

---

## **Greeting from General Chairs**

---

Dear ICSOC 2012 participant,

We would like to welcome you to Shanghai, and welcome to ICSOC 2012. It is the 10th edition of this international event in the area of service oriented computing. We are honored and privileged to host this prestigious conference in the field.

As in the previous years, the ICSOC 2012 program is an exciting showcase of recent development in the field, which consists of 6 workshops, one PhD symposium, 3 keynote speeches, a panel discussion and the presentation of very high quality papers.

ICSOC this year is hosted in Fudan University, which is one of the famous and most selective universities in China. Walking on the campus, we hope you could find some old charm in traditional Chinese architecture and garden.

Shanghai is a modern city with an amazing history. It is a city that offers a mixture of styles from past to modern, from western to oriental. For example, Yuyuan Garden is the largest ancient garden of Shanghai with Ming and Qing Dynasty architecture style. Near the garden, there is the City God Temple, which erected in 1602 for its important economic position. And of course we can see many important landmarks developed recently near the bund.

We would like to take this opportunity to thank all the members of the committees for the excellent job they have done in the preparation of this very exciting program. We also like to thank our sponsors for their valuable support to the conference, especially in this financially difficult time.

We wish you a fruitful and enjoyable stay and we sincerely hope you will find some free time to explore and enjoy Shanghai and its surroundings.

Jian Yang  
Liang Zhang

ICSOC2012 general co-chairs  
2012-11-12

---

---

## Keynotes and Panel

---

### KEYNOTE 1: Rapid Rise and Evolution of Cloud Computing – How Will It Affect Web Services?

---

#### Abstract

Cloud computing is currently at the phase of rapid commercial, technical and conceptual development. The sales volume reached billions of dollars, growing yearly in double digits - and investment into cloud computing is growing even faster. But cloud computing is more than just a commercial phenomenon. The needs of traditional information processing were augmented by ever growing volume and functionality of mobile devices, cross-platform availability of services and ever ascending social and business inter-connectivity. The new technical and commercial realities will influence the way web services are designed, implemented and delivered and that will apply to both existing and new services. This is not just about quantitative change this is a qualitative change, with new concepts reshaping and replacing the old ones.

This talk will start with the brief background on why cloud computing is inevitable for technical and economic reasons and which types of use are most affected by it. That will be followed by a summary of the major competitors in the area of cloud computing, their strategies and approaches to solve the problems of service implementation and delivery. We will describe infrastructure problems, solutions and. Opportunities as well as the effects of these changes on software development and structuring of solutions to take advantage of cloud architecture and functionality. We will also consider how transient some trends are in this field and what are possible scenarios for future development.



**Bio:** Dr. Charles Loboz grew up in Poland and graduated with MSc in Nuclear Physics. After working for few years in the area of scientific computing, he obtained his PhD in Computer Science from the Australian National University. Dr. Loboz worked for UNISYS in the area of transaction processing systems authoring multiple patents architectural and performance analysis areas. After a brief episode with a start-up company he joined Microsoft as a Principal Capacity Planning Engineer in Global Foundation Services – a division responsible for building and operating Microsoft data centres worldwide. Two years ago Dr. Loboz moved to Windows Azure as a

Principal Architect, Capacity Planning. He has published occasional papers in both scientific and industry conferences and currently holds 10 patents, with few more patent applications in processing.

---

## KEYNOTE 2: Cloud? It is all about Services

---

### Abstract

Ever since the term Cloud Computing became a hot item, people have tried to paint and shape the clouds in various ways, often from the angles where they came from. Hardware and software companies will say that Cloud is the ultimate virtualization of systems. Data Center folks will argue that Cloud will provide the best energy efficiency. Security people will argue that cloud will not fly until the concern on security is eased. Then there are private clouds, public clouds, hybrid clouds, government clouds, education clouds, etc. Cloud is an area where the industries started the implementation first, while the academia in general was caught behind. When all the cloudy notions are clear, it is all about services. In fact, it is all about service engineering and management. In this presentation, the speaker will discuss the service science principles related to cloud, and the challenges of Cloud services, in the context of service engineering and service management, as well as the business implications. Academia institutions embracing the notion of Service Sciences or Serviceology beyond the traditional disciplines will be in better position to contribute and influence the future cloud agenda.



**Bio:** Dr. James T. Yeh is currently an independent researcher and consultant. Before August 2012, he was Director of Strategy, at Corporate Strategy of IBM. His primary role was to address strategic elements of IBM's businesses for achieving growth in emerging markets, including Cloud Computing. He was Chief Technology Officer of IBM Greater China Group during 2006-2008. Between 1999 and 2006, he was Director of IBM China Research Laboratory and led research activities related to Service Science and engineering, information analytics, business optimization, e-business enabling technologies, knowledge management, pervasive computing infrastructure, and human information interactions. Dr. Yeh was born in Nanjing, China. He received his Ph. D. from

University of Pennsylvania in 1975. He joined IBM Research in 1977 to explore advanced circuits and materials. During the 80's, he researched on advanced manufacturing technologies and processes. His team developed nanometer scale diagnosis systems for manufacturing quality improvement, including the Magnetic Force Microscopy and Atomic Force Microscopy. He led the industry solutions and business research at the IBM T. J. Watson Research Center during the late '90's. The pioneering work of business analytics span from business modeling, production planning and scheduling, demand forecasting and management, intelligent decision support, and integrated supply chain. Dr. Yeh was one of the recipients of 1998 D. Wagner Award for excellence in operations research. He has seven plateaus of invention achievement. He was appointed Director of IBM China Research Lab in 1999. He was vice chair of the Supply Chain Council, China Chapter, during 2005 and 2006. Dr. Yeh was guest professor at Harbin Institute of Technology, Zhejiang University, and Lifetime Honorary Professor at Xian Jiaotong University. He was vice chair of the Cloud Computing Expert Group of Chinese Institute of Electronics between November 2008 - 2010.

---

Since 2005, Dr. Yeh has been both an avid researcher and an advocate for Service Science in the Asia Pacific area. He was the brain trust in creating the initial International Symposia on Service Science, Management, and Engineering in 2005 and 2006, which later became International Conference on Service Sciences (ICSS). He served as an Advisor to PRC Ministry of Education Service Science Experts Committee. He was General Chair of 2010 International Conference on Services Sciences (ICSS2010), co-chair of the First International Conference on Service Sciences and Innovation (ICSSI, 2009), and delivered keynote speeches at International Conference on E-Commerce 2009 (Challenges of Service Science for eCommerce Innovation) and at many other conferences. In the area of Cloud Computing, he delivered the keynote speech at CloudCom 2009 (The Many Colors and Shapes of Cloud).

---

## KEYNOTE 3: Challenges in Service Modeling, Composition, and Analysis

---

### Abstract

Arguably, the greatest impact from the decade old web services research is the formulation of the SOA principle. Indeed, SOA is turning into a philosophy to guide the thinking for modern software system design in application contexts from cloud computing, social network, to business process management. Technically, this philosophy demands independence of conceptual design considerations from implementation level limitations.

A necessary road to achieve independence is through high degree of automation in design, analysis, implementation, and evolution aspects. Clearly, formalization plays a vital role in developing service composition design and analysis tools. Service modeling refers to development of appropriate technical models that enable effective design and analysis techniques. In this talk, we explore key technical challenges in formal modeling for services.



