<table>
<thead>
<tr>
<th>Topic</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Program at a Glance</td>
<td>Page 1-2</td>
</tr>
<tr>
<td>Welcome Messages</td>
<td>Page 3-4</td>
</tr>
<tr>
<td>Keynote Speeches</td>
<td>Page 5-8</td>
</tr>
<tr>
<td>Invited Talks</td>
<td>Page 9-10</td>
</tr>
<tr>
<td>Technical Sessions in FCST-12</td>
<td>Page 11-14</td>
</tr>
<tr>
<td>Poster Session in FCST-12</td>
<td>Page 15</td>
</tr>
<tr>
<td>Organizing and Program Committees</td>
<td>Page 16-20</td>
</tr>
<tr>
<td>Introduction to Central South University (CSU)</td>
<td>Page 21</td>
</tr>
<tr>
<td>Introduction to School of Information Science and Engineering of CSU</td>
<td>Page 22</td>
</tr>
<tr>
<td>Introduction to Soochow University</td>
<td>Page 23</td>
</tr>
<tr>
<td>Introduction to School of Computer Science and Technology of Soochow University</td>
<td>Page 24</td>
</tr>
<tr>
<td>Conference Venue</td>
<td>Page 25-26</td>
</tr>
<tr>
<td>Sponsors</td>
<td>Page 27</td>
</tr>
</tbody>
</table>
# ADVANCED PROGRAM OF FCST-12 AT A GLANCE

## November 20 (Tuesday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 14:00-20:00 | Onsite Registration  
(It also opens everyday from 8:00-20:00 during November 21-22 at registration desk in the lobby) |

## November 21 (Wednesday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 8:45-9:15 | Opening Ceremony  
(Soochow Univ. Red Building Lecture Hall)  
Welcome Messages from University Leader/Municipal Government Leader/Steering Chair/General Chair/Program Chair  
Chair: Prof. Hai Jin, Huazhong University of Science and Technology, China |
| 9:15-9:30 | Taking Photos  (All attendees) |
| 9:30-10:00 | Coffee/Tea Break |
| 10:00-11:00 | Keynote 1: Prof. Michael Cohen  
Mobile Ambient Interfaces for "Practically Panoramic" Whole-body Entertainment  
(Soochow Univ. Red Building Lecture Hall)  
Chair: Prof. Jinshu Su, National University of Defense Technology, China |
| 11:00-12:00 | Keynote 2: Prof. Jinhui Xu  
Algorithmic Approaches for Determining the Organization of the Nucleus  
(Soochow Univ. Red Building Lecture Hall)  
Chair: Prof. Song Y. Yan, Harvard University, USA |
| 12:00-13:30 | Lunch  (Gloria Plaza Restaurant) |
| 13:30-15:30 | Session PDC-I (Soochow Univ. Red Building Room No. 115)  
Session TSP-I (Soochow Univ. Red Building Room No. 217)  
Session Multimedia-I (Soochow Univ. Red Building Room No. 201) |
| 15:30-16:00 | Coffee/Tea Break |
| 16:00-18:00 | Session PDC-II (Soochow Univ. Red Building Room No. 115)  
Session TSP-II (Soochow Univ. Red Building Room No. 217)  
Session Multimedia-II (Soochow Univ. Red Building Room No. 201) |
<p>| 18:00-20:00 | Dinner  (Gloria Plaza Restaurant) |</p>
<table>
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<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
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| 9:00-10:00   | **Keynote 3:** Prof. Rajkumar Buyya  
Cloud Computing: The Driver of the Next Big Wave of Innovation  
(Soochow Univ. Red Building Lecture Hall)  
Chair: Dr. Shui Yu, Deakin University, Australia |
| 10:00-10:45  | **Invited Talk 1:** Prof. Pei-Chann Chang  
Artificial Immune System for Scheduling and Anomaly Detection of Grid Computing  
(Soochow Univ. Red Building Lecture Hall)  
Chair: Prof. Jinhui Xu, State University of New York at Buffalo, USA |
| 10:45-11:15  | Coffee/Tea Break                                                                                  |
| 11:15-12:00  | **Invited Talk 2:** Prof. Song Y. Yan  
Can Factoring be in P?  
(Soochow Univ. Red Building Lecture Hall)  
Chair: Prof. Xiangjian (Sean) He, University of Technology, Sydney, Australia |
| 12:00-13:30  | Lunch (Gloria Plaza Restaurant)                                                                       |
| 13:30-15:30  | Session PDC-III  
(Soochow Univ. Red Building Room No. 115)  
Session TSP-III  
(Soochow Univ. Red Building Room No. 217)  
Session Multimedia-III  
(Soochow Univ. Red Building Room No. 201) |
| 15:30-16:00  | Coffee/Tea Break                                                                                  |
| 16:00-18:00  | Session Embedded-I  
(Soochow Univ. Red Building Room No. 115)  
Session Software-I  
(Soochow Univ. Red Building Room No. 217)  
Session Software-II  
(Soochow Univ. Red Building Room No. 201) |
| 14:00-17:00  | **Poster Sessions** (Soochow Univ. Red Building)                                                     |
| 18:00-20:00  | **Banquet** (Yangcheng-Lake Restaurant)  
*The buses for banquet participants depart at Red Building at 17:15 to the restaurant and return to the hotel from the restaurant at 20:00 |
Welcome Message from FCST 2012 Conference Chairs

