

## PROGRAM OF UIC-06 AND ATC-06 AT A GLANCE

<b>Sept. 2 (Saturday)</b>						
13:00~20:30	Registration (Lake View Garden Hotel)					
18:00-20:00	Reception (Lake View Garden Hotel)					
<b>Sept. 3 (Sunday)</b>						
08:00-11:00	Registration (Lake View Garden Hotel)					
08:30-08:45	Opening Ceremony ( <i>Room M</i> )					
08:45-09:35	Keynote 1 ( <i>Room M</i> ): Transparent Computing: A New Paradigm for Pervasive Computing, <i>Yaoxue Zhang</i>					
09:35-10:25	Keynote 2 ( <i>Room M</i> ): Managing Trust in Distributed Agent-Based Systems, <i>Stephen S, Yau</i>					
10:25-10:45	Break					
10:45-11:35	Keynote 3 ( <i>Room M</i> ): Organic Computing – Emergence under Control? <i>Christian Müller-Schloer</i>					
12:00-17:00	Taking coaches from Wuhan to Yichang (Have lunch at coaches)					
17:00-19:30	Sightseeing of Three Gorges Dam. Boarding at Yichang					
19:30-20:30	Supper					
<b>Sept. 4 (Monday)</b>						
07:30-08:30	Breakfast					
08:30-12:00	Sightseeing of Shennong Stream					
12:00-13:00	Lunch					
13:00-15:00	Sightseeing of Wuxia Gorge					
15:00-16:00	Session 1A (Room A): Smart Objects and Embedded Systems I	Session 1B (Room B): Smart Spaces/ Environments/Platforms I	Session 1C (Room C): Ad Hoc and Intelligent Networks I	Session 1D (Room D): Sensor Networks I	Session 1E (Room E): Autonomic/Organic Computing and Communications I	Session 1F (Room F): Reliability, Fault Tolerance and Dependable Systems I
16:00-17:00	Sightseeing of Qutang Gorge					
17:00-18:00	Session 2A (Room A): Security, Safety and Privacy I	Session 2B (Room B): Pervasive Communications and Mobile Systems I	Session 2C (Room C): Services, Models, Personal/Social Factors I	Session 2D (Room D): Context-Aware Computing I	Session 2E (Room E): Cryptography, Security and Privacy I	Session 2F (Room F): Trust Models and Trustworthy Systems/Services I
18:30-20:00	Supper					

Sept. 5 (Tuesday)						
07:30-08:30	Breakfast					
08:30-09:30	Session 3A (Room A): Smart Objects and Embedded Systems II	Session 3B (Room B): Pervasive Communications and Mobile Systems II	Session 3C (Room C): Services, Models, Personal/Social Factors II	Session 3D (Room D): Context-Aware Computing II	Session 3E (Room E): Autonomic/Organic Computing and Communications II	Session 3F (Room F): Trust Models and Trustworthy Systems/Services II
09:30-10:00	Break					
10:00-12:00	Session 4A (Room A): Security, Safety and Privacy II	Session 4B (Room B): Smart Spaces/ Environments/Platforms II	Session 4C (Room C): Ad Hoc and Intelligent Networks II	Session 4D (Room D): Sensor Networks II	Session 4E (Room E): Cryptography, Security and Privacy II	Session 4F (Room F): Reliability, Fault Tolerance and Dependable Systems II
12:00-13:00	Lunch					
13:00-15:00	Session 5A (Room A): Security, Safety and Privacy III	Session 5B (Room B): Smart Spaces/ Environments/Platforms III	Session 5C (Room C): Services, Models, Personal/Social Factors III	Session 5D (Room D): Sensor Networks III	Session 5E (Room E): Autonomic/Organic Computing and Communications III	Session 5F (Room F): Trust Models and Trustworthy Systems/Services III
15:00-17:00	Break					
17:00-18:20	Session 6A (Room A): Smart Objects and Embedded Systems III	Session 6B (Room B): Pervasive Communications and Mobile Systems III	Session 6C (Room C): Services, Models, Personal/Social Factors IV	Session 6D (Room D): Context-Aware Computing III	Session 6E (Room E): Cryptography, Security and Privacy III	Session 6F (Room F): Trust Models and Trustworthy Systems/Services IV
18:30-20:00	Supper					
Sept. 6 (Wednesday)						
07:30-09:00	Breakfast					
09:00-11:00	Session 7A (Room A): Security, Safety and Privacy IV	Session 7B (Room B): Cryptography, Security and Privacy IV (In ATC-06)	Session 7C (Room C): Ad Hoc and Intelligent Networks III	Session 7D (Room D): Sensor Networks IV	Session 7E (Room E): Autonomic/Organic Computing and Communications IV	Session 7F (Room F): Trust Models and Trustworthy Systems/Services V
11:00-12:00	Debarcation at Chongqing					
12:00-13:00	Hot Pot					
<b>Notice: Session xA-xD are of UIC-06 except 7B, and Session xE-xF are of ATC-06</b>						

# SCHEDULE FOR UIC-06

## Sept. 2 (Saturday)

13:00–20:30 Registration (Lake View Garden Hotel)

18:00–20:00 Reception (Lake View Garden Hotel)

Chair: *Hai Jin*

## Sept. 3 (Sunday)

08:00–11:00 Registration (Lake View Garden Hotel)

08:30–08:45 Opening Ceremony (Room M)

Chair: *Hai Jin*

08:45–09:35 Keynote 1 (Room M)

Chair: *Norio Shiratori*

Transparent Computing: A New Paradigm for Pervasive Computing, *Yaoxue Zhang*

09:35–10:25 Keynote 2 (Room M)

Chair: *Jeffrey J.P. Tsai*

Managing Trust in Distributed Agent-Based Systems, *Stephen S. Yau*

10:25–10:45 Break

10:45–11:35 Keynote 3 (Room M)

Chair: *Theo Ungerer*

Organic Computing – Emergence under Control? *Christian Müller-Schloer*

12:00–17:00 Taking coaches from Wuhan to Yichang (Have lunch at coaches)

