, Yuriy Kaniovskiy, Piotr Nowakowski, Dario Ruiz Lopez and Steven Woodz**

**5B : 01:20 to 03:10 , Section Chair : Xiaojiang Du, Temple University, Philadelphia**

- 37** A New Efficient Random Key Revocation Protocol for Wireless Sensor Networks  
**Yi Jiang, Ruonan Zhang, Xiaojiang Du**
- 38** Privacy-Preserving Ranked Fuzzy Keyword Search over Encrypted Cloud Data  
**Qunqun Xu, Hong Shen, Yingpeng Sang, Hui Tian**
- 39** On Construction of an Intelligent Environmental Monitoring System for Healthcare  
**Chao-Tung Yang, Jung-Chun Liu, Chi-Jui Liao, Chia-Cheng Wu, Fang-Yie Leu**
- 40** A Locality-Aware Dynamic Thread Scheduler for GPGPUs  
**Yu-Hao Huang, Ying-Yu Tseng, Hsien-Kai Kuo, Ta-Kan Yen, Bo-Cheng Charles Lai**

**6A : 03:30 to 05:20 , Section Chair : M. M. Hafizur Rahman,**  
**International Islamic University Malaysia, Malaysia**

- 41** A Task Scheduling Algorithm for Multi-core Processors  
**Xuanxia Yao, Peng Geng, Xiaojiang Du**
- 42** Network-on-Chip Implementation of Midimew-Connected Mesh Network  
**Md Rabiul Awal and M. M. Hafizur Rahman**
- 43** MPHC: Privacy Preserving for Workflow Execution in Hybrid Clouds,  
**Shaghayegh Sharif, Javid Taheri, Surya Nepal**
- 44** Designing connected tours that almost cover a network  
**Khaled Almi'ani, Anastasios Viglas**

**6B : 03:30 to 05:20 , Section Chair : Chang-Huang Chen, Tungnan**  
**University, Taiwan**

- 45** A Variant of Unified Bare Bone Particle Swarm Optimizer  
**Chang-Huang Chen**
- 46** GROUP LEADER DOMINATED TEACHING-LEARNING BASED  
OPTIMIZATION  
**Chang-Huang Chen**
- 47** Connectivity of Wireless Ad Hoc Networks: Impacts of Antenna Models  
**Qiu Wang and Hong-Ning Dai and Qinglin Zhao**
- 48** Real Time Delta Extraction Based on Triggers to Support Data Warehousing  
**Carlos Roberto Valêncio, Matheus Henrique Marioto,**  
**Geraldo Francisco Donega Zafalon, José Márcio Machado**



## December 18

**7A : 10:20 to 12:20 , Section Chair : Wei-Mei Chen,National Taiwan Univ. of Science and Technology, Taiwan**

- 49** The management and optimization of queue state vector based on Multi-core processor  
**Wu Haitao, Xu Yakun**
- 50** Parallel Skyline Queries on Multi-Core Systems  
**Meng-Zong Liou, Yi-Teng Shu, and Wei-Mei Chen**
- 51** An Adaptive Image Enhancement Algorithm Based on Zone System  
**Shen-Chuan Tai, Chia-Ying Chang and Han-Ru Fan**
- 52** PHR: A Pipelined Heterogeneous Recovery for RAID6-Coded Storage Systems  
**Fang Niu, Yinlong Xu, Yunfeng Zhu, Yan Zhang**

**7B : 10:20 to 12:20 , Section Chair : Alexandre Duarte, Federal University of Paraiba, Brazil**

- 53** A Systematic Mapping Study on Fault Management in Cloud Computing  
**Clodoaldo Brasilino Leite Neto, Pedro Batista de Carvalho Filho and Alexandre Duarte**
- 54** Ten Years of Research on Fault Management in Grid Computing: a Systematic Mapping Study  
**Pedro Carvalho Filho, Clodoaldo Brasilino and Alexandre Duarte**
- 55** A Framework for Automated Software Testing on the Cloud  
**Gustavo Sávio de Oliveira, Alexandre Duarte**
- 56** A Scalable and Fault Tolerant Architecture to Provide Deaf Accessibility as a Service  
**Eduardo de Lucena Falcão, Tiago Maritan Ugulino de Araújo and Alexandre Duarte**