As Conference Chairs and on behalf of the organizing committee of “The 7th International Conference on Frontier of Computer Science and Technology (FCST-12)”, we would like to welcome you to the conference, and encourage you to enjoy the wonderful sightseeing in Suzhou and nearby cities in China.

FCST has become an important conference in the scope of advances in all aspects of computer science and technology. In this year, the conference received a large number of submissions. We would like to thank all the organizing committee members and program committee members for their hard work.

We would also like to thank Mr. Genrong Wang and Ms. Jin Zheng, who managed the finances of the conference and many other details such as hotel and tour reservations. We would like to express our gratitude to Prof. Carlos Becker Westphall, Prof. Gregorio Martinez, Dr. Wenbin Jiang, and Dr. Muhammad Khurram Khan, who served as Publicity Chairs. We are indebted to the Steering Chairs, Prof. Minyi Guo and Prof. Hai Jin. We would like to thank our keynote speakers for sharing their visions and insights with us, and all our authors who contributed their papers to the conference, and the organizations that supported the conference, including the National Natural Science Foundation of China, Soochow University, and Central South University.

We hope you will find the conference a technically enriching and culturally rewarding experience. Thank you very much for attending.

General Chairs
Albert Zomaya, University of Sydney, Australia
Fanzhang Li, Soochow University, China

Organizing Chairs
Jiwen Yang, Soochow University, China
Li Zhang, Soochow University, China
Welcome Message from FCST 2012 Program Chairs

On behalf of the program committee of “The 7th International Conference on Frontier of Computer Science and Technology (FCST-12)”, we would like to welcome you to join the conference! The conference will be held in Suzhou, Jiangsu Province, China, November 21-23, 2012. In ancient China, Suzhou was the Capital of the Kingdom of Wu from the 12th to 4th centuries, B.C. As an old Chinese saying goes: “Heaven above, Suzhou and Hangzhou below.” Suzhou is well known in China and abroad for its wonderful landscapes, elegant gardens and various stone bridges, as well as its eminent historical and cultural values.

The conference aims to bring together computer scientists, applied mathematicians, engineers in a range of disciplines, and researchers to present, discuss, and exchange ideas, results, work-in-progresses, and experiences in the area of advanced computing for problems in science, engineering, and inter-disciplinary applications. It will feature keynote speeches, technical presentations, and poster sessions.

We are delighted that the conference continues to attract high-quality submissions from a diverse and international group of researchers and practitioners. In this year, we received 325 papers for the conference. All papers received at least three reviews from the program committee members. We finally selected 72 papers for presentation in the conference (giving an acceptance rate of 22.15%). A total of 12 technical sessions, organized in 3 parallel tracks, form the core of the technical program. This year, we will select 2 best paper awards for the conference.