17:00–19:30 Sightseeing of Three Gorges Dam. Boarding at Yichang

19:30–20:30: Supper

## Sept. 4 (Monday)

07:30–08:30 Breakfast

08:30–12:00 Sightseeing of Shennong Stream

12:00–13:00 Lunch

13:00–15:00 Sightseeing of Wuxia Gorge

15:00–16:00 Concurrent Sessions 1A, 1B, 1C, 1D

**Session 1A: Smart Objects and Embedded Systems I (Room A)**

Session Chair: *Ying-Hong Wang*

Drag and Drop by Laser Pointer: Seamless Interaction with Multiple Large Displays, *Liang Zhang, Yuanchun Shi, Jichun Chen*

A Flexible Display by Integrating a Wall-Size Display and Steerable Projectors, *Li-Wei Chan, Wei-Shian Ye, Shou-Chun Liao, Yu-Pao Tsai, Jane, Hsu, Yi-Ping Hung*

Design and Implementation of a Smart Tag System for IT-Based Port Logistics, *Hyuntae Cho, Hoon Choi, Woonghyun Lee, Yeonsu Jeong, Yunju Baek*

**Session 1B: Smart Spaces/Environments/Platforms I (Room B)**

Session Chair: *Daqing Zhang*

A Robust Location Tracking Using Ubiquitous RFID Wireless Network, *Keunho Yun, Seokwon Choi, Daijin Kim*

Hybrid Predictors for Next Location Prediction, *Jan Petzold, Faruk Bagci, Wolfgang Trumler, Theo Ungerer*

Psychology-Aware Video-Enabled Workplace, *Marco Anisetti, Valerio Bellandi, Ernesto Damiani, Fabrizio Beverina, Maria Rita Ciceri, Stefania Balzarotti*

**Session 1C: Ad Hoc and Intelligent Networks I (Room C)**

Session Chair: *Tetsuo Kinoshita*

A New Model to Optimize the Cost Efficiency of Broadcast in Mobile Ad Hoc Networks, *Xin Li, Shanzhi Chen, Zhen Qin, Bo Hu*

Joint Power Control and Channel Assignment Algorithms for Wireless Ad Hoc Networks, *Yuan Zhang, Shouning Qu*

Fast IPv6 Addressing Technique for Mobile Ad Hoc Networks, *Dongkeun Lee, Keecheon Kim*

**Session 1D: Sensor Networks I (Room D)**

Session Chair: *Jiannong Cao*

A Scalable, Efficient and Reliable Routing Protocol for Wireless Sensor Networks, *Peter Kok Keong Loh*

ACO Based QoS Routing Algorithm for Wireless Sensor Networks, *Wenyu Cai, Xinyu Jin, Yu Zhang, Kangsheng Chen, Rui Wang*

Cluster Number Variability Problem in LEACH, *Huafeng Liu, Liang Li, Shiyao Jin*

16:00–17:00 Sightseeing of Qutang Gorge

17:00–18:00 Concurrent Sessions 2A, 2B, 2C, 2D

**Session 2A: Security, Safety and Privacy I (Room A)**

Session Chair: *Yi Mu*

A Novel Steganographic Technique Based on Image Morphing, *Satoshi Kondo, Qiangfu Zhao*

A Group-Oriented (t, n) Threshold Signature Scheme Against Replay Attacks, *Chin-Chen Chang, Kuo-Lun Chen, Chu-Hsing Lin, Jen-Chieh Chang*

Incorporating Data Mining Tools into a New Hybrid-IDS to Detect Known and Unknown Attacks, *Lokesh D. Pathak, Ben Soh*

### **Session 2B: Pervasive Communications and Mobile Systems I (Room B)**

Session Chair: *Wenny Rahayu*

A Base Station-Coordinated Contention Resolution for IEEE 802.16 PMP Networks, *Wenyan Lu, Weijia Jia, Wenfeng Du, Lidong Lin*

A Promise Theory Approach to Collaborative Power Reduction in a Pervasive Computing Environment, *Mark Burgess, Frode Eika Sandnes*

CityVoyager: An Outdoor Recommendation System Based on User Location History, *Yuichiro Takeuchi, Masanori Sugimoto*

### **Session 2C: Services, Models, Personal/Social Factors I (Room C)**

Session Chair: *Jason Hung*

On Studying P2P Topology Construction Based on Virtual Regions and Its Effect on Search Performance, *Yufeng Wang, Wendong Wang, Kouichi Sakurai, Yoshiaki Hori*

Scalable Resources Portfolio Selection with Fairness Based on Economical Methods, *Yu Hua, Dan Feng, Chanle Wu*

Personalized u-Portal System with Ontology and Web Services, *Eun-Ha Song, Yang-Seung Jeon, Dae-Keun Si, Laurence T. Yang, Young-Sik Jeong, Sung-Kook Han*

### **Session 2D: Context-Aware Computing and Systems I (Room D)**

Session Chair: *Hirohide Haga*

Real-Time Human Tracker Based Location and Motion Recognition for the Ubiquitous Smart Home, *Jonghwa Choi, Soonyong Choi, Dongkyoo Shin, Dongil Shin*

Automatic Updating of a Book Storage Database in a Ubiquitous Library Information System, *Hideaki Araki, Hirohide Haga, Shigeo Kaneda*

Context-Aware Dynamic Personalised Service Re-Composition in a Pervasive Service Environment, *Yuping Yang, Fiona Mahon, M. Howard Williams, Tom Pfeifer*

**18:30–20:00: Supper**

## **Sept. 5 (Tuesday)**

**07:30–08:30 Breakfast**

**08:30–09:30 Concurrent Sessions 3A, 3B, 3C, 3D**

### **Session 3A: Smart Objects and Embedded Systems II (Room A)**

Session Chair: *Jhing-Fa Wang*

A Smart Schoolbag System for Reminding Pupils of the Forgotten Items, *Lei Jing, Noriko Yamamoto, Zixue Cheng, Hui-Huang Hsu, Tongjun Huang*

Passive Radio Frequency Exteroception in Robot Assisted Shopping for the Blind, *Chaitanya Gharpure, Vladimir Kulyukin, Minghui Jiang, Aliasgar Kutiyanawala*

A Smart Identification Card System Using Facial Biometric: from Architecture to Application, *Kun Peng, Liming Chen, Su Ruan*

### **Session 3B: Pervasive Communications and Mobile Systems II (Room B)**

Session Chair: *David Taniar*

Energy Saving of Mobile Devices Based on Component Migration and Replication in Pervasive Computing, *Songqiao Han, Shensheng Zhang, Yong Zhang*

Mobile Agent Enabled Application Mobility for Pervasive Computing, *Ping Yu, Jiannong Cao, Weidong Wen, Jian Lu*

