The 4th International Conference on Frontier Computing

~ Theory, Technologies, and Applications ~

FC 2015

Bangkok, Thailand September 9-11, 2015

Organized by

Frontier Computing Conference Group

The 4th International Conference on Frontier Computing – Theory, Technologies, and Applications (FC 2015)	

Message from General Chairs

The International Conference on Frontier Computing – Theory, Technologies, and Applications (FC) was first proposed in early 2010 on an IET executive meeting. This conference series aims at providing an open forum to reach a comprehensive understanding to the recent advances and emergence in information technology, science, and engineering, with the themes in the scope of Communication Network Technology and Applications, Communication Network Technology and Applications, Business Intelligence and Knowledge Management, Web Intelligence, and any related fields that prompt the development of information technology. This will be the fourth event of the series, in which fruitful results can be found in the digital library or conference proceedings of FC 2010 (Taichung, Taiwan), FC 2012 (Xining, China), FC 2013 (Gwangju, Korea). Each event brings together the researchers worldwide to have excited and fruitful discussions as well as the future collaborations.

The papers accepted for inclusion in the conference proceeding primarily cover the topics: database and data mining, networking and communications, web and internet of things, embedded system, soft computing, social network analysis, security and privacy, optics communication, and ubiquitous/pervasive computing. Many papers have shown their great academic potential and value, and in addition, indicate promising directions of research in the focused realm of this conference series. We believe that the presentations of these accepted papers will be more exciting than the papers themselves, and lead to creative and innovative applications. We hope that the attendees (and readers as well) will find these results useful and inspiring to your field of specialization and future research.

On behalf of the organizing committee, we would like to thank the members of the organizing and the program committees, the authors, and the speakers for their dedication and contributions that make this conference possible. We would like to thank and welcome all participants to the capital city of Thailand – Bangkok. Bangkok is a country with a long and remarkable history. To get a picture of South-East Asia, this city will certainly be an entry. Though most of countries may share some similar characteristics, you will find that culture of Thailand is very rich from different perspectives, such as art, religion, nomadic life style, food, and music. Bangkok is a world-class and well-known city, with modern facilities and stable weather. We encourage the participants to take this chance to see and experience Thailand, especially the remote counties and the nomadic life style there. We also sincerely hope that all participants from overseas and from Thailand enjoy the technical discussions at the conference, build a strong friendship, and establish ties for future collaborations.

We send our sincere appreciations to the authors for their valuable contributions and the other participants of this conference. The conference would not have been possible without their support. Thanks are also due to the many experts who contributed to making the event a success.

July 2015

Jason C. Hung, Overseas Chinese University, Taiwan Kuan-Ching Li, Providence University, Taiwan Neil Y. Yen, The University of Aizu, Japan

FC 2015 Steering Committee Chairs

Message from Program Chairs

It is our great pleasure to welcome you to the 4th International Conference on Frontier Computing – Theory, Technologies, and Applications (FC 2015) in Bangkok, Thailand on September 9-11, 2015. According to the results, we believe that this conference series will lead fruitful outcomes and impacts to the society.

The FC conference series indicates a premier conference that covers a wide spectrum of research topics including Algorithms and Bioinformatics- Computer Architecture and Real time Systems- Database and Data Mining- Dependable, reliable and autonomic computing- Distributed and parallel systems & algorithms- Networking and communications- Performance Evaluation-Programming Languages- Web and internet computing- Theoretical computer science- Natural Language Processing- Operating Systems- Compiler Design- Computer Grapics- DSP/Image Processing/Pattern Recognition/Multimedia- Embedded system and software- Game Theory- Geographical Information Systems/ Global Navigation Satellite Systems (GIS/GNSS)- Grid and scalable computing- Intelligent Information & Database Systems- Security and Privacy- Social Computing- Soft Computing- Software Design Patterns & Engineering- Software Testing and Quality- Symbolic Computation- Telemedicine- IT policy and business management- Mobile and ubiquitous computing- Modeling and Simulation- Multimedia systems and services- Integrating Technology in Education- Growing topics in all aspects of information technology, science, and engineering

In this year, we have received over 150 submissions from more than 5 countries, taking into account all the authors on submitted manuscripts, with very short period. All the submissions were first screened by their relevance and general submission requirements. Submissions passed the first-round screen then underwent a rigorous peer-review process with at least three referees, carried out by our international program committee members. A total 100 papers that best meet the theme of conference are accepted for presentation and inclusion in the proceedings at the end.