It would be impossible to organize the conference without the hard work and dedication of many people. In particular, we would like to thank all researchers and practitioners who submitted their manuscripts, and thank the program committee members for all their contributions during the paper reviewing and selection process.

We hope all of you find that the conference will provide a very good opportunity for you to learn from each other and that your attendance will be most enjoyable and fruitful.

Program Chairs

Manish Parashar, Rutgers, The State University of New Jersey, USA
Guojun Wang, Central South University, China
Keynote: Mobile Ambient Interfaces for "Practically Panoramic" Whole-body Entertainment

Speaker: Prof. Michael Cohen, University of Aizu, Japan
Chair: Prof. Jinshu Su, National University of Defense Technology, China
10:00-11:00, November 21, 2012 (Wednesday), Soochow Univ. Red Building Lecture Hall

About the keynote speaker

Michael Cohen is a Professor at the University of Aizu, where he heads the Spatial Media Group, comprising about 25 members, and teaches undergraduate courses in human interfaces & virtual reality, and has graduate lectures in sound and audio, computer music, and spatial sound. His research primarily concerns interactive multimedia, including virtual & mixed reality, spatial audio & stereotelephony, stereography, ubicomp (ubiquitous computing), and mobile computing. He received an Sc.B. in EE from Brown University (Providence, Rhode Island), M.S. in CS from the University of Washington (Seattle), and Ph.D. in EECS from Northwestern University (Evanston, Illinois). He had post-doctoral appointments at the University of Washington and at NTT. He has worked at the Air Force Geophysics Lab (Hanscom Field, Massachusetts), Weizmann Institute (Rehovot; Israel), Teradyne (Boston, Massachusetts), BBN (Cambridge, Massachusetts and Stuttgart; Germany), Bellcore (Morristown and Red Bank, New Jersey), the Human Interface Technology Lab (Seattle, Washington), and the Audio Media Research Group at the NTT Human Interface Lab (Musashino and Yokosuka; Japan). He is the author or coauthor of over two hundred publications, eight book chapters, and two patents, a co-developer of the Soniconline audio courseware, and the inventor or co-inventor of multipresence (virtual cloning algorithm) and narrowcasting, the Schaire ("Share Chair" rotary motion platform), near phones (headrest-mounted stereo speakers), SQTVR (stereographic QuickTime Virtual Reality), and Zebrackets (dynamic articulated parentheses).

He has been an invited or keynote speaker at numerous local or international conferences, including the Japan-China Joint Workshop on Frontier of Computer Science and Technology (2006), the Int. Symp. on Universal Communication (2007), MobileHCI (2007), the InterLink Workshop on Ambient Computing and Communication Environments (2007), the Int. Conf. on Applied and Creative Arts (2008), the Special Interest Group on Distributed Processing Systems (2008), the Int. Symp. on Electronic Arts (2008), the Int. Conf. on the Use of Symbols to Represent Music and Multimedia Objects (2008), the Immersive Education Initiative Boston Summit (2010), the Future Campus Forum (2010), and the Int. Conf. on Virtual-Reality Continuum and Its Applications in Industry (2010).

He is on the Scientific Committee of the Journal of Virtual Reality and Broadcasting, an Assoc. Editor of Analogness & Digitalness: The Int. Journal of Interactivity, a member of the ACM, AES (Audio Engineering Society), including the AES Technical Committee on Spatial Sound, the IEEE Computer Society, IEICE (Institute of Electronics, Information and Communication Engineers), JMUG (Japan Mathematica Users Group), 3D-Forum, TUG (TeX Users Group), and VRSJ (Virtual Reality Society of Japan). He is currently Director of the University of Aizu Information Systems Technology Center.