Towards Summarized Representation of Time Series Data in Pervasive Computing Systems, *Faraz Rasheed, Youngkoo Lee, Sungyoung Lee*

### **Session 3C: Services, Models, Personal/Social Factors II (Room C)**

Session Chair: *Naixue Xiong*

Augmented Video Services and Its Applications in an Advanced Access Grid Environment, *Ying Li, Xiaowu Chen, Xiangyu Ji, Chunmin Xu, Bin Zhou*

RINDY: A Ring Based Overlay Network for Peer-to-Peer On-Demand Streaming, *Bin Cheng, Hai Jin, Xiaofei Liao*

A Multi-Layered Methodology for Assessing the Level of Ubiquitous Computing Services, *Ohbyung Kwon, Jihoon Kim*

### **Session 3D: Context-Aware Computing and Systems II (Room D)**

Session Chair: *Jadwiga Indulska*

A Context-Aware Multi-Agent Service System for Assistive Home Applications, *Yong Kim, Yoonsik Uhm, Zion Hwang, Minsoo Lee, Gwanyeon Kim, Ohyoung Song, Sehyun Park*

Profile Processing and Evolution for Smart Environments, *Robbie Schaefer, Wolfgang Mueller, Jinghua Groppe*

A Context-Aware Smart Home Service System based on uWDL, *Yongyun Cho, Kyoungso Shin, Jaeyoung Choi, Chaewoo Yoo*

**09:30–10:00: Break**

**10:00–12:00 Concurrent Sessions 4A, 4B, 4C, 4D**

### **Session 4A: Security, Safety and Privacy II (Room A)**

Session Chair: *Masao Yokota*

A Further Approach on Hypercube-Based Pairwise Key Establishment in Sensor Networks, *Ping Li, Yaping Lin*

Key Predistribution in Sensor Networks, *Guorui Li, Jingsha He, Yingfang Fu*

A Strong Key Pre-Distribution Scheme for Wireless Sensor Networks, *Taeyeon Kim, Gicheol Wang*

Cooperative Public Key Authentication Protocol in Wireless Sensor Network, *DaeHun Nyang, Abedelaziz Mohaisen*

Restricted Universal Designated Verifier Signature, *Xinyi Huang, Willy Susilo, Yi Mu, Futai Zhang*

Research on Pairwise Key Establishment Model and Algorithm for, Sensor Networks, *Lei Wang, Yaping Lin, Minsheng Tan, Chunyi Shi*

#### **Session 4B: Smart Spaces/Environments/Platforms II (Room B)**

Session Chair: *Lawrence Y. Deng*

Distributed Embedded Intelligence Room with Multi-Agent Cooperative Learning, *Kevin I-Kai Wang, Waleed H. Abdulla, Zoran Salcic*

Intelligent Pervasive Middleware Based on Biometrics, *Jonghwa Choi, Dongkyoo Shin, Dongil Shin*

An Arrival Time Anticipation Approach for Real-Time Tracking of Moving Object in Mobile Networks, *JungHee Jo, JuWan Kim, KyungWook Min, KwangSoo Kim, YongJoon Lee*

Behavior Analysis with Combined RFID and Video Information, *Hui-Huang Hsu, Zixue Cheng, Tongjun Huang, Qiu Han*

Well-Being Store: A New Channel in U-Commerce for Insurance Industry, *Jong Hwan Suh, Sung Min Bae, Sang Chan Park*

Real-Time License Plate Detection under Various Conditions, *Huaiheng Zhang, Wenjing Jia, Xiangjian He, Qiang Wu*

#### **Session 4C: Ad Hoc and Intelligent Networks II (Room C)**

Session Chair: *David Simplot-Ryl*

A Distributed Fairness Support Scheduling Algorithm in Wireless Ad Hoc Networks, *Yong-Qian Chen, Kwen-Mun Roh, Sang-Jo Yoo*

QoS Model for Improving End-to-End Service in 802.11e-Based Wireless Ad Hoc Networks, *Joo-Sang Youn, Seung-Joon Seok, Chul-Hee Kang*

Transmission Range Designation Broadcasting Methods for Wireless Ad Hoc Networks, *Jian-Feng Huang, Heng-Yan Chuang, Sheng-De Wang*

Bandwidth-Aware Multipath Routing Protocol for Mobile Ad Hoc Networks, *Zhi Zhang, Guanzhong Dai, Dejun Mu*

Adaptive Power-Aware Clustering and Multicasting Protocol for Mobile Ad Hoc Networks, *James Jiunn Yin Leu, Ming-Hui Tsai, Tzu-Chiang Chiang, Yueh-Min Huang*

Backtracking Based Handoff Rerouting Algorithm for WiMAX Mesh Mode, *Wenfeng Du, Weijia Jia, Wenyan Lu*

#### **Session 4D: Sensor Networks II (Room D)**

Session Chair: *Takashi Yoshino*

A Multipath Routing Algorithm for Wireless Sensor Networks, *Jinglun Shi*

Improved Dynamic Power Management in Wireless Sensor Networks, *Chuan Lin, Yanxiang He, Naixue Xiong, Laurence T. Yang*

A Fast Traffic Planning Algorithm in Lifetime Optimization of Sensor Networks, *Yantao Pan, Wei Peng, Xicheng Lu, Shen Ma, Peidong Zhu*

An Adaptive Coverage Algorithm for Large-Scale Mobile Sensor Networks, *Peng Guo, Guangxi Zhu, Liang Fang*

Adaptive Sink Mobility Management Scheme for Wireless Sensor Networks, *Kwang-il Hwang, Doo-seop Eom*

A Congestion Control Technique for the Near-Sink Nodes in Wireless Sensor Networks, *SungHyun Moon, SungMin Lee, HoJung Cha*

#### **12:00–13:00 Lunch**

#### **13:00–15:00 Concurrent Sessions 5A, 5B, 5C, 5D**

#### **Session 5A: Security, Safety and Privacy III (Room A)**

Session Chair: *Xia Xie*

A DRBAC Model Based on Context for Smart and Secure Services in Intelligent Ubiquitous Home, *JongHyuk Park, JiSook Park, SangJin Lee, ByoungSoo Koh*

Investigating Authentication Mechanisms for Wireless Mobile Network, *Binod Vaidya, YoungJin Kim, EungKon Kim, SeungJo Han*