We would like to take this opportunity to thank all authors for their support and participation, with many traveled great distances to make their valuable presentations and to share their insights. Furthermore, we are indebted to the program committee members and the external referees who have put in hard work and long hours to review each paper in a timely and professional manner. We have to agree that this program, and the conference as well, will not be possible without their help and advice.

Finally, we would like to thank the authors for choosing FC as a venue to present their excellent research outcomes. We envision that the conference cultivates interactions between researchers from different countries, research centers and universities and provides a stimulating platform for idea exchange in the rapidly changing field of awareness computing and its related fields.

July 2015

Keqiu Li, Dalian University of technology, China Hai Jiang, Arkansas State University, USA Kehan Zeng, University of Macau, Macau Meng-Yen Hsieh, Providence University, Taiwan Zhou Rui, Lanzhou University, China

FC 2015 Program Chairs

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Tran Thien Phuc, Hochimin City University of Technology, Vietnam
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Keynote Speaker



Multi-Phase Ant Colony System for Multi-Party Data-Intensive Service Provision

Jun Shen, Ph.D SMACM, SMIEEE, SMACS Associate Professor School of Computing and Information Technology, University of Wollongong, Australia

Biography

Dr Jun Shen was awarded PhD in 2001 at Southeast University, China. He held positions at Swinburne University of Technology in Melbourne and University of South Australia in Adelaide before 2006. He is an Associate Professor in School of Computing and Information Technology at University of Wollongong in Wollongong, NSW of Australia, where he has been Head of Postgraduate Studies, and Chair of School Research Committee since 2014. He is a senior member of three institutions: IEEE, ACM and ACS. He has published more than 100 papers in journals and conferences in CS/IT areas. His expertise includes Web services, Cloud computing and learning technologies. He has been Editor, PC Chair, Guest Editor, PC Member for numerous journals and conferences published by IEEE, ACM, Elsevier and Springer. A/Prof Shen is also a current member of ACM/AIS Task Force on Curriculum 2016.

Abstract

The rapid proliferation of enormous sources of digital data has led to greater dependence on data-intensive services. Each service may actually request or create a large amount of data sets. To compose these services will be more challenging. Issues such as autonomy, scalability, adaptability, and robustness, become difficult to resolve. In order to automate the process of reaching an agreement among service composers, service providers, and data providers, an ant-inspired negotiation mechanism is considered in this paper. We exploit a group of agents automatically negotiating to establish agreeable service contracts. Two stage negotiation procedures are used in our data-intensive service provision model, which will provide effective and efficient service selection for service composers. We also present a multi-phase, multi-party negotiation protocol, where the ant colony system is applied to select services with the best or near-optimal utility outputs. In order to adapt the ant colony system to handle the dynamic scenarios during negotiations, we also discuss several strategies for modifying the pheromone information in the first place. The experimental results show that our negotiation-based approach can facilitate the data-intensive service provision with better outcome.

Schedule

September 9, 2015 (Wednesday)						
time	min.	HALL-A	HALL-B	HALL-C		
10:00 - 11:00	120	Session 1-A chaired by Jenn-Wei Lin	Session 1-B chaired by Vladimír Smejkal	Session 1-C chaired by Kurosh Madani		
11:00 - 12:00	120	Session 2-A chaired by Jenn-Wei Lin	Session 2-B chaired by Soumya Banerjee	Session 2-C chaired by Maiga Chang		
13:00 - 14:30	90	Executive Meeting				

September 10, 2015 (Thursday)					
time	min.	HALL-A	HALL-B	HALL-C	
08:00 - 09:00	60	Session 3-A chaired by Hsuan-Fu Wang	Session 3-B chaired by Wei-Chen Wu	Session 3-C chaired by You-Shyang Chen	
09:00 - 10:00	60	Session 4-A chaired by Hsuan-Fu Wang	Session 4-B chaired by Wei-Chen Wu	Session 4-C chaired by You-Shyang Chen	
10:00 - 10:30	20	Coffee Break			
10:30 - 11:20	50	Keynote Speech			
11:30 - 12:30	60	Session 5-A chaired by Hsuan-Fu Wang	Session 5-B chaired by Yu-Wei Chan	Session 5-C chaired by Yung-Hui Chen	
12:30 - 13:30	60	Lunch			
13:30 - 14:30	60	Session 6-A chaired by Lin Hui	Session 6-B chaired by Kai-Yi Chin	Session 6-C chaired by Jason C. Hung	
14:30 - 15:30	60	Session 7-A chaired by Qingguo Zhou	Session 7-B chaired by Eiko Yoneki	Session 7-C chaired by Oscar Fuhua Lin	
15:30 - 15:50	20	Coffee Break			
15:50 - 17:00	70	Session 8-A chaired by Vladimír Smejkal	Session 8-B chaired by Yasuji Sawada	Session 8-C chaired by Yutaka Watanobe	
18:00 -		Banquet			