**Bio:** Jianwen Su is currently a Professor of Computer Science at the University of California, Santa Barbara. He received both B.S. and M.S. in computer science from Fudan University and Ph.D. in computer science from University of Southern California. He held visiting positions at INRIA and Bell Labs and is an adjunct professor at Fudan and Donghua Universities in China. He has published in a wide range of topics including data modeling and query languages, scientific and spatial data management, formal verification, web services, and BPM/workflow. His work on web service composition and analysis and on artifact-centric business workflow is widely known. Dr. Su received IBM Faculty Awards (2007, 2008). He served on program committees of many conferences in the areas of databases (e.g., PODS, ICDT, VLDB, ICDE, etc.) and service-oriented computing and BPM (e.g., ICSOC, BPM, ICWS, CEC, etc.). He was the general chair of SIGMOD 2001, the PC chair of PODS 2009, a program co-chair of workshop/conferences including WS-FM 2009 and MDM 2007. He also served on the Executive Committees of both ACM SIGMOD and PODS.

---

## PANEL: Cloud or Not Cloud

---

Panellists: Kamal Bhattacharya  
Yiwei Chen  
Schahram Dustdar  
Stefan Tai  
Jianwen Su  
Cesare Pautasso

### Brief Bios of Panellists:

**Kamal Bhattacharya** is the director of the IBM Research - Africa lab, headquartered in Nairobi, Kenya. The recently announced lab will focus on Next Generation Public Sector, Smarter Cities and Human Capability development. In his previous role he was the Senior Manager at IBM Research- India, Bangalore focusing on topics around Cloud Computing, especially application migration to the Cloud, IT services delivery in the context of IT outsourcing and social computing in the enterprise. Before joining IBM Research - India, Kamal lead a team at IBM Watson Research, NY, US, exploring new ideas in the area of IT Optimization with a focus on data center consolidation and application migration. Prior to that he has been working as a Research Staff Member at Watson in the Model-driven Business Transformation team. Dr. Bhattacharya has received three IBM Outstanding Technical Achievement Award and several IBM Research Division awards for his work. Furthermore, he has received several best paper awards at international conferences for his contributions in the area of business process management and IT service management. Kamal is an elected member of the IBM Academy of Technology. Kamal started his career at IBM as an IT architect at IBM Global Services in Germany. He graduated with a PhD in Theoretical Physics from Goettingen University, Germany, in 1999.

**Yiwei Chen** is a Senior Engineering Director with Telenav Inc. and in charge of its Shanghai Development Center. Telenav is a leader in personalized and cloud based navigation company based in Sunnyvale, California. Prior to Telenav, Yiwei served Google Inc. as a Technical Director in charge of Asia Pacific Partner Engineering, and also served BEA Systems (acquired by Oracle) as the Principle Architect for Asia Pacific. Yiwei has extensive experience in Cloud and Service-Oriented Architecture practices. His technical interests span from Cloud Computing, SOA, LBS, Search, Advertisement, Big Data & Analytics, to Computer Graphics and Neural Networks. He possesses working knowledge with Internet services, mobile applications, telecommunications, financial services, oil and gas, energy and utilities, healthcare, and high-tech manufactures across both North America and Asia Pacific. Yiwei received his PhD degree in computer science from University of Houston, Texas, and MS degree in computer science from Fudan University in Shanghai.

**Schahram Dustdar** is Full Professor of Computer Science (Informatics) with a focus on Internet Technologies heading the Distributed Systems Group. He is an ACM Distinguished Scientist

---

(2009) and was awarded the IBM Faculty Award (2012). Dustdar is Editor-in-Chief of Computing (Springer), an SCI-ranked journal, an Associate Editor of IEEE Transactions on Services Computing (TSC), and an Editorial Board member and Department editor for IEEE Internet Computing.

**Stefan Tai** is Professor at the Karlsruhe Institute of Technology (KIT). Stefan is also Director at the FZI Research Center for Information Technology in Karlsruhe, and Scientific Director of the FZI offices in Berlin. Stefan does research in the areas of Service Computing and Cloud Computing, in particular, on systems and tools for managing non-trivial qualities of cloud services and service compositions.

**Jianwen Su** is a Professor at University of California, Santa Barbara. He received B.S./M.S. from Fudan University and Ph.D. from University of Southern California. His research interests include data modeling and query languages, scientific and spatial data management, formal verification, web services, and business workflow. He served on program committees of many conferences in the areas of databases and service-oriented computing. He was the general chair of SIGMOD 2001, the PC chair of PODS 2009, a program co-chair of several conferences and workshops.

**Cesare Pautasso** is assistant professor at the Faculty of Informatics at the University of Lugano, Switzerland. Previously he was a researcher at the IBM Zurich Research Lab and a senior researcher at ETH Zurich, where he received his PhD in 2004. His research group focuses on building experimental systems to explore the intersection of model-driven software composition techniques, business process modelling languages, and autonomic/Cloud computing. He was the general chair of ECOWS 2011 and started the WS-REST workshop series at the WWW conference. He recently co-authored a book on SOA with REST published by Prentice Hall.



---

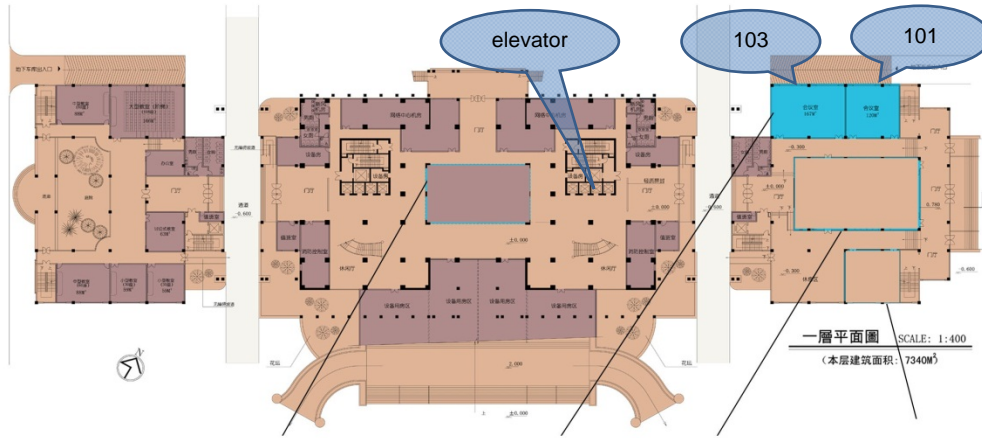
## **Monday, 12 November 2012**

### **Workshops and PhD Symposium**

---

- ASC 2012: The 1<sup>st</sup> International Workshop on Analytics Services on the Cloud  
Chairs: Yu Deng, Liangzhao Zeng  
(8:50am – 4:00pm Guanghua Building, East Annex, Meeting Room 103)
- DISA 2012: 2012 International Workshop on Data Intensive Services based Application  
Chairs: Ying Li, Shiyong Lv, Shuiguang Deng  
(9:20am – 3:00pm Guanghua Building Meeting Room 404)
- PAASC 2012 : 2<sup>nd</sup> International Workshop on Performance Assessment and Auditing in Service Computing 2012,  
Chair: Claudia-Melania Chituc  
(8:45am – 12:00pm Guanghua Building Meeting Room 405)
- SCEB 2012: 1<sup>st</sup> Workshop on Service Clouds in the Enterprise and Beyond  
Chairs: Hua Liu, Lam-Son Le, Alex Norta,  
(9:00am – 4:30pm Guanghua Building Meeting Room 406)
- SeMaPS 2012 : 1<sup>st</sup> International Workshop on Self-Managing Pervasive Service Systems  
Chairs: Weishan Zhang, Klaus Marius Hanen, Paolo Bellavista  
(8:50am – 4:30pm Guanghua Building, Meeting Room 408)
- WESOA 2012: 8<sup>th</sup> International Workshop on Engineering Service-Oriented Applications  
Chairs: George Feuerlicht, Howard Foster, Winfried Lamersdorf, Guadalupe Ortiz  
(9:00am – 5:00pm Guanghua Building, East Annex, Meeting Room 101)
- PhD Symposium  
Chairs: Olivier Perrin, Jianmin Wang, Yan Wang  
(1:30pm – 5:00pm Guanghua Building Meeting Room 405)