M<sup>2</sup>AP: A Minimalist Mutual-Authentication Protocol for Low-Cost RFID Tags, *Pedro Peris-Lopez, Julio Cesar Hernandez-Castro, Juan M. Estevez-Tapiador, Arturo Ribagorda*

Context-Enhanced Authentication for Infrastructureless Network Environments, *Ryan Wishart, Jadwiga Indulska, Marius Portmann, Peter Sutton*

Location Privacy in Mobile Computing Environments, *John P. Baugh, Jinhua Guo*

Utilizing Secure Three Hop Links to Agree Pairwise Keys in Wireless Sensor Networks, *Gicheol Wang, Dongsun Park*

#### **Session 5B: Smart Spaces/Environments/Platforms III (Room B)**

Session Chair: *Xiaofei Liao*

RUIS: Development of Regional Ubiquitous Information System and Its Applications, *Susumu Konno, Kazuhide Koide, Shigeru Fujita, Tetsuo Kinoshita, Kenji Sugawara, Norio Shiratori*

Adaptive Service Delivery for Mobile Users in Ubiquitous Computing Environments, *Yong Zhang, Shensheng Zhang, Hongxia Tong*

An Effective Message Flooding Method for Vehicle Safety Communication, *Sukdea Yu, Gihwan Cho*

RDF:Stores - A Lightweight Approach on Managing Shared Knowledge, *Michael Schneider*

Vision Based Automatic Surveillance Towards a Smart Application, *Dong-liang Lee, Lawrence Y. Deng*

Handling Heterogeneous Device Interaction in Smart Spaces, *Daqing Zhang, Manli Zhu, Hengsen Cheng, Yen-kai Koh, Mounir Mokhtari*

### **Session 5C: Service Models, Personal/Social Factors III (Room C)**

*Session Chair: Carlos Ramos*

UPmP: A Component-Based Configurable Software Platform for Ubiquitous Personalized Multimedia Services, *Zhiwen Yu, Xingshe Zhou, Changde Li, Shoji Kajita, Kenji Mase*

An End User Tool for Customising Personal Spaces in Ubiquitous Computing Environments, *Jeannette Chin, Vic Callaghan, Graham Clarke*

Distributed Personal Storage System with Flexible Selection and Replication Mechanism, *Tomohiro Inoue, Motonori Nakamura*

Object Oriented vs. Agent-Based Oriented Ubiquitous Intelligent Mobile Managed e-Learning Environment, *Elaine McGovern, Rem Collier, Eleni Mangina*

Evolution of Ubi-Autonomous Entities, *Jason Hung, Kuan-Ching Li, Wonjun Lee, Timothy K. Shih*

Towards a Universal Knowledge Representation Language for Ubiquitous Intelligence Based on Mental Image Directed Semantic Theory, *Masao Yokota*

### **Session 5D: Sensor Networks III (Room D)**

*Session Chair: SingLing Lee*

Information-Driven Sensor Selection Algorithm for Kalman Filtering in Sensor Networks, *Yu Liu, Yumei Wang, Lin Zhang, Chan-hyun Youn*

TwinsNet: A Cooperative MIMO Mobile Sensor Network, *Qingquan Zhang, Woong Cho, Gerald E. Sobelman, Liuqing Yang, Richard Voyles*

Scalable and Low-Cost Acoustic Source Localization for Wireless Sensor Networks, *YoungBin You, HoJung Cha*

REDRP: Reactive Energy Decisive Routing Protocol for Wireless Sensor Networks, *Ying-Hong Wang, Yi-Chien Lin, Ping-Fang Fu, Chih-Hsiao Tsai*

Systolic Query Processing for Aggregation in Sensor Networks, *Suraj Pandey, Ho Seok Kim, Sang Hun Eo, Hae Young Bae*

Adapted Listening in Wireless Sensor Network MAC Protocol, *Zhen Fu, Yuan Yang, Tae-Seok Lee, Myong-Soon Park*

**15:00–17:00: Break**

**17:00–18:20 Concurrent Sessions 6A, 6B, 6C, 6D**

### **Session 6A: Smart Objects and Embedded Systems III (Room A)**

*Session Chair: Susumu Konno*

Architectures and Functions of the TMO Kernels for Ubiquitous & Embedded Real-Time Distributed Computing, *JungGuk Kim, MoonHae Kim, Shin Heu*

An Embedded System Design for Ubiquitous Speech Interactive Applications Based on a Cost Effective SPCE061A Micro Controller, *Po-Chuan Lin, Jhing-Fa Wang, Shun-Chieh Lin, Ming-Hua Mo*

Prototyping Object-Based Ubiquitous Multimedia Contents Storage for Mobile Devices, *Young Jin Nam*

CATA: A Garbage Collection Scheme for Flash Memory File Systems, *Longzhe Han, Yeonseung Ryu, Keunsoo Yim*

### **Session 6B: Pervasive Communication and Mobile Systems III (Room B)**

*Session Chair: Timothy K. Shih*

Adaptive Bridging with Portable Interceptor for Efficient Integration of Reflective Middleware, *Hyun Ko, Hee Yong Youn*

A Simulation Study Comparing the Performance of Two RFID Protocols, *Mamatha Nanjundaiah, Vipin Chaudhary*

FreeSpeech: A Novel Wireless Approach for Conference Projecting and Cooperating, *Wenbin Jiang, Hai Jin, Zhiyuan Shao, Qiwei Ye*

Performance Analysis of Unified Data Broadcast Model for Multi-Channel Wireless Databases, *Agustinus Borgy Waluyo, Bala Srinivasan, David Taniar, Wenny Rahayu, Bernady O. Apduhan*

### **Session 6C: Services, Models, Personal/Social Factors IV (Room C)**

*Session Chair: Qiangfu Zhao*

Resolving the Semantic Inconsistency Problem for Ubiquitous RFID Applications, *Dongwon Jeong, Younhee Han*

Location-Based Services for Tourism Industry: An Empirical Study, *Shuchih Ernest Chang, Ying-Jiun Hsieh, Chien-Wei Chen, Chun-Kuei Liao, Shiau-Ting Wang*

Towards Affective Collages of Presences, *Jesús Ibáñez, David García, Oscar Serrano, Josep Blat, Raquel Navarro*

Multi-Agent Approach for Ubiquitous Group Decision Support Involving Emotions, *Ricardo Santos, Goreti Marreiros, Carlos Ramos, José Neves, José Bulas-Cruz*