Summary:

Ambient media refers to a space’s expressive channels, typically driven through fixed-location, public display equipment, such as computer screens, projection systems, stereo speakers, loudspeaker arrays, etc. Mobile media, in contrast, is portable but intimate. "Mobile ambient" applications integrate these...
interaction styles, featuring cross-scale interactivity that exploits both personal mobile devices and location-based public displays. For particular instance, sensors on smartphones and tablets can measure orientation, which data can modulate ambient displays, including whirling of panoramic and turnoramic images and spatial sound, as well as avatar or rigged model attributes in augmented virtuality or mixed reality scenes. "Poi" is a performance art combining dance and juggling featuring a weight whirled at the end of a tether; "padiddling" is a playful activity featuring spinning objects such as plates or flying discs. Mobile ambient "smartoy" groupware applications can support and amplify poi and padiddling recreations by leveraging modern multimedia and distributed room ware, mo-cap-style software for smart spaces and reactive rooms.
Keynote: Algorithmic Approaches for Determining the Organization of the Nucleus

Speaker: Prof. Jinhui Xu, State University of New York at Buffalo, USA
Chair: Prof. Song Y. Yan, Harvard University, USA
11:00-12:00, November 21, 2012 (Wednesday), Soochow Univ. Red Building Lecture Hall

About the keynote speaker

Dr. Jinhui Xu received his BS and MS degrees in Computer Science from the University of Science and Technology of China in 1992 and 1995 respectively and his PhD degree in Computer Science and Engineering from the University of Notre Dame (Indiana, USA) in 2000. Since then, he is on the faculty of Computer Science and Engineering Department at the State University of New York at Buffalo, and is currently a full professor there. His research interest lies in the areas of algorithms, computational geometry, optimization, and their applications in medicine, biology, networking, and VLSI. He has published more than 130 research papers in these areas and designed the state-of-the-arts algorithms for a number of fundamental problems, including several long standing open problems. He is on the editorial boards of a couple of international journals and is a recipient of the NSF CAREER Award.

Summary:

Spatial positioning has emerged as a fundamental principle governing nuclear processes. Research on chromosome territories has indicated that the 3-D arrangement of these territories within the architecture of the cell nucleus may be closely linked to genomic function, regulation and cell differentiation. Despite this progress, the degree of non-random arrangement of chromosome territories (CT) remains unclear and no overall model at the global level has been proposed. In addition, our understanding of gene positioning in chromosome territories in relationship to gene expression is still very limited. This talk discusses algorithmic approaches for several spatial positioning and organization problems, such as the association of chromosome territories and the topological structures of individual chromosomes. Particularly, it will show how the chromosome topological structure can be determined by solving chromatic clustering problems in high dimensional space.
Keynote: Cloud Computing: The Driver of the Next Big Wave of Innovation

Speaker: Prof. Rajkumar Buyya, University of Melbourne, Australia
Chair: Dr. Shui Yu, Deakin University, Australia
9:00-10:00, November 22, 2012 (Thursday), Soochow Univ. Red Building Lecture Hall

About the keynote speaker

Dr. Rajkumar Buyya is Professor of Computer Science and Software Engineering; and Director of the Cloud Computing and Distributed Systems (CLOUDS) Laboratory at the University of Melbourne, Australia. He is also serving as the founding CEO of Manjrasoft, a spin-off company of the University, commercializing its innovations in Cloud Computing. He has authored over 400 publications and four text books. He also edited several books including "Cloud Computing: Principles and Paradigms" (Wiley Press, USA, 2011). He is one of the highly cited authors in computer science and software engineering worldwide (h-index=65, g-index=136, and 20500+ citations). Microsoft Academic Search Index rates Dr. Buyya as one of the Top 5 Authors during the last 10 years (2001-2012) and #1 in the world during the last 5 years (2007-2012) in Distributed and Parallel Computing area. Software technologies for Grid and Cloud computing developed under Dr. Buyya’s leadership have gained rapid acceptance and are in use at several academic institutions and commercial enterprises in 40 countries around the world. Dr. Buyya has led the establishment and development of key community activities, including serving as foundation Chair of the IEEE Technical Committee on Scalable Computing and five IEEE/ACM conferences. These contributions and international research leadership of Dr. Buyya are recognized through the award of "2009 IEEE Medal for Excellence in Scalable Computing" from the IEEE Computer Society TCSC, USA. Manjrasoft's Aneka Cloud technology developed under his leadership has received "2010 Asia Pacific Frost& Sullivan New Product Innovation Award" and "2011 Telstra Innovation Challenge, People's Choice Award". For further information on Dr. Buyya, please visit his cyberhome: www.buyya.com