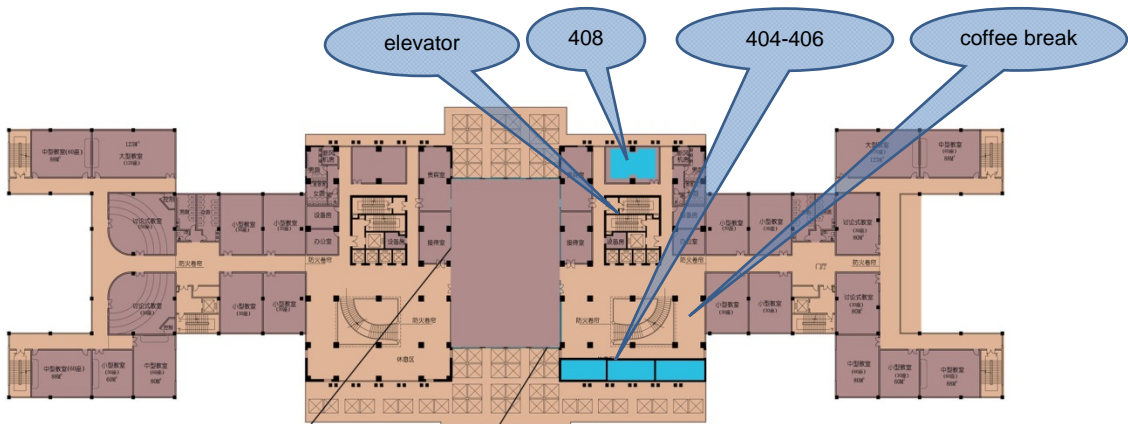
# FLOOR PLAN (GUANGHUA BUILDING)



一層平面圖



## 1<sup>st</sup> Floor (Guanghua Building, East Annex)



四层平面圖



## 4<sup>th</sup> Floor (Guanghua Building)

---

## ASC 2012: The 1<sup>st</sup> International Workshop on Analytics Services on the Cloud

**Chairs: Yu Deng, Liangzhao Zeng**

**(8:50am – 4:00pm Guanghua Building, East Annex, Meeting Room 103)**

- 8:50am-9:00am      Opening ASC 2012
- 9:00am-9:30am      A Performance Evaluation of Public Cloud Using TPC-C.  
*Jinhui Yao, Alex Ng, Shiping Chen, Dongxi Liu, Carsten Friedrich and Surya Nepal*
- 9:30am-10:00am    An Efficient Data Maintenance Strategy for Data Service Mashup Based on Materialized View Selection.  
*Peng Zhang, Yanbo Han and Guiling Wang*
- 10:00am-10:30am    Coffee break (on the 4<sup>th</sup> floor of Guanghua Building)
- 10:30am-11:00am    Homomorphic-Encryption-Based Separation Approach for Outsourced Data Management.  
*Yang Zhang and Jun-Liang Chen*
- 11:00am-11:30am    Protecting Software as a Service in the Clouds by Validation.  
*Tien-Dung Cao and Kevin Chiew.*
- 11:30am-12:00pm    Identifying Fake Feedback for Effective Trust Management in Cloud Environments.  
*Talal H. Noor, Quan Z. Sheng, Abdullah Alfazi, Jeriel Law and Anne H.H. Ngu.*
- 12:00pm-1:30pm     Lunch (at Fuxuan Hotel)
- 1:50pm-2:20pm      A Workflow Model for Interactive Mobile Cloud Applications.  
*Verdi March, Yan Gu and Bu Sung Lee. Sonata*
- 2:20pm-2:50pm      A Hybrid-Cloud Unstructured Information Platform for Full Automation of Service Composition, Scalable Deployment and Evaluation.  
*Yoshinobu Kano. Kachako: Kachako*
- 3:00pm-3:30pm      Coffee break (on the 4<sup>th</sup> floor of Guanghua Building)
- 3:30pm-4:00pm      Closing ASC 2012

---

## **DISA 2012: International Workshop on Data Intensive Services based Application**

**Chairs: Ying Li, Shiyong Lv, Shuiguang Deng**

**(9:20am – 3:00pm Guanghua Building Meeting Room 404)**

- 9:20am-9:30am      Opening DISA 2012
- 9:30am-10:00am    An End-User Oriented Approach for Business Process Personalization from Multiple Sources  
*Sida Xue, Budan Wu and Junliang Chen*
- 10:00am-10:30am    Coffee break
- 10:30am-11:00am    A Combination Approach for QoS Prediction of Web Service  
*Menmen Wu, Dongjing Yu and Yin Yuyu*
- 11:00am-11:30am    Effective and Efficient Web Reviews Extraction Based on Hadoop  
*Jian Wan, Jiawei Yan and Congfeng Jiang*
- 12:00pm-1:30pm    Lunch (at Fuxuan Hotel)
- 1:30pm-2:00pm      Intelligent Information Management of Tourist Attractions based on Semantic Sensor Web  
*Xiaoming Zhang, Wanzhen Zhou and Yongqiang Zhang*
- 2:00pm-2:30pm      An Optimal QoS-based WSMO Web Service Composition Approach using Genetic Algorithm  
*Zhou Xiangbing*
- 2:30pm-3:00pm      Ending DISA 2012
- 3:00pm -3:30pm      Coffee break

---

**PAASC 2012: 2<sup>nd</sup> International Workshop on Performance  
Assessment and Auditing in Service Computing**

**Chair: Claudia-Melania Chituc**

**(8:45am – 12:00pm Guanghua Building Meeting Room 405)**

- 8:45am-9:00am      Opening PAASC 2012
- 9:00am-9:30am      Definition of a Framework Supporting High Level Reliability of  
Services  
*Firmino Silva and Claudia-Melania Chituc*
- 9:30am-10:00am    A Service-Oriented Approach to Assess the Value of Digital  
Preservation  
*Claudia-Melania Chituc and Petra Ristau*
- 10:00am-10:30am    Coffee break
- 10:30am-11:00am    Specification and Deployment of Distributed Monitoring and  
Adaptation Infrastructures  
*Christian Inzinger, Benjamin Satzger, Waldemar Hummer  
and Schahram Dustdar*
- 11:00am-11:30am    Introducing the Vienna Platform for Elastic Processes  
*Stefan Schulte, Philipp Hoenisch, Srikumar Venugopal and  
Schahram Dustdar*
- 11:30am-11:55am    Open Discussion on selected topics.
- 11:55am-12:00pm    Closing PAASC 2012.
- 12:00pm-1:30pm     Lunch (at Fuxuan Hotel)

---

## **SCEB 2012: 1<sup>st</sup> Workshop on Service Clouds in the Enterprise and Beyond**

**Chairs: Hua Liu, Lam-Son Le, Alex Norta,**

**9:00am – 4:30pm Guanghua Building Meeting Room 406)**

- 09:00am-09:30am TrustVis: A Trust Visualisation Service for Online Communities  
*Sanat Kumar Bista, Payam Aghaei Pour, Nathalie Colineau, Surya Nepal, Cecile Paris*
- 09:30am-10:00am Crowd-Sourcing Service Designs: Overview and Research Challenges  
*Nidhi Rajshree, Bikram Sengupta and Nirmitt V. Desai*
- 10:00am-10:30am Coffee break
- 10:30am-11:30am KEYNOTE: "Cloud Services Life Cycle Intelligence"  
*Boualem Benatallah*
- 12:00pm-1:30pm Lunch (at Fuxuan Hotel)
- 01:30pm-02:00pm Towards an Architectural Framework for Service-Oriented Enterprises  
*Nanjangud Narendra, Lam-Son Le, Aditya Ghose and Gandhi Sivakumar.*
- 02:00pm-02:30pm Monitoring Business Process Interaction  
*Nico Herzberg, Matthias Kunze and Mathias Weske.*
- 02:30pm-03:00pm Interactive Product Browsing and Configuration using Remote Augmented Reality Sales Services  
*Ross Brown, Helen Paik and Alistair Barros*
- 03:00pm-03:30pm Coffee break
- 03:30pm-04:30pm Discussion and planning for SCEB'13