September 11, 2015 (Friday)						
time	min.	HALL-A	HALL-B	HALL-C		
10:00 - 12:00	90	Executive Meeting				

- 1. A presentation shall be made by an author of the accepted paper for 12 minute (10 minutes for the presentation and 2 minutes for Q/A). Session chair has the right to make further adjustment.
- 2. Speakers shall meet the session chair at the room, at least, 3 minutes before the session begins.
- 3. Windows-based laptops with the Adobe Reader and Microsoft Office for presentations will be provided. Personal device for presentation are welcome but please be sure that you bring the adapters (for those Mac

users).

Detail Schedule

Session 1-A (10:00 – 11:00, September 9, 2015)

1. Artificial Neural Network based Evaluation Method of Urban Public Security

Zheng Xu, Qingyuan Zhou, Haiyan Chen, Fangfang Liu

2. Building the Search Pattern of Social Media User based on Cyber Individual Model

Zheng Xu, Xiao Wei, Dongmin Chen, Haiyan Chen, Fangfang Liu

3. Design of health supervision system base on WBAN

Xinli Zhou

4. The Analysis of Hot Topics and Frontiers of Financial Engineering Based on Visualization Analysis

Liangbin Yang

5. An efficient ACL segmentation method

YunBo Rao, XianShu Ding, Jianping Gou, Ying Ma

Session 1-B (10:00 – 11:00, September 9, 2015)

1. A Algorithm of Detectors Generating Based on Negative Selection Algorithm

Wu Renjie, Guo Xiaoling, Zhang Xiao

2. An Algorithm for Image Denoising Based on Adaptive Total Variation

Guo Xiaoling, Yang Jie, Zhang Xiao

3. An optimization of the delay scheduling algorithm for real-time video stream processing

Hongbin Yang, Jianhua Guo, Chao Liang, Zhou Lei, Changsheng Wang

4. Robust Markov Random Field Model for Image Segmentation

Taisong Xiong, Yuanyuan Huang

5. A Data Clustering Algorithm Using Cuckoo Search

Mingru Zhao, Hengliang Tang, Jian Guo, Yuan Sun

Session 1-C (10:00 – 11:00, September 9, 2015)

1. Applications of Video Structured Description Technology for Traffic Violation Monitoring Qianjin Tang, Zheng Xu, Zhizong Wu, Yixuan Wu, Lin Mei

2. Parameter estimation of trailing suction hopper dredger dredging model by GA

Zhen Su, Wei Yuan

3. Research of Mining Multi-Level Association Rule Models

Wen-Hsing Kao

4. Research of the Dimension Combination Strategy Model

Bo-Shen Liou, Wen-Hsing Kao

5. Short Latency Bias in Latency Matrix Completion

Cong Wang, Min Li, Yan Yang

Session 2-A (11:00 – 12:00, September 9, 2015)

1. Image Haze Removal of Optimized Contrast Enhancement Based on GPU

Che-Lun Hung, Zhaohui Ma, Chun-Yuan Lin, Hsiao-Hsi Wang

2. Research of Thunderstorm Warning System Based on Credit Scoring Model

Xinli Zhou, LiangBin Yang, HaiFeng Hu

3. Cloud-Based Marketing: Does Cloud Applications for Marketing Bring Positive Identification and Post-purchase Evaluation?