### **Session 6D: Context-Aware Computing and Systems III (Room D)**

*Session Chair: Zhiwen Yu*

Toward Context-Awareness: A Workflow Embedded Middleware, *Shaxun Chen, Yingyi Bu, Jun Li, Xianping Tao, Jian Lu*

Service Rendering Middleware (SRM) Based on the Intelligent LOD Algorithm, *Hakran Kim, Yongik Yoon, Hwajin Park*

Jini-Based Ubiquitous Computing Middleware Supporting Event and Context Management Services, *Seungyong Lee, Younglok Lee, Hyunghyo Lee*

Building a Frame-Based Interaction and Learning Model for U-Learning, *Nam-Kek Si, Jui-Feng Weng, Shian-Shyong Tseng*

**18:30–20:00 Supper**

## Sept. 6 (Wednesday)

**07:30–09:00 Breakfast**

**9:00–11:00 Concurrent Sessions 7A, 7C, 7D**

### **Session 7A: Security, Safety and Privacy IV (Room A)**

*Session Chair: Pedro Peris-Lopez*

ECGSC: Elliptic Curve Based Generalized Signcryption, *Yiliang Han, Xiaoyuan Yang, Ping Wei, Yuming Wang, Yupu Hu*

Effective Control of Abnormal Neighbor Discovery Congestion on IPv6 Local Area Network, *Gaeil An, Jaehoon Nah*

A Secure and Auto-Configurable Environment for Mobile Agents in Ubiquitous Computing Scenarios, *Javier López, Antonio Maña, Antonio Muñoz*

Connectivity Preservation and Key Distribution in Wireless Sensor Networks Using Multi-Deployment Scheme, *David Simplot-Ryl, Isabelle Simplot-Ryl*

A Practical Solution to the  $(t, n)$  Threshold Untraceable Signature with  $(k, l)$  Verification Scheme, *Jen-Ho Yang, Chin-Chen Chang, Chih-Hung Wang*

Automatic Trap Detection of Ubiquitous Learning on SCORM Sequencing, *Chun-Chia Wang, H. W. Lin, Timothy K. Shih, Wonjun Lee*

### **Session 7C: Ad Hoc and Intelligent Networks III (Room C)**

*Session Chair: Sheng-De Wang*

A Self-Tuning Reliable Dynamic Scheme for Multicast Flow Control, *Naixue Xiong, Yanxiang He, Laurence T. Yang, Yan Yang*

Intelligent Wireless Home Network Based on Cooperative DS-UWB System, *Jee-Hoon Kim, Hyoung-Kyu Song*

A New QoS Multicasting Routing Model and Its Immune Optimization Algorithm, *Jiangqing Wang, Jun Qin, Lishan Kang*

A Novel Collaborative Tier Scheme for Multihop Inter-Vehicle Communication Networks, *Xiaojuan Xu, Li Chang, Hanying Hu*

Performance Computation Model for IEEE 802.11e EDCF Wireless LANs, *Rongbo Zhu, Yuhang Yang*

Opportunistic Packet Scheduling over IEEE 802.11 WLAN, *Sung Won Kim*

### **Session 7D: Sensor Networks IV (Room D)**

*Session Chair: Hui-Huang Hsu*

Relay Shift Based Self-Deployment for Mobility Limited Sensor Networks, *Xiaoling Wu, Yu Niu, Lei Shu, Jinsung Cho, Youngkoo Lee, Sungyoung Lee*

Energy-Efficient Data Dissemination in Wireless Sensor Networks, *JiHan Jiang, KuoHua Kao, SingLing Lee*

Proposal of Visualization of Reasoning Processes in Sensor Network Environment, *Naoki Matsushita, Takashi Yoshino, Takashi Hattori, Kaoru Hiramatsu, Takeshi Okadome*

Energy-Efficient, Traffic-Adaptive, Fast Collision Resolution MAC for WSNs, *Younggoo Kwon*

Bidirectional Data Aggregation Scheme for Wireless Sensor Networks, *Sungrae Cho*

**11:00–12:00 Debarkation at Chongqing**

**12:00–13:00 Hot Pot**

# SCHEDULE FOR ATC-06

## Sept. 4 (Monday)

15:00–16:00 Concurrent Sessions 1E, 1F

### Session 1E: Autonomic/Organic Computing and Communications I (Room E)

Session Chair: [Xiaolin Li](#)

Towards a Standards-Based Autonomic Context Management System, *Jadwiga Indulska, Karen Henricksen, Peizhao Hu*

Formal Modeling and Verification of Systems with Self-x Properties, *Matthias Gäudemann, Frank Ortmeier, Wolfgang Reif*

A Novel Autonomic Rapid Application Composition Scheme for Ubiquitous Systems, *Junaid Ahsenali Chaudhry, Seungkyu Park*

### Session 1F: Reliability, Fault Tolerance and Dependable Systems I (Room F)

Session Chair: [Andrei Doncescu](#)

A Real-Time and Reliable Approach to Detecting Traffic Variations at Abnormally High and Low Rates, *Ming Li, Shengquan Wang, Wei Zhao*

A SCORM-Based Caching Strategy for Supporting Ubiquitous Learning Environment, *Yun-Long Sie, Te-Hua Wang, Hsuan-Pu Chang, Shu-Nu Chang, Timothy K. Shih*

FTCM: Fault-Tolerant Cluster Management for Cluster-Based DBMS, *Jae-Woo Chang, Young-Chang Kim*

17:00–18:00 Concurrent Sessions 2E, 2F

### Session 2E: Cryptography, Security and Privacy I (Room E)

Session Chair: [Benno J. Overeinder](#)

Source Authentication of Media Streaming Based on Chains of Iso-Hash Clusters, *Zhitang Li, Weidong Wang, Yejiang Zhang, Weiming Li*

Self-Certified Mutual Authentication and Key Exchange Protocol for Roaming Services, *Xiaowen Chu, Yixin Jiang, Chuang Lin, Fujun Feng*

Remote Authentication with Forward Security, *Zhenchuan Chai, Zhenfu Cao, Rongxing Lu*

### Session 2F: Trust Models and Trustworthy Systems/Services I (Room F)

Session Chair: [Jianhua Ma](#)

A Social Network-Based Trust Model for the Semantic Web, *Yu Zhang, Huajun Chen, Zhaohui Wu*