Summary:

Computing is being transformed to a model consisting of services that are commoditised and delivered in a manner similar to utilities such as water, electricity, gas, and telephony. In such a model, users access services based on their requirements without regard to where the services are hosted. Several computing paradigms have promised to deliver this utility computing vision. Cloud computing is the most recent emerging paradigm promising to turn the vision of "computing utilities" into a reality. Cloud computing has emerged as one of the buzzwords in the IT industry. Several IT vendors are promising to offer storage, computation and application hosting services, and provide coverage in several continents, offering Service-Level Agreements (SLA) backed performance and uptime promises for their services. It delivers infrastructure, platform, and software (application) as services, which are made available as subscription-based services in a pay-as-you-go model to consumers. The price that Cloud Service Providers charge can vary with time and the quality of service (QoS) expectations of consumers.

This keynote talk will cover (a) 21st century vision of computing and identifies various IT paradigms promising to deliver the vision of computing utilities; (b) the architecture for creating market-oriented Clouds by leveraging technologies such as VMs; (c) market-based resource management strategies that encompass both customer-driven service management and computational risk management to sustain SLA-oriented resource allocation; (d) Aneka, a software system for rapid development of Cloud applications and their deployment on private/public Clouds with resource provisioning driven by SLAs and user QoS requirements; (e) experimental results on deploying Cloud applications in engineering, gaming, and health care domains (integrating sensors networks, mobile devices), ISRO satellite image processing on elastic Clouds, and (f) need for convergence of competing IT paradigms for delivering our 21st century vision along with pathways for future research.
Invited Talk: Artificial Immune System for Scheduling and Anomaly Detection of Grid Computing

Speaker: Prof. Pei-Chann Chang, Yuan-Ze University, Taiwan
Chair: Prof. Jinhui Xu, State University of New York at Buffalo, USA
10:00-10:45, November 22, 2012 (Thursday), Soochow Univ. Red Building Lecture Hall

About the keynote speaker

Pei-Chann Chang received his BA degree in Industrial Engineering from National Tsinghua University in 1979 and MS and PhD degrees from the Department of Industrial Engineering of Lehigh University in 1985 and 1989, respectively. Currently, he is a Chair Professor in Yuan Ze University in Taiwan. He has won the Outstanding Research Award from National Research Council from 2009 to 2011. He has published several highly cited papers in journals such Applied Soft Computing, Journal of Intelligent Manufacturing and Expert Systems with Applications and he was also honored as a top cited author by the journal of Expert Systems with Applications twice in year 2006 and 2008. He is in the editorial board of Soft Computing and also serves as referees for more than 30 international journals. His research interests include Evolutionary Computations; Financial Time Series Data Forecasting; Medical Data Classification and Diagnosis; Fuzzy Rules Based Systems; Production Scheduling, and Applications of Soft Computing. He has published more than 100 SCI international journal papers with total citations of 1238 and an h-index of 20 from ISI database. His research works have been published in international journals, such as IEEE Transactions on systems man and cybernetics part C-Applications & Reviews, Decision Support Systems, European Journal of Operational Research, International Journal of Production Economics, Applied Soft Computing, Journal of Intelligent Manufacturing and Computers and Operations Research … etc

Summary:

Grid workflow scheduling problem has been a research focus in grid computing in recent years. Various deterministic or meta-heuristic scheduling approaches have been proposed to solve this NP-complete problem. A perusal of published papers on the artificial immune system (AIS) reveals that most researchers use the clonal selection of B cells during the evolving processes and the affinity function of B cells to solve various optimization problems. First, this talk will introduce a different approach to the subject — firstly by applying a modified algorithm to sequence the job and this sequence is applied for further application. Secondly, the derived sequence is then used for machine allocations using the AIS approach. The proposed AIS apply B cells to reduce the antigens and then combining T helper cells and T suppressor cells to solve the grid scheduling problems.

