The 9th International Symposium on Distributed Computing and Applications To Business, Engineering & Science

Organizers: **Sponsors:**

Lingnan 嶺南大學 University
Hong Kong Institute of Business Studies

WUHAN University of Technology

Conference Venue: Lingnan University, Tuen Mun, New Territories, Hong Kong.

Conference Program

9 August 2010, Monday		**Venues:**
08:30-17:30	Check In	MBG11

10 August 2010, Tuesday

08:30-08:35 ***Welcome Remarks***

Prof T S Chan
Acting President and
Shun Hing Chair Professor of Marketing
Lingnan University

08:35-08:40 ***Opening Address***

Prof Qingping Guo
Chair of the Organizer Committee and
Professor of Wuhan University of Technology   MBG07

Keynote Speeches I
Chair: Prof Qingping Guo

08:40-09:25 Energy Efficient Resource Allocation in Large Scale Distributed Systems
Prof Albert Y Zomaya, The University of Sydney

09:25-10:10 On Thousands-core Scale Parallel Numerical Algorithms for Scientific Computing
Prof Jiachang Sun, Chinese Academy of Sciences

10:10-10:25 Coffee Break

Keynote Speeches II
Chair: Prof Choi-Hong Lai

10:25-11:05 Keynote Speech delivered by Hewlett Packard   MBG07

11:05-11:50 On the Modelling of Complex Systems - Methodologies and Applications
Dr. Nicholas Christakis, University of Crete Heraklion

10 August 2010, Tuesday

	Concurrent Session I Chair: Prof Albert Y Zomaya	Venue: MBG01	Concurrent Session VII Chair: Prof Choi-Hong Lai	Venue: MBG19
14:00-14:25	Design and Simulation of Human Conversational Model for Distributed Systems *Souheil Khaddaj*		High-Speed Modular Multipliers Based on a New Binary Signed-Digit Adder Tree Structure *Mingda Zhang and Shugang Wei*	
14:25-14:50	Parallel Computation of Surrogate Models for Potential Energy Surfaces *C T Kelley*		Batch Scheduler for Personal Multi-Core Systems *Simon Chong Wee See*	
14:50-15:15	Distributed Management of Scientific Workflows in SWIMS *Yan Leng*		Residue-Weighted Number Conversion with Moduli Set $\{2^p-1, 2^p+1, 2^{2p}+1, 2^p\}$ Using Signed-Digit Number Arithmetic *Changjun Jiang*	
15:15-15:40	Extending the Capabilities of Mobile Phones with Multi-Servers *Alan Lam*		On the Solution of Singular Systems by KRYLOV Subspace Methods *Man-Chung Yeung*	

15:40-15:55 Coffee Break

	Concurrent Session II Chair: Prof Souheil Khaddaj	Venue: MBG01	Concurrent Session VIII Chair: Prof Jingwen Cao	Venue: MBG19
15:55-16:20	Web-based Picture Archiving and Communication System for Medical Images *Alberto Pastrana Palma*		Sparse Matrix-Vector Multiplication Optimizations based on Matrix Bandwidth Reduction using NVIDIA CUDA *Shiming Xu*	
16:20-16:45	Study on Sand-dust Model Coupled with PSU/NCAR Mesoscale Model and Its Application in Northeast Asia *Jinrong Jiang*		Prediction of Water-quality based on Wavelet Transform using Vector Machine *Peijun Chen*	
16:45-17:10	ScGridBroker: An Open Grid Resource Scheduler based on Economic Scheduling Algorithms *Qianli Zhong*		Kernelized Fuzzy Fisher Criterion based Clustering Algorithm *Su-Qun Cao*	
17:10-17:35	Protein Sequence Predicted by Using Parallel CRF Method based on Backbone Angle *Shaoping Chen*		A Churn Model based on the Global Geographical Distribution of Nodes *Yun Li*	
17:35-18:00	The Implementation and Comparison of Two Kinds of Parallel Genetic Algorithm Using Matlab *Pengdong Gao*		A Parallel PCG Solver Based on OpenMP for Three-dimensional Heat Equation *Dandan Li*	