Ching-Wei Ho, Yu-Bing Wang

4. Automated Tool Trajectory Planning for Spray Painting Robot of Free-form surfaces

Wei Chen, Yang Tang

5. The Research about Vehicle Recognition of Parallel Computing Based on GPU

Zhiwei Tang, Yong Chen, Zhiqiang Wen

Session 2-B (11:00 – 12:00, September 9, 2015)

1. The Application of Bacteria Swarm Optimization Algorithm in Site Choice of Logistics Center

Mingru Zhao, Hengliang Tang, Jian Guo, Yuan Sun

2. The research of analysis addiction for online game

Jason C. Hung, Min-Hui Ding, Wen-Hsing Kao, Hui-Qian Chen, Min-Feng Lee, Guey-Shya Chen

3. SIDA: An Information Dispersal based Encryption algorithm

Zhi-ting Yu, Quan Qian, Rui Zhang, Che-Lun Hung

4. Software Behavior Analysis Method Based On Behavior Template

Lai Yingxu, Zhao Yiwen, Ye Tao

5. Formalizing Dynamic Service Interaction Based on Pi-Calculus

Yaya Liu, Jiulei Jiang, Wenwen Liu

Session 2-C (11:00 – 12:00, September 9, 2015)

1. CPP Control System Design of Ship Based on Siemens PLC

Liang Qi, Shengjian Huang

2. The Surface Deformation Prediction of Ship-hull Plate for Line Heating

Liang Qi, Feng Yu, Junjie Song, Xian Zhao

3. Simulation and Optimization of the AS/RS Based on Flexsim

Tongjuan Liu, Yingqi Liu, Yanlin Duan

4. A simple randomized algorithm for complete target coverage problem in sensor wireless networks

Weizhong Luo, Zhaoquan Cai, Zhi Zeng

5. Design and Experiment of Control System for Underwater Ocean Engineering Structure Inspection and Clean ing Remotely Operated Vehicle

Haijian Liu, Zhenwen Song, Song Liang, Lu Chang, Renyi Lin, Wei Chen, Qingjun Zeng

Session 3-A (08:00 – 09:00, September 10, 2015)

1. A Variational Bayesian Approach for Unsupervised Clustering

Mu-Song Chen, Hsuan-Fu Wang, Chi-Pan Hwang

2. Virtualized Multimedia Environment for Shoulder Pain Rehabilitation

Chih-Chen Chen, Hsuan-Fu Wang, Shih-Chuan Wang, Chih-Hong Chou, Heng-Chih Hsiao, Yu-Luen Chen

3. Multimedia Technology with Tracking Function for Hand Rehabilitation

Ying-Ying Shih, Yen-Chen Li, Chih-Chen Chen, Hsuan-Fu Wang, Shih-Wei Chou, Sung-Pin Hsu, Yu-Luen Chen

4. LBS with University Campus Navigation System

JiunTing Chen, Ya-Chen Chang

5. An Efficient Energy Deployment Scheme of Sensor Node

Cheng-Chih Yang, Hsuan-Fu Wang

Session 3-B (08:00 – 09:00, September 10, 2015)

1. User Authentication Mechanism on Wireless Medical Sensor Networks

Wei-Chen Wu, Horng-Twu Liaw

2. Application of cloud computing for emergency medical services: a study of spatial analysis and data mining technology

Jui-Hung Kao, Feipei Lai, Li-Min Hsu, Horng-Twu Liaw, Ta-Chien Chan

3. Social event detection and analysis using social event radar

Jin-Gu Pan, Ping-I Chen

4. Social Network and Consumer Behavior Analysis: a Case Study in the Retail Store

Pin-Liang Chen, Ping-Che Yang, Tsun Ku

5. Novel Scheme for the Distribution of Flyers using Real Movement Model for DTNs

Tzu-Chieh Tsai, Ho-Hsiang Chan

Session 3-C (08:00 – 09:00, September 10, 2015)

1. Bibliometric Analysis of Emerging Trends in High Frequency Trading Research

Jerome Chih-Lung Chou, Yao-Chung Li, Chia-Liang Hung

2. Effect of We-intention on Adoption of Information System Embedding Social Networking Technology: A Case of Cloud Drive

Jerome Chih-Lung Chou

3. Improving project risk management of cloud CRM using DANP approach

Chien-Ku Lin, You-Shyang Chen, Huan-Ming Chuang

4. Improving project risk management by a hybrid MCDM model combining DEMATEL with DANP and VIK OR methods – An example of cloud CRM

Chien-Ku Lin, You-Shyang Chen, Huan-Ming Chuang

5. Using VIKOR to improve e-service quality performance in e-store

Chien-Ku Lin, You-Shyang Chen, Huan-Ming Chuang, Chyuan-Yuh Lin

6. Study on the Intellectual Capital and Firm Performance

Chiung-Lin Chiu, You-Shyang Chen, Mei-Fang Yang

Session 4-A (09:00 – 10:00, September 10, 2015)