---

## **SeMaPS 2012: 1<sup>st</sup> International Workshop on Self-Managing Pervasive Service Systems**

**Chairs: Weishan Zhang, Klaus Marius Hanen, Paolo Bellavista  
(8:50am – 4:30pm Guanghua Building, Meeting Room 408)**

- 8:50am-9:00am      Opening SeMaPS 201
- 9:00am-10:00am    Keynote 1: *by Prof. Zhongwen Guo*
- 10:00am-10:30am    Coffee break
- 10:30am-10:55am    A Reformative System Architecture of Cloud Service Based on IEEE 1851  
*Mingxing Jiang, Zhongwen Guo and Chao Liu*
- 10:55am-11:20am    Towards RESTful Communications in Self-Managing Pervasive Systems  
*Meherun Nesa Lucky, Christina Tziviskou and Flavio De Paoli*
- 11:20am-11:55am    A Research Roadmap for Context-Awareness-based Self-Managed Systems  
*Weishan Zhang, Klaus Marius Hansen, Paolo Bellavista*
- 12:00pm-1:30pm    Lunch (at Fuxuan Hotel)
- 1:30pm-2:30pm      Keynote 2: *by Prof. Zhiwen Yu*
- 2:30pm-3:00pm      A 3D Model based Action Recorder using Computer Vision  
*Yong Li, Yuan Rao, Youxiang Duan, and Weishan Zhang*
- 3:00pm-3:30pm      Coffee break
- 3:30pm-3:55pm      Protecting Sensitive Attributes in Attributed Based Access Control  
*Guoping Zhang, Jing Liu and Jianbo Liu*
- 3:55pm-4:20pm      A Hybrid Indoor Positioning Approach for Supermarkets  
*Weishan Zhang, Yuhao Wang, Licheng Chen, Yan Liu and Yuan Rao*
- 4:20pm-4:30pm      Ending SeMaPS 2012

---

## **WESOA 2012: 8th International Workshop on Engineering Service-Oriented Applications**

**Chairs: George Feuerlicht, Howard Foster, Winfried Lamersdorf, Guadalupe Ortiz**

**(9:00am – 5:00pm Guanghua Building, East Annex, Meeting Room 101)**

- 9:00am–9:15am Welcome by workshop chairs
- 9:15am–10:00am Keynote: Managing Requirements Evolution in Service Oriented System  
*Didar Zowghi*
- 10:00am-10:30am Coffee break (on the 4<sup>th</sup> floor of Guanghua Building)
- 10:30am-11:00am Towards Automated and Correct Composition of Timed Services  
*Daniel Stöhr, Sabine Glesner*
- 11:00am-11:30am Resolving Violations in Inter-Process Relationships in Business Process Ecosystems  
*Tri Astoto Kurniawan, Aditya K. Ghose, Lam-Son Le*
- 11:30am-12:00pm An Aspect-oriented Approach to Enforce Security Properties in Business Processes  
*Inaya Yahya, Sameh Hbaieb Turki, Anis Charfi, Slim Kallel, Rafik Bouaziz*
- 12:00pm-1:30pm Lunch (at Fuxuan Hotel)
- 1:30pm-2:00pm Evaluation of Quality of Design for Document-centric Software Services  
*George Feuerlicht*
- 2:00pm-2:30pm Resource Management for Pervasive Systems  
*Jacky Estublier, German Vega, Elmehdi Damou*
- 2:30pm-3:00pm Service Oriented Requirements Engineering: Practitioner's Perspective  
*Muneera Bano Sahibzada, Didar Zowghi*
- 3:00pm-3:30pm Coffee break (on the 4<sup>th</sup> floor of Guanghua Building)
- 3:30pm–4:00pm Planning and Workshop Summary



---

## PhD Symposium

**Chairs: Olivier Perrin, Jianmin Wang, Yan Wang**

**(1 :30pm – 5 :00pm Guanghai Building Meeting Room 405)**

- |               |   |
|---------------|---|
| 1:30pm-2:00pm | Data Consistency Enforcement on Business Process Transactions<br><i>Xi, Liu</i>             |
| 2:00pm-2:30pm | An Auction-based Approach for Composite Web Service Selection<br><i>Mahboobeh Moghaddam</i> |
| 2:30pm-3:00pm | Data-centric Probabilistic Process System<br><i>Haizhou Li</i>                              |
| 3:00pm-3:30pm | Coffee break  |
| 3:30pm-4:00pm | Detection of SOA Antipatterns<br><i>Francis Palma</i>                                       |
| 4:00pm-4:30pm | Requirements-Driven Software Service Evolution<br><i>Fenglin, Li</i>                        |
| 4:30pm-5:00pm | Detecting Runtime Business Process Compliance with Artifact lifecycles<br><i>Qi He</i>      |

---

**ICSOC 2012**  
**Tuesday, 13 November 2012 (Day 1 of 3)**

---

	<b>Conference Hall</b>	<b>No. 2 Meeting Room</b>
8:45am - 10:00am	<b>Welcome and Keynote 1:</b> Dr. Charles Lobo (Microsoft) Chair: Chengfei Liu	
10:00am - 10:30am	<b>Coffee Break</b>	
10:30am - 12:00pm	<b>Research Paper Session: Service Engineering 1</b> Chair: Hamid Reza Motahari-Nezhad	<b>Research Paper Session: Service Management 1</b> Chair: Flavio De Paoli
12:00pm - 1:30pm	<b>Lunch Break (Fuxuan Hotel)</b>	
1:30pm - 3:00pm	<b>Research Paper Session: Cloud</b> Chair: Stefan Tai	<b>Industrial Paper Session: Service Applications</b> Chair: Yan Wang
3:00pm - 3:30pm	<b>Coffee Break</b>	
3:30pm - 4:50pm	<b>Research Short Paper Session: Service Composition and Choreography</b> Chair: Gerald Kotonya	<b>Research Short Paper Session: Process Management</b> Chair: Jenny Yan Liu

---

## **Service Engineering 1**

Specification and Detection of SOA Antipatterns

*Naouel Moha, Francis Palma, Mathieu Nayrolles, Benjamin Joyen Conseil, Yann-Gaël Guéhéneuc, Benoit Baudry, Jean-Marc Jézéquel*

Verification of GSM-based artifact-centric systems through finite abstraction

*Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi*

Service Component Architecture Extensions for Dynamic Systems

*Joao Claudio Americo, Didier Donsez*

## **Service Management 1**

Who Do You Call? Problem Resolution Through Social Compute Units

*Bikram Sengupta, Anshu Jain, Kamal Bhattacharya, Hong-Linh Truong, Schahram Dustdar*