Fuzzy Model Tuning for Intrusion Detection Systems, *Zhenwei Yu, Jeffrey J.P. Tsai*

Ubisafe Computing: Vision and Challenges (I), *Jianhua Ma, Qiangfu Zhao, Vipin Chaudhary, Jingde Cheng, Laurence T. Yang, Runhe Huang, Qun Jin*

18:30–20:00: Supper

## Sept. 5 (Tuesday)

08:30–09:30 Concurrent Sessions 3E, 3F

### Session 3E: Autonomic/Organic Computing and Communications II (Room E)

Session Chair: [Wenbing Jiang](#)

Autonomic Interference Avoidance with Extended Shortest Path Algorithm, *Yong Cui, Hao Che, Constantino Lagoa, Zhimei Zheng*

Multi-Level Model-Based Self-Diagnosis of Distributed Object-Oriented Systems, *A. Reza Haydarlou, Benno J. Overeinder, Michel A. Oey, Frances M.T. Brazier*

From Components to Autonomic Elements Using Negotiable Contracts, *Hervé Chang, Philippe Collet, Alain Ozanne, Nicolas Rivierre*

### Session 3F: Trust Models and Trustworthy Systems/Services II (Room F)

Session Chair: [Noriaki Yoshikai](#)

An Integration Framework for Trustworthy Transactions, *Yonghwan Lee, Dugki Min*

Daonity: An Experience on Enhancing Grid Security by Trusted Computing Technology, *Fei Yan, Weizhong Qiang, Zhidong Shen, Chunrun Chen, Huanguo Zhang, Deqing Zou*

Toward Trust Management in Autonomic and Coordination Applications, *Yuan Wang, Feng Xu, Ye Tao, Chun Cao, Jian Lü*

10:00–12:00 Concurrent Sessions 4E, 4F

### Session 4E: Cryptography, Security and Privacy II (Room E)

Session Chair: [Isabelle Simplot-Ryl](#)

A Parallel GNFS Algorithm with Biorthogonal Block Lanczos for Integer Factorization, *Laurence T. Yang, Li Xu, Man Lin, John Quinn*

An Access-Control Policy based on Sharing Resource Management for a Multi-domains Environment, *Hong Zhu, Sujuan Duan, Fan Hong, Kevin Lü*

Efficient Signcryption without Random Oracles, *Qianhong Wu, Yi Mu, Willy Susilo, Fangguo Zhang*

Two Novel Packet Marking Schemes for IP Traceback, *Hanping Hu, Yi Wang, Lingfei Wang, Wenxuan Guo, Mingyue Ding*

A Novel Rate Limit Algorithm against Meek DDoS Attacks, *Yinan Jing, Xueping Wang, Xiaochun Xiao, Genduo Zhang*

Resistance Analysis to Intruders' Evasion of a Novel Algorithm to Detect Stepping-Stone, *Yongzhong Zhang, Jianhua Yang, Chunming Ye*

#### **Session 4F: Reliability, Fault Tolerance and Dependable Systems II (Room F)**

Session Chair: [Runhe Huang](#)

Fault-Tolerant Scheduling Based on Periodic Tasks for Heterogeneous Systems, *Wei Luo, Fumin Yang, Liping Pang, Xiao Qin*

Active Fault-Tolerant System for Open Distributed Computing, *Rodrigo Lanka, Kentaro Oda, Takaichi Yoshida*

A Time-Cognizant Dynamic Crash Recovery Scheme Suitable for Distributed Real-time Main Memory Databases, *Yingyuan Xiao, Yunsheng Liu, Xiangyang Chen, Xiaofeng Liu*

An Efficient Fault-Tolerant Digital Signature Scheme Based on the Discrete Logarithm Problem, *Iuon-Chang Lin, Chin-Chen Chang*

#### **13:00–15:00 Concurrent Sessions 5E, 5F**

#### **Session 5E: Autonomic/Organic Computing and Communications III (Room E)**

Session Chair: [Khaled Ragab](#)

Self-Configuration via Cooperative Social Behavior, *Wolfgang Trumler, Robert Klaus, Theo Ungerer*

Towards Ontology-Based Embedded Services, *Ghadi Mahmoudi, Christian MÄuller-Schloer*

TOBAB: A Trend-Oriented Bandwidth Adaptive Buffering in Peer-to-Peer Streaming System, *Sirui Yang, Hai Jin, Xuping Tu*

Interference-Aware Selfish Routing in Multi-Ratio Multi-Channel Wireless Mesh Networks, *Yanxiang He, Jun Xiao, Naixue Xiong, Laurence T. Yang*

Autonomic Group Location Update for Mobile Networks, *Lai Tu, Furong Wang, Fan Zhang, Jian Zhang*

Autonomic and Trusted Computing Paradigms, *Xiaolin Li, Hui Kang, Patrick Harrington, Johnson Thomas*

#### **Session 5F: Trust Models and Trustworthy Systems/Services III (Room F)**

Session Chair: [Zhen Liu](#)

Bayesian Network Based Trust Management, *Yong Wang, Vinny Cahill, Elizabeth Gray, Colin Harris, Lejian Liao*

An Improved Global Trust Value Computing Method in P2P System, *Fajiang Yu, Huanguo Zhang, Fei Yan, Song Gao*

Trusted Priority Control Design for Information Networks based on Sociotechnology, *Noriaki Yoshikai*

Autonomic Trust Management in a Component Based Software System, *Zheng Yan, Ronan MacLaverty*

A Risk Assessment Model for Enterprise Network Security, *Fu-Hong Yang, Chi-Hung Chi, Lin Liu*

A Security Management Framework with Roaming Coordinator for Pervasive Services, *Minsoo Lee, Sehyun Park, Sungik Jun*

#### **17:00–18:20 Concurrent Sessions 6E, 6F**

#### **Session 6E: Cryptography, Security and Privacy III (Room E)**

Session Chair: [Chunming Rong](#)

A New ID-Based Broadcast Encryption Scheme, *Chen Yang, Xiangguo Cheng, Wenping Ma, Xinmei Wang*

Automated Abduction for Computer Forensics, *Andrei Doncescu, Katsumi Inoue*

A Framework for Specifying and Managing Security Requirements in Collaborative Systems, *Stephen S. Yau, Zhaoji Chen*

#### **Session 6F: Trust Models and Trustworthy Systems/Services IV (Room F)**

Session Chair: [Jean Marc Seigneur](#)