18:30 Conference Dinner
Venue: TBC

11 August 2010, Wednesday

	Concurrent Session III Chair: Prof Achilles Vairis	Venue: MBG01	*Concurrent Session IX* Chair: Prof Fahad Fazal Elahi Guraya	Venue: MBG19
08:00-08:25	Basket Option Pricing Using GP-GPU Hardware Acceleration *Craig C Douglas*		Predictive Saliency Maps for Surveillance Videos *Fahad Fazal Elahi Guraya*	
08:25-08:50	Semantics Enhanced Composition Planner for Distributed Resources *Yan Leng*		Locating the Centre Line of Paddle Vats for Cutting Wafer Images by Using Binary Segmentation *Meiqing Wang*	
08:50-09:15	Computational Modeling of Large Wildfires: A Roadmap *Janice Coen*		Algorithm on Contourlet Domain in Detection of Road Cracks for Pavement Images *Zhibiao Shu*	
09:15-09:40	Increasing Client Satisfaction: Request scheduling for Information Service *Qianli Zhong*		A High Performance Image-Spam Filtering System *Wen-Liang Tsao*	

09:40-09:55 Coffee Break

	Concurrent Session IV Chair: Prof Craig C Douglas	Venue: MBG01	*Concurrent Session X* Chair: Prof Meiqing Wang	Venue: MBG19
09:55-10:20	Modelling a knee ligament repair device *Achilles Vairis*		A Parallel Clustering Ensemble Algorithm for Intrusion Detection System *Hongwei Gao*	
10:20-10:45	Research on soil moisture sensor node and placement for distributed sensor network *Songhua Yan*		Large Space Fire Detection in Laboratory-scale based on Color Image Segmentation *Qiang Wang*	
10:45-11:10	Provision of QoS for Grid Enabled Service Oriented Architectures *Eric Oppong*		Potholes Detection Based on SVM in the Pavement Distress Image *Jin Lin*	
11:10-11:35	Parallel Algorithm and its Application of a Nonhydrostatic Semi-implicit Semi-Lagrangian Global Model *Xiangjun Wu*		Research on Moving Vehicle Detection in the Presence of Occlusion *Hengjun Yue*	
11:35-12:00	Parallel Implementation of Mesh Simplification on a Beowulf Cluster *Yongquan Lu*		Video Object Tracking Method Based on Normalized Cross-correlation Matching *Jian Wu*	

12:00-14:00 Lunch

	Concurrent Session V Chair: Prof Manfred Liebmann	Venue: MBG01	_Concurrent Session XI_ Chair: Prof Wenbao Xu	Venue: MBG19
14:00-14:25	A Brokerage Framework for Intelligent Resource Allocation in Distributed Systems _Veit H Nguyen_		Mobile Node Localization Algorithm in Wireless Sensor Networks for Intelligent Transportation Systems _Jie Luo_	
14:25-14:50	Large Scale Simulations of the Euler Equations on GPU Clusters _Manfred Liebmann_		Model of Traffic Path Choice based on Game theory and Induction Mechanism _Xinquan Li_	
14:50-15:15	Data Processing in Space Weather Physics Models in the Meridian Project _Sun-gen Deng_		A QoS Multicast Routing Algorithm Based on Genetic Algorithm of Game Selection _Niansheng Chen_	
15:15-15:40	On the Application of Educational Information Resource Base on Cloud Computing _Jiejing Cheng_		A Novel Speculative Multithreading Parallelization Method in Chip Multiprocessor Systems _Hongbin Yang_	

15:40-15:55 Coffee Break

	Concurrent Session VI Chair: Prof Veit H Nguyen	Venue: MBG01	_Concurrent Session XII_ Chair: Prof Alfred Loo	Venue: MBG19
15:55-16:20	Parallel M-tree Based on Declustering Metric Objects using K-medoids Clustering _Qiu Chu_		An Incomplete Information Game Routing Model for Wireless Multimedia Sensor Networks _Xiaoshan Guo_	
16:20-16:45	The Design and Implement of Memory Manager in STM _Ping Zhang_		The Autonomic Model in Remote Sensing Data Processing System _Ziyang Li_	
16:45-17:10	The Applications and Trends of High Performance Computing in Finance _Hong Li_		Study on the Model of Demand Forecasting Based on Artificial Neural Network _Ying Zhu_	
17:10-17:35	Parallel Model of Forecasting Killer Residence and Place of Crime _Jing Qu_		Design and Application of Banking Business Automatic Monitoring System Based on IPMSG _Jifang An_	
17:35-18:00	-		Future Innovation-oriented Development of Electronics and Information Industry Policy: Considering on the Basis of International Financial Crisis _Xuehua Bin_	

  End