Relationship-preserving Change Propagation in Process Eco-systems

*Tri Astoto Kurniawan, Aditya K. Ghose, Hoa Khanh Dam, Lam-Son Le*

Scheduling Service Tickets in Shared Delivery

*Hari S. Gupta, Bikram Sengupta*

## **Service Applications (Industry Papers)**

RETRaiN: A REcommendation Tool for Reconfiguration of RetAil BaNk Branch

*Rakesh Pimplikar, Sameep Mehta*

Automate back office activity monitoring to drive operational excellence

*Miao He, Tao Qin, Changrui Ren, Sai Zeng, Lei Yuan*

A Service Oriented Architecture for Exploring High Performance Distributed Power Models

*Yan Liu, Jared Chase, Ian Gorton*

## **Cloud**

Programming Hybrid Services in the Cloud

*Hong-Linh Truong, Schahram Dustdar, Kamal Bhattacharya*

QoS-Aware Cloud Service Composition based on Economic Models

*Zhen Ye, Athman Bouguettaya, Xiaofang Zhou*

Cloud Service Selection based on Variability Modeling

*Erik Wittern, Jörn Kuhlenkamp, Michael Menzel*

---

### **Service Composition & Choreography (Short Papers)**

Ensuring Well-formed Conversations Between Control and Operational Behaviors of Web Services

*Scott Bourne, Claudia Szabo, Quan Sheng*

Variability in Service-Oriented Systems: An Analysis of Existing Approaches

*Holger Eichelberger, Christian Kröher, Klaus Schmid*

A Symbolic Framework for the Conformance Checking of Value-Passing Choreographies

*Huu Nghia Nguyen, Pascal Poizat, Fatiha Zaïdi*

Service Composition Management Using Risk Analysis and Tracking

*Shang-Pin Ma, Ching-Lung Yeh*

### **Process Management (Short Papers)**

Assisting Business Process Design by Activity Neighborhood Context Matching

*Nguyen Ngoc Chan, Walid Gaaloul, Samir Tata*

Case Management in the Social Enterprise

*Hamid Reza Motahari-Nezhad, Claudio Bartolini, Sven Graupner, Susan Spence*

Automating Form-based Processes through Annotation

*Sung Wook Kim, Hye-Young Paik, Ingo Weber*

PASOAC-Net: A Petri-Net Model to Manage Authorization in Service-Based Business Process

*Haiyang Sun, Weiliang Zhao, Surya Nepal*

**ICSOC 2012**  
**Wednesday, 14 November 2012 (Day 2 of 3)**

	Conference Hall	No. 2 Meeting Room	No. 1 Meeting Room
9:00am - 10:00am	<b>Keynote 2:</b> Dr. James T. Yeh, Independent Researcher and Consultant  Chair: Heiko Ludwig		
10:00am - 10:30am	<b>Coffee Break</b>		
10:30am - 12:00pm	<b>Research Paper Session: Service Engineering 2</b>  Chair: Schahram Dustdar	<b>Research Paper Session: Service Management 2</b>  Chair: Manuel Carro	<b>Industrial Short Paper Session</b>  Chair: Qi Yu
12:00pm - 1:30pm	<b>Lunch Break (Fuxuan Hotel)</b>		
1:30pm - 3:00pm	<b>Research Paper Session: Service QoS</b>  Chair: Bikram Sengupta	<b>Industrial Paper Session: Cloud Computing</b>  Chair: Zibin Zheng	<b>Demo Session 1</b>
3:00pm - 3:30pm	<b>Coffee Break</b>		
3:30pm - 4:50pm	<b>Research Short Paper Session: Service Description and Discovery</b>  Chair: Shiping Chen	<b>Research Short Paper Session: Service Management</b>  Chair: Maja Vukovic	<b>Demo Session 2</b>
5:00pm - 6:30pm	<b>Panel: Cloud or Not Cloud</b> Panellists: Kamal Bhattacharya Yiwei Chen Schahram Dustdar Stefan Tai Jianwen Su Cesare Pautasso		

---

## **Service Engineering 2**

Extending Enterprise Service Design Knowledge using Clustering  
*Marcus Roy, Ingo Weber, Boualem Benatallah*

Participatory Service Design through Composed and Coordinated Service Feature Models  
*Erik Wittern, Nelly Schuster, Jörn Kuhlenkamp, Stefan Tai*

PerCAS: An Approach to Enabling Dynamic and Personalized Adaptation for Context-Aware Services  
*Jian Yu, Jun Han, Michael Sheng*

## **Service Management 2**

A Method for Assessing Influence Relationships Among KPIs of Service Systems  
*Yedendra Shrinivasan, Gargi Dasgupta, Nimit Desai, and Jayan Nallacherry*

Dynamic Performance Management in Multi-tenanted Business Process Servers using Nonlinear Control  
*Tharindu Patikirikorala*

An Optimized Derivation of Event Queries to Monitor Choreography Violations  
*Aymen Baouab, Olivier Perrin, Claude Godart*

## **Cloud Computing (Industry Papers)**

MapReduce based Data Stream Processing over Large History Data  
*Kaiyuan Qi*

An Efficient Data Dissemination Approach for Cloud Monitoring  
*Xingjian Lu, Jianwei Yin, Ying Li, Shuiguang Deng, Mingfa Zhu*

Collective Intelligence for Enhanced Quality Management of IT Services  
*Maja Vukovic, Arjun Natarajan*

## **Service QoS**

Dynamic Service Selection with End-To-End Constrained Uncertain QoS Attributes  
*Rene Ramacher, Lars Mönch*

A Constraint-Based Approach to Quality Assurance in Service Choreographies  
*Dragan Ivanovic, Manuel Carro<sup>1</sup>, Manuel V. Hermenegildo*

Structural Optimization of Reduced Ordered Binary Decision Diagrams for SLA Negotiation in IaaS of Cloud Computing  
*Kuan Lu, Ramin Yahyapour, Edwin Yaqub, Constantinos Kotsokalis*

---

## **Service Description & Discovery (Short Papers)**

WSTRank: Ranking Tags to Facilitate Web Service Mining  
*Liang Chen, Zibin Zheng, Yipeng Feng, Jian Wu, Michael R. Lyu*

Maintaining Motivation Models (in BMM) in the context of a (WSDL-S) Service Landscape  
*Konstantin Hoesch-Klohe, Aditya Ghose, Hoa Khanh Dam*

Ontology-Learning-Based Focused Crawling for Online Service Advertising Information Discovery and Classification  
*Hai Dong, Farookh Hussain, Elizabeth Chang*

A Learning Method for Improving Quality of Service Infrastructure Management in New Technical Support Groups  
*David Loewenstern, Florian Pinel, Larisa Shwartz, Maira Gatti, Ricardo Herrmann*

## **Service Management (Short Papers)**

Adaptive Service-Oriented Mobile Applications: A Declarative Approach  
*Gianpaolo Cugola, Carlo Ghezzi, Leandro Sales Pinto, Giordano Tamburrelli*

Algorithms and Complexity Problems in Planning Under Uncertainty For Service Delivery Organizations  
*Sreyash Kenkre, Vinayaka Pandit, Ranganath Kondapally*

A Dynamic QoS-Aware Semantic Web Service Composition Algorithm  
*Pablo Rodriguez-Mier, Manuel Mucientes, Manuel Lama*

IT Incident Management by Analyzing Incident Relations  
*Rong Liu, Juhnyoung Lee*

## **Industry Short Papers**

Business Process Extensions as First-Class Entities - A Model-Driven and Aspect-Oriented Approach  
*Heiko Witteborg, Anis Charfi, Mohamed Aly, Ta'id Holmes*

Towards Dynamic Reconfiguration for QoS consistent Services based Applications  
*Ying Li, Yuyu Yin*

An Ontology-Based IoT Resource Model for Resources Evolution and Reverse Evolution  
*Shuai Zhao, Yang Zhang, Junliang Chen*