1. Channel Equalization for MIMO LTE System in Multi-path Fading Channels

Hsuan-Fu Wang, Mu-Song Chen, Chi-Pan Hwang

2. All-digital High-Speed Wide-Range Binary Detecting Pulse-Width Lock Loops

Po-Hui Yang, Jing-Min Chen, Zi-Min Hong

3. A BUS Topology Temperature Sensor Cell Design with System in Pakage Application

Po-Hui Yang, Jing-Min Chen, Ching-Ken Chen

4. The Off-Axis Parabolic Mirror Optical Axis Adjustment based on lateral shearing interferometer

Der-Chin Chen

5. Two-mirror telescope Optical Axis Alignment by Additive Color Mixing Method

Der-Chin Chen

Session 4-B (09:00 – 10:00, September 10, 2015)

1. Interactive Performance Using Wearable Devices: Technology and Innovative Applications

Tzu-Chieh Tsai, Chung-Yu Cheng, Kuan-Jung Su

2. A Study of Two-dimensional Normal Class Grouping

Ruey-Gang Lai, Cheng-Hsien Yu

3. A Fuzzy Genetic Approach for Optimization of Online Auction Fraud Detection System

Cheng-Hsien Yu

4. Usability Evaluation of Acoustic-oriented Services on Mouse Manipulation: Can Manipulation with Dual Sens

es be Good?

Chi Nung Chu

5. Visualized Comparison as a Correctness Indicator for Music Sight-Singing Learning Interface Evaluation – A Pitch Recognition Technology Study

Yu Ting Huang, Chi Nung Chu

6. A Study on the Use Intention of After School Teachers Using Interactive e-Learning Systems in Teaching

Horng-Twu Liaw, Chih-Ching Ho

Session 4-C (09:00 – 10:00, September 10, 2015)

1. Voluntary Disclosure and Future Earnings

Chiung-Lin Chiu, You-Shyang Chen

2. A Smart Design of Pre-processing Classifier for Impulse Noises on Digital Images

Jieh-Ren Chang, Hong-Wun Lin, Huan-Chung Chen

3. An Effective Machine Learning Approach for Refining the Labels of Web Facial Images

Jieh-Ren Chang

4. Using the Data-Service Framework to Design a Distributed Multi-Levels Computer Game for Insect Educatio

n

Chih-Min Lo

5. Financial Diagnosis System for Food Industry Listed in the Taiwan Stock Exchange

Cheng-Ming Chang

6. Classification rule discovery for housing purchase life cycle

Bo-Han Wu, Sun-Jen Huang

Session 5-A (11:30 – 12:30, September 10, 2015)

1. Design of relay lens based on zero Seidel aberrations

Kuang-Lung Huang, Yu-Wei Chan, Jin-Jia Chen, Te-Shu Liu

2. The optical spectra analysis of 4 LED white-light sources passing through different fogs Chien-Sheng Huang, Ching-Huang Lin, Guan-Syuan Hong, Hsuan-Fu Wang

3. High Resolution Camera Lens Design for Tablet PC Ching-Huang Lin

- 4. Two-Wavelength Optical Microscope Optical Axis Adjustment by five incident parallel laser beams Der-Chin Chen
- 5. The Correlation Analysis between the Non-Contact Intraocular Pressure and Dioptre Der-Chin Chen

Session 5-B (11:30 – 12:30, September 10, 2015)

1. A Smartphone Based Hand-held Indoor Positioning System
Lingxiang Zheng, Zongheng Wu, Wencheng Zhou, Shaolin Weng, Huiru Zheng

2. Hospital Service Queue Management System with Wireless Approach Manoon Ngorsed, Poonphon Suesaowaluk

- 3. Cloud Computing Adoption Decision Modelling for SMEs: From the PAPRIKA Perspective Salim Alismaili, Mengxiang Li, Jun Shen
- 4. An Novel Web Service Clustering Approach for Linked Social Service Wuhui Chen, Banage T.G.S.Kumara, Takazumi Tanaka, Incheon Paik, Zhenni Li
- 5. Cost Analysis between Statins and Hepatocellular Carcinoma by Using Data Mining Approach Yu-Tse Tsan, Yu-Wei Chan, Wei-Cheng Chan and Chin-Hung Lin

Session 5-C (11:30 – 12:30, September 10, 2015)