A Dynamic Trust Model Based on Feedback Control Mechanism for P2P Applications, *Chenlin Huang, Huaping Hu, Zhiying Wang*

Automatic Composition of Secure Workflows, *Marc Lelarge, Zhen Liu, Anton V. Riabov*

TPOD: A Trust-Based Incentive Mechanism for Peer-to-Peer Live Broadcasting, *Yun Tang, Lifeng Sun, Jianguang Luo, Shiqiang Yang, Yuzhuo Zhong*

#### **18:30–20:00 Supper (Room F)**

### **Sept. 6 (Wednesday)**

#### **07:30–09:00 Breakfast**

#### **09:00–11:00 Concurrent Sessions 7B, 7E, 7F**

#### **Session 7B: Cryptography, Security and Privacy IV (Room B)**

Session Chair: [Tony Li Xu](#)

System Architecture and Economic Value-Chain Models for Healthcare Privacy and Security Control in Large-Scale Wireless Sensor Networks, *Won Jay Song, Im Sook Ha, Mun Kee Choi*

On Email Spamming under the Shadow of Large Scale Use of Identity-Based Encryption, *Christian Veigner, Chunming Rong*

Zero-Knowledge Proof of Generalized Compact Knapsacks (or A Novel Identification/Signature Scheme), *Bo Qin, Qianhong Wu, Willy Susilo, Yi Mu, Yumin Wang*

#### **Session 7E: Autonomic/Organic Computing and Communications IV (Room E)**

Session Chair: [Bernady O. Aduhan](#)

Autonomic K-Interleaving Construction Scheme for P2P Overlay Networks, *Khaled Ragab, Akinori Yonezawa*

Self Awareness and Adaptive Traffic Signal Control System for Smart World, *Lawrence Y. Deng, Dong-liang Lee*

Development and Runtime Support for Situation-Aware Security in Autonomic Computing, *Stephen S. Yau, Yisheng Yao, Min Yan*

#### **Session 7F: Trust Models and Trustworthy Systems/Services V (Room F)**

Session Chair: [Deqing Zou](#)

A Group Based Reputation System for P2P Networks, *Huirong Tian, Shihong Zou, Wendong Wang, Shiduan Cheng*

An Approach for Trusted Interoperation in a Multidomain Environment, *Yuqing Sun, Peng Pan, Xiangxu Meng*

Extracting Trust from Domain Analysis: A Case Study on the Wikipedia Project, *Pierpaolo Dondio, Stephen Barrett, Stefan Weber, Jean Marc Seigneur*

MTrust: A Reputation-Based Trust Model for a Mobile Agent System, *Suphithat Songsiri*

PATROL-F - A Comprehensive Reputation-Based Trust Model with Fuzzy Subsystems, *Ayman Tajeddine, Ayman Kayssi, Ali*

*Chehab, Hassan Artail*

**11:00–12:00 Debarkation at Chongqing**

**12:00–13:00 Hot Pot**

**Notice: This section just provides schedule information of sessions. About other information of ATC schedule, please refer to *SCHEDULE FOR UIC-06*.**

# MAP OF WUHAN



## Conference Venue (Before Sept 3rd Noon): *Lake View Garden Hotel*

**Address:** No.115 Luoyu Road Wuchang

**Tel:** (86-27)87782888

**Fax:** (86-27)87448967

30km to Wuhan Tianhe airport

5km to Wuchang railway station

15km to Hankou railway station

1)Taxi fee: about RMB120 or US\$15

2)Take airport bus to Fujiapo in Wuchang (cost RMB30), then take taxi to LVGH (cost about RMB15)

Taxi fee: about RMB25 or US\$3

Taxi fee: about RMB60 or US\$8

# MAP OF CHONGQING



## Important Locations at Chongqing:

**Chongqing Airport (CKG):** About 21 km (about 13 miles) northeast from the suburb area, the Lianglu Town, Yubei District of the city;

**Railway Station:** The juncture of three main national trunk lines: the Chuanqian Railroad, the Chengyu Railroad and the Xiangyu Railroad;

**Chaotianmen Docks:** Our cruise will stop at this site;

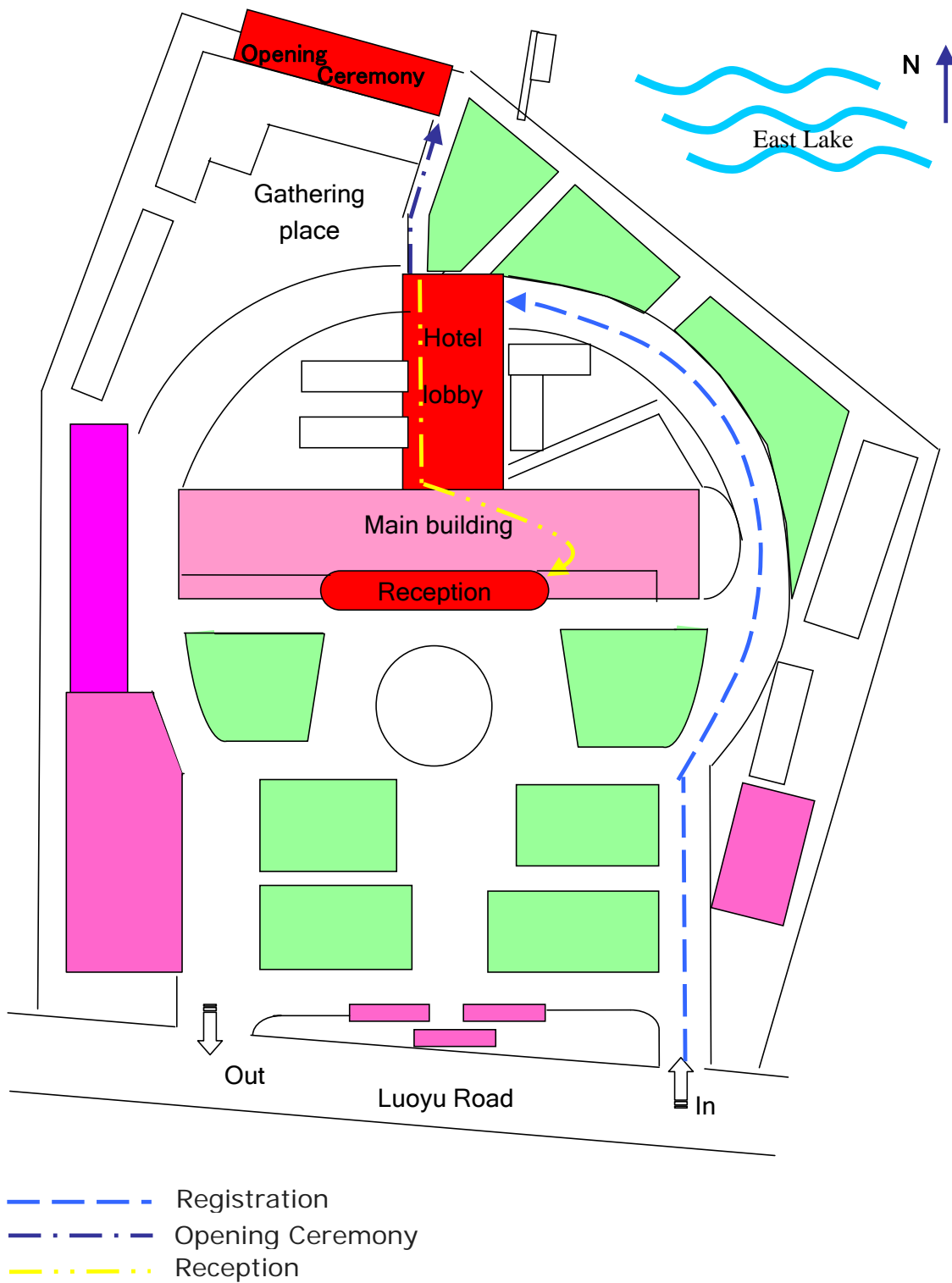
**Hilton Hotel:** A Five-Star Hotel, Zhongshan San Road, Yuzhong District, Chongqing;