## **Demo 1**

A Dynamic SCA-based System for Smart Homes and Offices  
*Calmant, Thomas; Americo, Joao Claudio; Donsez, Didier; Gattaz, Olivier*

Realizing Elastic Processes with PEP

---

*Schulte, Stefan; Hoenisch, Philipp; Venugopal, Srikumar; Dustdar, Schahram*

A Social Network based Collaborative Video Story Composition Platform  
*Wang, Chen; Meng, Meng; Zhou, Xiangmin; Ranjan, Rajiv*

BPMashup: Dynamic Execution of RESTful Processes  
*Xu, Xiwei; Weber, Ingo; Zhu, Liming; Liu, Yan; Rimba, Paul; Lu, Qinghua*

## **Demo 2**

SODA: A Tool Support for the Detection of SOA Antipatterns  
*Nayrolles, Mathieu; Palma, Francis; Moha, Naouel; Guéhéneuc, Yann-Gaël*

Method and System for In-Place Modeling of Business Process Extensions as First-Class Entities  
*Witteborg, Heiko; Charfi, Anis; Wei, Wei; Holmes, Ta'id*

Supporting Business and IT through Updatable Process Views: The proView Demonstrator  
*Kolb, Jens; Reichert, Manfred*



---

**ICSOC 2012**  
**Thursday, 15 November 2012 (Day 3 of 3)**

---

	Conference Hall	No. 2 Meeting Room
9:00am - 10:00am	<b>Keynote 3: Prof. Jianwen Su</b> Chair: Farouk Toumani	
10:00am - 10:30am	<b>Coffee Break</b>	
10:30am - 12:00pm	<b>Research Paper Session: Service Engineering 3</b> Chair: Boualem Benatallah	<b>Research Paper Session: Service Security, Privacy and Personalization</b> Chair: Jian Yu
12:00pm - 1:30pm	<b>Lunch Break (Fuxuan Hotel)</b>	
1:30pm - 3:00pm	<b>Research Paper Session: Service Applications in Business and Society</b> Chair: Surya Nepal	<b>Research Paper Session: Service Composition and Choreography</b> Chair: Winfried Lamersdorf
3:00pm - 3:30pm	<b>Coffee Break</b>	
3:30pm - 5:00pm	<b>Research Paper Session: Service Scaling and Cloud</b> Chair: Fabio Patrizi	<b>Research Short Paper Session: Service Security, Privacy and Personalization</b> Chair: Ingo Weber

---

### **Service Engineering 3**

A Service Composition Framework Based on Goal-Oriented Requirements Engineering, Model Checking, and Qualitative Preference Analysis

*Zachary J. Oster, Syed Adeel Ali, Ganesh Ram Santhanam, Samik Basu, Partha Roop*

WCP-nets: A Weighted Extension to CP-nets for Web Service Selection

*Hongbing Wang, Jie Zhang, wenlong Sun, hongye Song, Guibing Guo, Xiang Zhou*

WS-Finder: A Framework for Hybrid Similarity Search of Web Services

*Jiangang Ma, Quan Z. Sheng, Kewen Liao*

### **Service Security, Privacy and Personalization**

A Framework of Trusted Services

*Icamaan da Silva, Andrea Zisman*

Configuring Private Data Management as Access Restrictions: From Design to Enforcement

*Aurelien Faravelon, Stéphanie Chollet, Christine Verdier, Agnes Front*

Modeling User's Non-Functional Preferences for Personalized Service Ranking

*Rozita Mirmotalebi, Chen Ding, and Chi-Hung Chi*

### **Service Composition and Choreography**

Declarative Choreographies for Artifacts

*Yutian Sun, Wei Xu, Jianwen Su*

Managing Resource Contention in Embedded Service-Oriented Systems with Dynamic Orchestration

*Peter Newman, Gerald Kotonya*

Semantic Service Composition Framework for Multidomain Ubiquitous Computing Applications

*Mohamed Hilia, Abdelghani Chibani, Karim Djouani, Yacine Amirat*

### **Service Applications in Business and Society**

An Adaptive Mediation Framework for Mobile P2P Social Content Sharing

*Chii Chang, Satish Srirama, Sea Ling*

Socially-Enriched Semantic Mashup of Web APIs

*Jooik Jung, Kyong-Ho Lee*

Application of Business-Driven Decision Making to RESTful Business Processes

*Qinghua Lu, Xiwei Xu, Vladimir Tosic, Liming Zhu*

---

### **Service Scaling and Cloud**

Sparse Functional Representation for Large Scale Service Clustering

*Qi Yu*

Management-based license discovery for the cloud

*Minkyong Kim, Han Chen, Jonathan Munson, Hui Lei*

Updatable Process Views for User-centered Adaption of Large Process Models

*Jens Kolb, Klaus Kammerer, Manfred Reichert*

### **Service Security, Privacy and Research and Personalization (Short Papers)**

An Association Probability based Noise Generation Strategy for Privacy Protection in Cloud Computing