1. Decision Analyses of Medical Resources for Disabled Elderly Home Care: The Hyper Aged District in Taiwan

Lin Hui, Kuei Min Wang

2. Pseudo Nearest Centroid Neighbor Classification

Hongxing Ma, Xili Wang, Jianping Gou

3. Social events detection and tracking based on microblog

Guiliang Feng, Yiping Lu, Jing Qin, Xiao Zhang

4. Recommendation System for Cognitive Assessment Evaluation Based on two-phase Blue-Red Tree of Rule-Space Model-A Case Study of MTA Course

Yung-Hui Chen, Chun-Hsiung Tseng, Ching-Lien Huang, Lawrence Y. Deng and Wei-Chun Lee

5. A Comparative Study on Disease Risk Model in Exploratory Spatial Analysis Zhisheng Zhao, Xiao Zhang, Yang Liu, Junhua Liang, Jiawei Wang, Yaxu Liu

Session 6-A (13:30 – 14:30, September 10, 2015)

1. Microblogging Recruitment Information Mining

Jing Qin, Yiping Lu, Shuo Feng, Guiliang Feng

2. Community Trust Recommendation Based on Probability Matrix Factorization

Xunfeng Li, Weimin Li

Community Clustering Based on Weighted Informative Graph

Yi Xu, Yingning Gao, Weimin Li

4. Facial Feature Extraction Based on Weighted ALW and Pulse-Coupled Neural Network

Junhua Liang, Zhisheng Zhao, Xiao Zhang, Yang Liu, Xuan Wang

5. Event Representation and Reasoning Based on SROIQ and Event Elements Projection

Wei Liu, Ning Ding, Yue Tan, Yujia Zhang, Zongtian Liu

Session 6-B (13:30 – 14:30, September 10, 2015)

1. The Research and Application of Data Warehouse's Model Design

Zhangzhi Zhao, Jing Li, Yongfei Ye, Yang Liu, Yaxu Liu

2. Question Recognition Based on Subject

Li-fang Huo, Li-ming Zhang, Xi-qing Zhao

3. Development of a mobile augmented reality system to facilitate real-world learning

Kai-Yi Chin, Ko-Fong Lee, Hsiang-Chin Hsieh

4. Research on Network Security Strategy Model

Anyi Lan, Bo Li, Rongsheng Huang, Xiao Zhang, Guiliang Feng

5. The Framework Research of the Internet of Things in Dispatching Emergency Supplies

Tongjuan Liu, Yanlin Duan, Yingqi Liu

Session 6-C (13:30 – 14:30, September 10, 2015)

1. Detection for Different Type Botnets Using Feature Subset Selection

Kuan-Cheng Lin, Wei-Chiang Li, Jason C. Hung

2. Rotation Invariant Feature Extracting Of Seal Images Based On PCNN

Naidi Liu, Yongfei Ye, Xinghua Sun, Junhua Liang, Peng Sun

3. THE TAGUCHI SYSTEM-TWO STEPS OPTIMAL ALGORITHM BASED NEURAL NETWORK FOR DYN AMIC SENSOR PRODUCT DESIGN

Ching-Lien Huang, Yung-Hui Chen, Chun- Hsiung Tseng, Tian-Long John Wan, Lung-Cheng Wang, Chang-Lin Yang

4. A Method of Event Ontology Mapping

Xu Wang, Wei Liu, Yujia Zhang, Yue Tan, Feijing Liu

5. A Research on Multi-Dimensional Multi-Attribute String Matching Mechanism for 3D

Motion Databases

Edgar Chia-Han Lin

Session 7-A (14:30 – 15:30, September 10, 2015)

- 1. Investigating on radioactivity of LBE and Pb in ADS Spallation Target Yaling Zhang, Xuesong Yan, Xunchao Zhang, Jianqi Chen, Qingguo Zhou, Lei Yang
- 2. Research on Learning Record Tracking System Based on Experience API Xinghua Sun, Yongfei Ye, Li Hao, Zexin An, Xiaoyu Wang
- 3. Analysis of the Status Quo of MOOCs in China Li Hao, Xinghua Sun, Chunlei Zhang, Xifeng Guo
- 4. Independent Component Analysis of space-time patterns of Groundwater system Chin Tsai Hsiao, Jui Pin Tsai, Yu Wen Chen
- 5. An EF6 Code-First approach using MVC architecture pattern for watershed data download, visualization and analysis system development based on CUAHSI-HIS

 Rui Gao, Yanyun Nian, Lu Chen, Qingguo Zhou

Session 7-B (14:30 – 15:30, September 10, 2015)