**Harbour Plaza Hotel:** A Five-Star Hotel, Wuyi Road, Yuzhong District, Chongqing;

**Chongqing Marriott:** A Five-Star Hotel, 77 Qingnian Road, Yuzhong District, Chongqing;

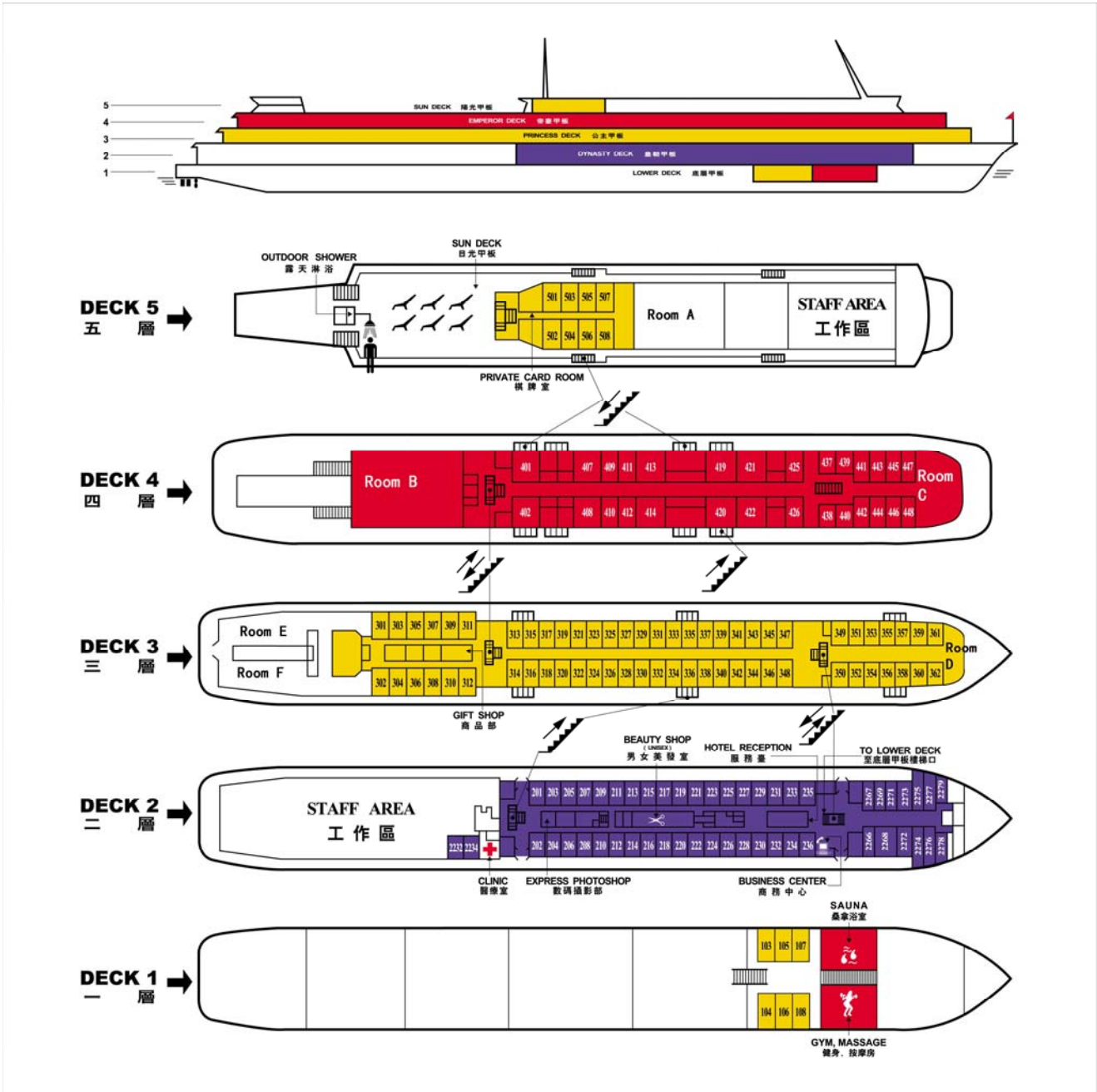
**"Hot Pot" restaurant:** It's near Chaotianmen Docks.

# PLAN OF RECEPTION & OPENING CEREMONY



*Lake View Garden Hotel*

# FLOORPLAN OF CONFERENCE VENUE



Room A – Room D: Used for session xA-xD, which belong to UIC-06 except session 7B (In ATC-06);  
 Room E – Room F: Used for session xE-xF, which belong to ATC-06.