*Gaofeng Zhang, Yun Yang, Xuyun Zhang, Chang Liu, Jinjun Chen*

ARIMA Model-Based Web Services Trustworthiness Evaluation and Prediction

*Meng Li, Zhebang Hua, Junfeng Zhao, Yanzhen Zou, Bing Xie*

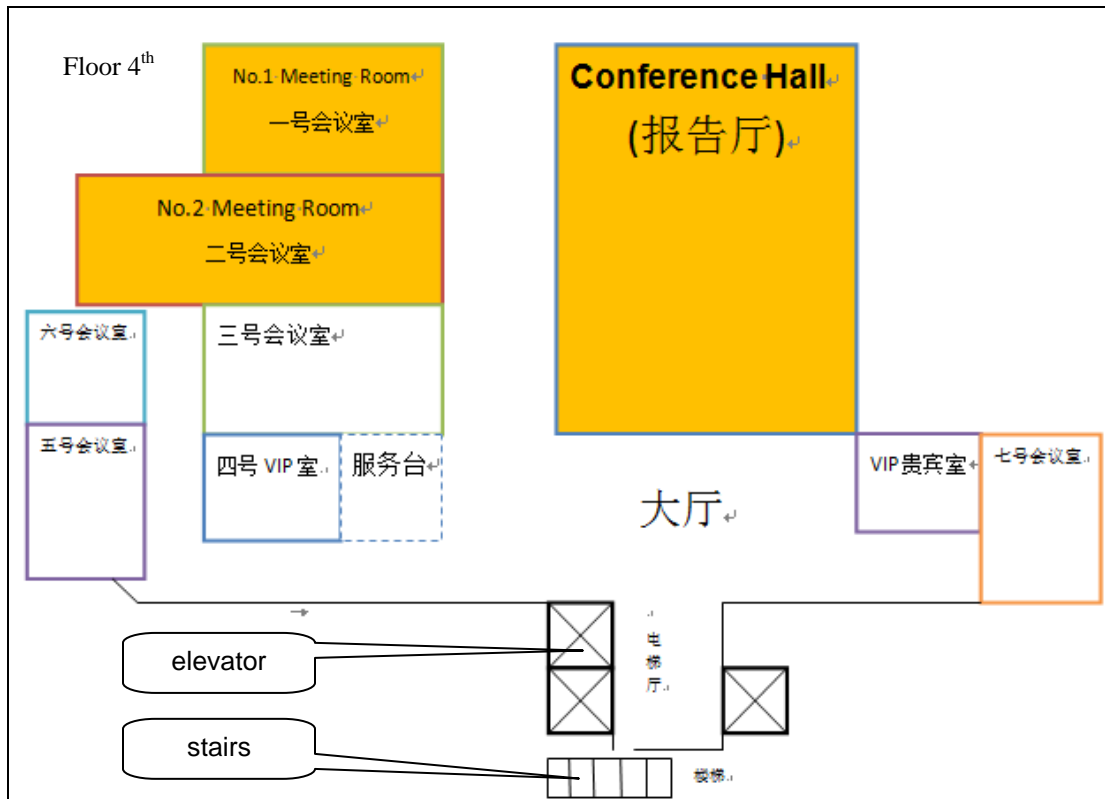
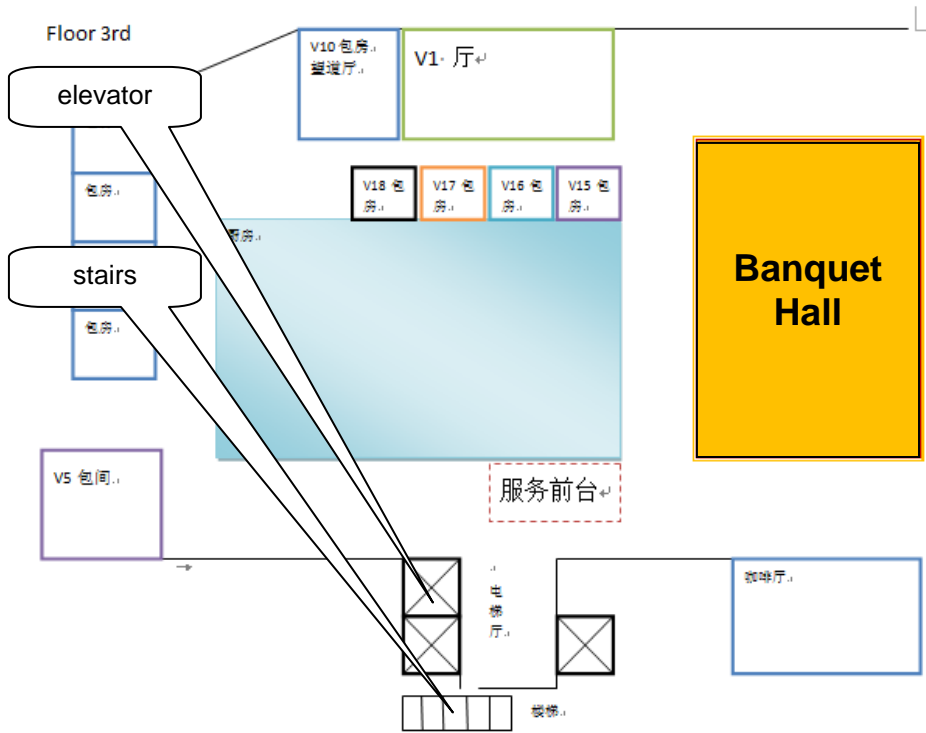
Analyzing Coopetition Strategies of Services within Communities

*Babak Khosravifar, Mahsa Alishahi, Ehsan Khosrowshahi Asl, Jamal Bentahar, Rabeb Mizouni, Hadi Otrak*

Trust-Based Service Discovery in Multi-Relation Social Networks

*Amine Louati, Joyce El Haddad, Suzanne Pinson*

# FLOOR PLAN (CONFERENCE VENUE)



---

## SOCIAL EVENTS

---

### Welcome Reception

---

**Date:** Monday, November 12<sup>th</sup>

**Time:** 7:00pm

**Meet at:** Banquet Hall at Fuxuan Hotel

### Banquet

---

**Date:** Wednesday, November 14<sup>th</sup>

**Time:** 7:00pm

**Meet at:** Banquet Hall at Crowne Plaza (Shanghai Fudan)

---

## TOURIST INFORMATION

---

For all tourist information concerning sites of interest; visit the official webpage of Shanghai Govment;

**Webpage:** <http://www.meet-in-shanghai.net/>

---

## TRANSPORTATION FROM CONFERENCE VENUE

---

### ✧ To Pudong Airport

- Take a taxi (about 160 CNY, 70 minutes)
- Take a taxi to Longyang Road Station (about 55CNY, 45minutes). Then take Maglev Speed Train to Pudong Airport (50 CNY or 100 CNY (VIP), 8minutes)
- Walk to Wujiaochang Station (15-minutes-walk). Then, take a No.4 airport bus

### ✧ To Hongqiao Airport

- Take a taxi (about 90 CNY, 40 minutes)
- Walk to Wujiaochang Station (12-minutes-walk). Then, take Metro Line 10 to Hongqiao airport (about 5 CNY, 1 hour)

### ✧ To Hongqiao Railway Station

- Take a taxi (about 90 CNY, 40 minutes)
- Walk to Wujiaochang Station (12-minutes-walk). Then, take Metro Line 10 to Hongqiao railway station (about 5 CNY, 1 hour)

### ✧ To Shanghai Railway Station

- Take a taxi (about 35 CNY, 30 minutes).
- Walk to Fudan-University Station (5-minutes-walk). Then, take a No. 942 bus to Shanghai railway station (about 3 CNY, 60 minutes)

---

✧ **To Shanghai South Railway Station**

- Take a taxi (about 90 CNY, 45 minutes).
- Walk to Wujiaochang Station (12-minutes-walk). Take Metro Line 10 to Hongqiao railway station and exit at Hongqiao Road. Then, change Metro Line 3 to Shanghai South Railway Station (totally about 6 CNY, 1 hour)

**USEFUL PHONE NUMBERS**

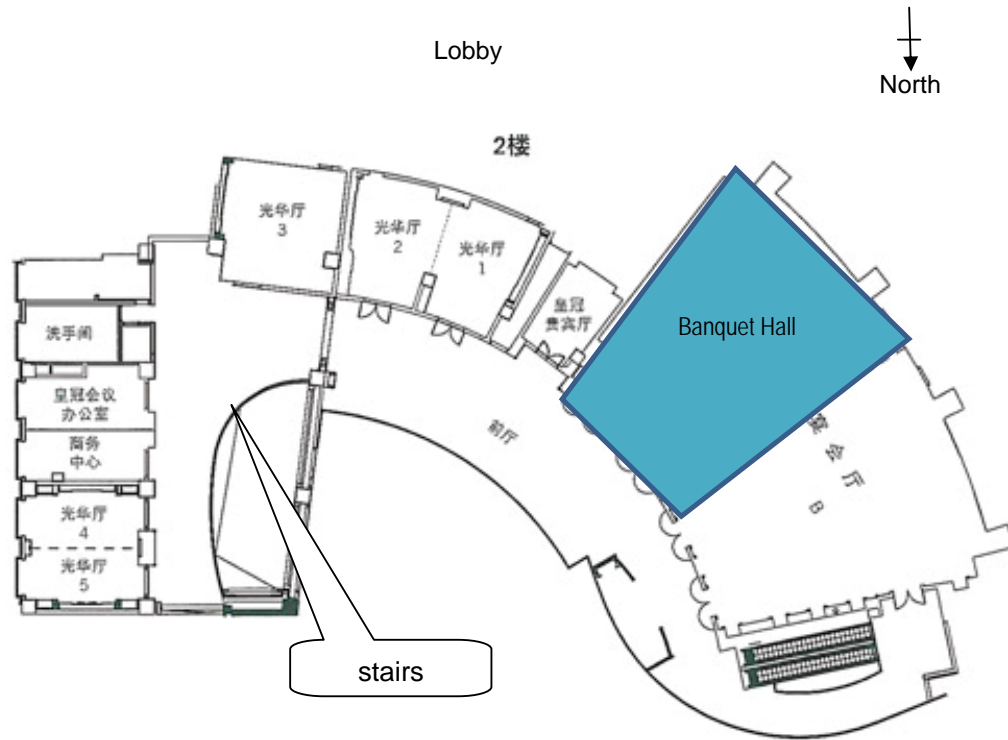
---

Country Code Prefix:	086
City Code Prefix:	021
Police:	110
Ambulance:	120
Local phone number inquiry:	114
Weather forecast:	12121
Shanghai tourism hotline:	962020
Flight inquiry:	96990
Reserve taxi:	62580000(English available)

---

**FLOOR PLAN (CROWNE PLAZA)**

---



## LOCAL MAPS

The screenshot displays a Google Maps interface with a list of locations on the left and a corresponding map on the right. The map shows a route highlighted in blue, connecting several key locations in Shanghai.