- 1. A Novel Enveloped-Form Feature Extraction Technique for Heart Murmur Classification HaoDong Yao, BinBin Fu, MingChui Dong, Mang I VAI
- 2. Design of Farmland Environment Remote Monitoring System Based on ZigBee Wireless Sensor Network Yongfei Ye, Li Hao, Minghe Liu, Hongxi Wu, Xiao Zhang, Zhisheng Zhao
- 3. Attractions and Monuments Touring System based on Cloud Computing and Augmented Reality Degiang Han, Zongxia Wang, Qiang Zhang
- 4. Constructing weighted gene correlation network on GPUs

 Guanghui Yang, Sheng Zhang, Yuan Tian, Ping Lin, Jiang-Feng Wan, Qingguo Zhou, Lei Yang
- 5. Research on Learning Record Tracking System Based on Experience API Xinghua Sun, Yongfei Ye, Li Hao, Xifeng Guo, Xiaoyu Wang

Session 7-C (14:30 – 15:30, September 10, 2015)

- 1. Student Mixture Modelling for Image Segmentation With Markov Random Field Taisong Xiong, Yuanyuan Huang, Xin Luo
- 2. Integrated genetic algorithm and fuzzy logic for planning path of mobile robots Shixuan Yao, Xiangrong Wang, Baoliang Li
- 3. Characterization of Noise Contaminations in Realistic Heart Sound Acquisition

 Jun Huang, Booma Devi Sekar, Ran Guo, MingChui Dong, XiangYang Hu
- 4. Accurate Analysis of a Movie Recommendation Service with Linked Data on Hadoop and Mahout Meng-Yen Hsieh, Gui-Lin Li, Ming-Hong Liao, Wen-Kuang Chou, Kuan-Ching Li
- 5. A Using Experiment On Social Learning Environment Base on an Open Source Social Platform Jing-De Weng, Martin M. Weng, Jason C. Hung, Huang Chun-Hong

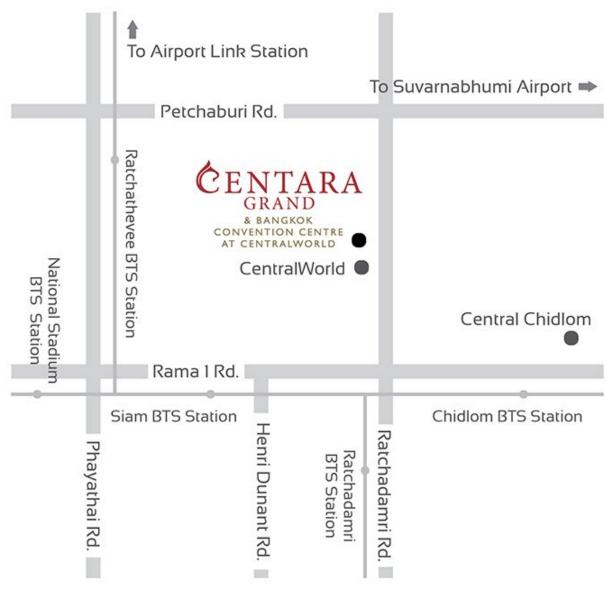
Conference Venue

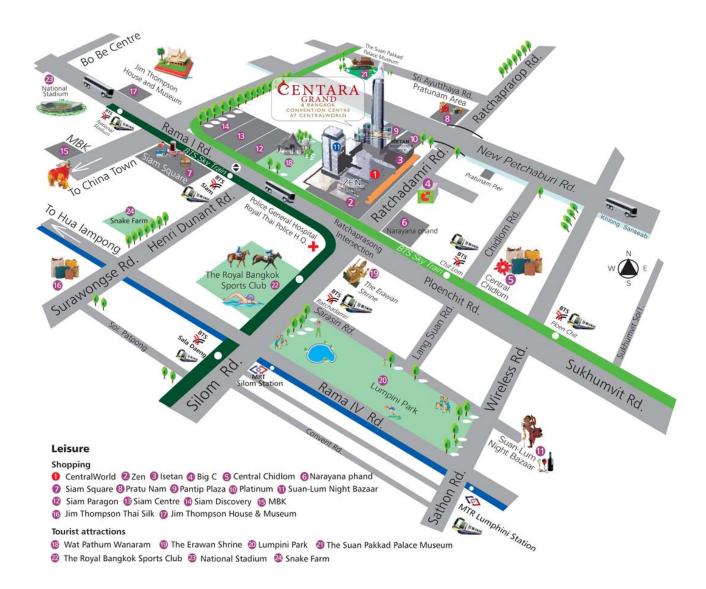


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Travel Information

We provide the recommended tours of half day, one full day, two full days and three full days, which are listed as follows:

1. Half Day Tour:

- Bangkok City, Royal Grand Palace and Temples

2. One full day:

(1) Safari World: http://www.safariworld.com

Thailand's Greatest and most popular open zoo and leisure park. Covering over 200 Acres, Safari World is made up of Safari Park and Marine Park, and offers a Greatest Variety of fun and Entertainment for visitors of All Ages and Nationalities.