**Location List:**

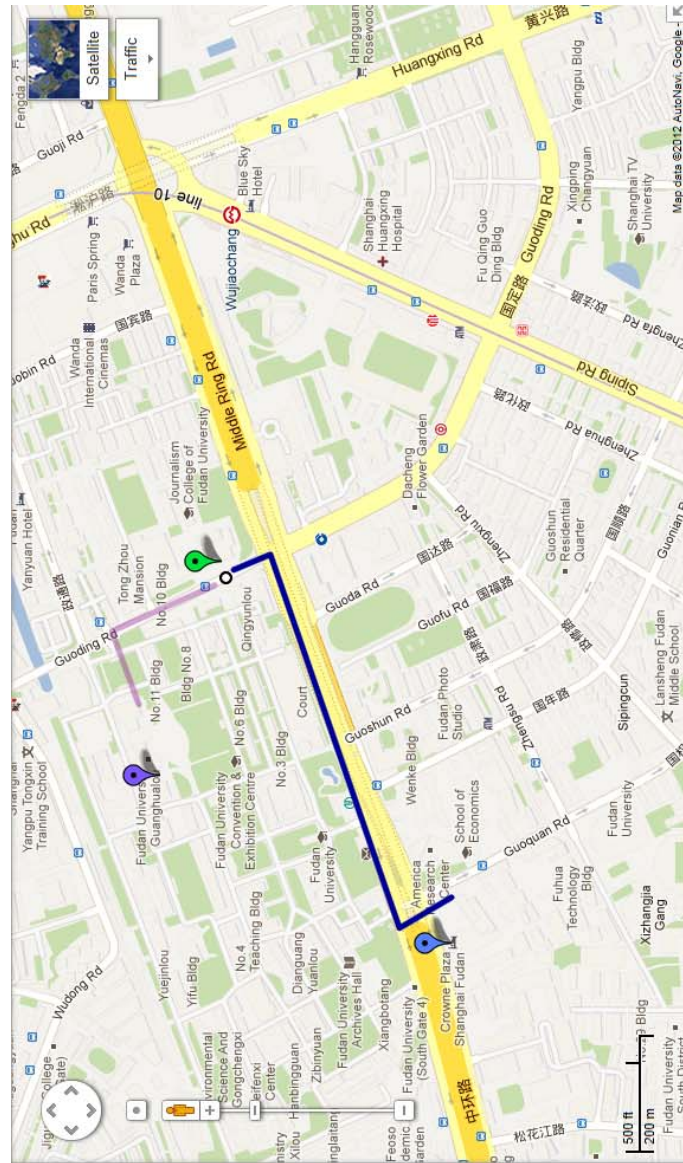
- Crowne Plaza Shanghai Fudan
- Shanghai South Railway Station
- Fuxuan Hotel (Conference Hotel)
- Driving directions to Fuxuan Hotel
- Fuxuan Hotel
- Driving directions to Fuxuan Hotel
- From: PVG, Shanghai, China
- Driving directions to Fuxuan Hotel
- From: Hongdiao AirPort Terminal 2, Shanghai, China
- Fuxuan Hotel
- From: Hongdiao Railway Station, Shanghai, China
- Driving directions to Fuxuan
- Fuxuan Hotel
- Fuxuan Hotel
- Shanghai Railway Station
- Driving directions to Fuxuan Hotel

**Map Interface:**

- Scale:** 2 m
- Map Style:** Traffic, Satellite
- Navigation:** Get directions, My Places, Print, GPS
- Map Labels:** Xuhuidistrict, Hongdiao Railway Station, Fuxuan Hotel, Shanghai Railway Station, Crowne Plaza Shanghai Fudan, PVG, Shanghai, China, Hongdiao AirPort Terminal 2, Shanghai, China.








# LOCAL MAPS



Get directions My places EDIT

Collaborate  
Explore making custom maps in an interactive tutorial.  
**My Saved Places**  
Public · 0 views  
Created on Jul 26 · By zhenying@fudan · Updated 27 minutes ago  
Rate this map · Write a comment · KML

-  Fuxuan Hotel (conference venue)
-  Crowne Plaza Shanghai Fudan
-  Guanghua Building (workshops only)
-  From Fuxuan to Crowne Plaza
-  From Fuxuan to Guanghua Building

---

## Organization

---

### Steering Committee

---

Boualem Benatallah, *UNSW, Australia*  
Fabio Casati, *University of Trento, Italy*  
Paco Curbera, *IBM Research, USA*  
Asit Dan, *IBM Research, USA*  
Bernd Krämer, *FernUniversität in Hagen, Germany*  
Winfried Lamersdorf, *University of Hamburg, Germany*  
Mike Papazoglou, *Tilburg University, The Netherlands - acting Chair*  
Paolo Traverso, *ITC-IRST, Italy*

### Honorary Chair

---

Junliang Chen, *Beijing Post and Communication University, China*

### General Chairs

---

Jian Yang, *Macquarie University, Australia*  
Liang Zhang, *Fudan University, China*

### Advisory Committee

---

Jifeng He, *Eastern China Normal University, China*  
Jian Lv, *Nanjing University, China*  
Baile Shi, *Fudan University, China*  
Zhaohui Wu, *Zhejiang University, China*

### Program Chairs

---

Chengfei Liu, *Swinburne University, Australia*  
Heiko Ludwig, *IBM Almaden Research Center, USA*  
Farouk Toumani, *Universit Blaise Pascal, France*

### Workshop Chairs

---

Aditya Ghose, *University of Wollongong, Australia*  
Huibiao Zhu, *Eastern China Normal University, China*

---

## **Industry Chairs**

---

Yanbo Han, Chinese Academy of Sciences  
Nanjangud C Narendra, IBM India Software Lab, Bangalore, India  
Surya Nepal, ICT CSIRO, Australia

## **Demonstration Chairs**

---

Alex Delis, University of Athens, Greece  
Michael Q. Sheng, Adelaide University, Australia

## **Panel Chairs**

---

Cesare Pautasso, University of Lugano, Switzerland  
Thomas Sandholm, HP Labs, USA

## **PHD Symposium Chairs**

---

Olivier Perrin, Nancy 2 University, France  
Jianmin Wang, Tsinghua University, China  
Yan Wang, Macquarie University, Australia

## **Publicity Chairs**

---

Florian Daniel, University of Trento, Italy  
Yunzhan Gong, Beijing Post and Communication University, China  
Zaki Malik, Wayne State University, USA

## **Local Organization Chairs**

---

Jian Cao, Shanghai Jiaotong University, China  
Zhenying He, Fudan University, China  
Guohua Liu, Donghua University, China  
Budan Wu, Beijing Post and Communication University, China

---

## **Corporate Sponsor Chairs**

---

Genxing Yang, Shanghai Software Industry Association, China

Shiyong Zhang, Fudan University, China

Yingsheng Li, Fudan University, China

## **Financial Chair**

---

Weiwei Sun, Fudan University, China

## **Publication Chair**

---

Qi Yu, Rochester Institute of Technology, USA

## **Web Chair**

---

Xiang Fu, Hofstra University, USA