(2) Siam Ocean World:

One of the largest underground aquariums in Southeast Asia, Siam Ocean World will dazzle you with innovative world-class exhibits and over 30,000 curious looking creatures from various depths and aquatic regions across the globe.

(3) Dream World: http://www.dreamworld-th.com

Exciting and challenging rides are awaiting you. You can take Space Mountain, a high speed Roller Coaster through space visiting other galaxies or experience Asia's very first hanging coaster and find out how brave you are.

(4) Bangkok Landmark Tour:

This tour brings you to the most distinguished temples in Bangkok: Wat Trimitr, the temple of the Golden Buddha - the statue of Buddha is made from solid gold weighting 5.5 tons; Wat Pho, the temple of the Reclining Buddha - the largest and oldest in Bangkok; Wat Benchamabopit - the marble temple.

(5) Ayutthaya by Cruise Tour:

Luxury and relaxing to Ayutthaya by Grand Pearl Cruise. Visit Bang Pa-In Summer Palace, Wat Phrasrisanphet and Wat Chai Wattanaram, the most beautiful temple in Ayutthaya. In afternoon, sailing along the Chao Phraya River back to Bangkok. Enjoy the fascinating sights along the river banks as the wonderful Grand Palace and the Wat Phra Keo (The Emerald Buddha Temple), the graceful Wat Arun.

(6) Floating Market with Elephant Theme Show and Crocodile Farm:

Visit Damnoen Saduak Floating Market including an opportunity to experience Thais rural life and a charm of countryside. Then, process to see the Greatest Elephant Theme Show.

(7) Floating Market Tour with Rose Garden:

Experience Thais rural life and a charm of countryside at Damnoen Saduak Floating Market and enjoy the Thai Village Cultural Show at Rose Garden.

3. Two full days:

(1) Floating Market with River Kwai Tour:

Experience Thais rural life and a charm of countryside at Damnoen Saduak Floating Market and visit historical sites in Kanchanaburi including the Bridge over the River Kwai, Allied War Cemeteries.

(2) Pattaya Tour with Coral Island:

Spend a night in the vibrant seaside city of Pattaya and experience all the colourful Nightlife this city has to offer. This two day trip will feature a speedboat trip out to the crystal clear waters on Koh Lan (Coral Island) and an optional trip to Nong Nooch Gardens. Day two will be free and easy for more beach time or shopping in Pattaya before we transfer you back to your Bangkok hotel.

(3) Khao Yai National Park:

A big mountain region in Thailand, that covers an area of about 2.200 km and is one of the country's largest national parks. In 1959 Khao Yai was declared a nature reserve and is now home to 153 different species of animals are protected by law. Within this refreshing and scenic landscape, with it's bizarre mountains, there is still untouched jungle, mountain streams and many waterfalls, with a preserved animal world, which includes wild elephants, buffaloes, deer's porcupines, varieties of monkeys, parrots and parakeets, huge hornbills and another 250 species of birds. There are even tigers, clouded leopards and bears living here. A unique experience awaits you at dusk, when you see more than one million bats fly out and leave their daytime home in the caves.

4. Three full days:

(1) River Kwai Soft Adventure:

The "River Kwai Soft Adventure Tour" is a 3-days excursion trip out of Bangkok to the beautiful River Kwai valley. The tour includes boat trip, train journey, a short hike, elephant riding, bamboo rafting and a lot of nature. The two overnights are spent in a comfortable tented camp and on a house boat. This is a perfect tour for nature lovers and families.

(2) Thailand in a Nutshell:

The tour that starts with a leisurely boat cruise from Bangkok to Ayutthaya. The tour combines one overnight in Ayutthaya with one overnight at the River Kwai into a 3-day mini circle-tour that offers a brief glimpse of the country's nature and history within a convenient distance from Bangkok.