Next, we will introduce a new classifier using artificial immune system (AIS) combined with population based incremental learning (PBIL) that can be used for any classification problem. AIS are powerful in terms of extirpating antigen inspired by the principles and processes of natural immune system. PBIL uses past experiences to evolve into new species through learning. The combination of these two approaches is used for scheduling and anomaly detection problems in Grid computing environment. The AIS part uses clonal selection mechanism and antibody hierarchy mechanism for efficient detection. As shown by the comparison carried out with other artificial intelligence and evolutionary computation approaches, our PBIL-AIS classifier can achieve high accuracy for most classification problems.
Invited Talk: Can Factoring be in P?

Speaker: Prof. Song Y. Yan, Harvard University, USA
Chair: Prof. Xiangjian (Sean) He, University of Technology, Sydney, Australia
11:15-12:00, November 22, 2012 (Thursday), Soochow Univ. Red Building Lecture Hall

About the tutorial speaker

Prof Song Yan majored in both Computer Science and Mathematics, and obtained a PhD in Number Theory from the Department of Mathematics at the University of York, England. He has been working in several leading universities in UK and US, including York, Aston, Cambridge, MIT and Harvard. His research interests include number theory, complexity theory, cryptography and information security. He published, among others, the following very received research monographs in number and cryptography:

Summary:

In 1801, Gauss proposed two computational number-theoretic problems in his Disquisitiones Arithmeticae. In term of modern computation theory, these two problems may be stated as follows:
1. Is Primes in P?
2. Is Factoring in P?

The first problem was solved in a paper “Primes is in P” (Annals of Mathematics, 160, 2004, pp781-793). That is, prime numbers can be recognized in polynomial-time. The second problem however still remains unsolved to this day. That is, given a positive composite integer, there is still no polynomial-time algorithm to find its prime factors. The security of the famous RSA cryptosystem relies exactly on the infeasibility of the factoring problem. Can factoring be in P? In this talk, I shall first present some of the most recent research results in this problem, and then some new directions and frontiers including quantum and biological computing in the field.
Technical Sessions in FCST-12

Session PDC-I: Parallel and Distributed Computing, 13:30–15:30, November 21 (Wednesday), Soochow Univ. Red Building Room No. 115

Chair: Ying Guo, Central South University, China

PBQ: A Priority-based Query Processing Algorithm in Opportunistic Wireless Sensor Network
Yongxuan Lai (Xiamen University, China), Ziyu Lin.

A Layer Based Algorithm for the Construction of Connected Dominating Set in WSNs
Jun Zhang (University of Electronic Science and Technology, China), Yong Tang, Zhang Jun and Wenyong Wang.

An Environment-aware Routing Protocol for Underwater Wireless Sensor Networks
Abdul Wahid (Kyungpook National University, Korea), Sungwon Lee and Dongkyun Kim.

PBQ: Predicting Robustness Against Transients of MPI Based Programs
Joao Gramacho (Universitat Autònoma de Barcelona, Spain), Alvaro Wong, Dolores Rexachs and Emilio Luque.

Session PDC-II: Parallel and Distributed Computing, 16:00–18:00, November 21 (Wednesday), Soochow Univ. Red Building Room No. 115

Chair: Guoqiang Wang, National Instruments Corp., USA

Proactive Workload Management for Dynamic Virtualized Environment
Ahmed Sallam (Hunan University, China) and Kenli Li.

Improving Write Amplification in a Virtualized SSD System
Dingding Li (Huazhong University of Science and Technology, China), Hai Jin, Xiaofei Liao and Jia Yu.

An Effective Model of CPU/GPU Collaborative Computing in GPU Clusters
Yue Gu (Northwestern Polytechnical University, China) and Jianhua Gu.

Session PDC-III: Parallel and Distributed Computing, 13:30–15:30, November 22 (Thursday), Soochow Univ. Red Building Room No. 115

Chair: Xiaofei Liao, Huazhong University of Science and Technology, China

FAMA: A Middleware for Fast Deploying and Auto Scaling towards Multitier Applications in Cloud
Xiaolin Xu (Huazhong University of Science and Technology, China), Hai Jin, Song Wu and Xiaohua Shi.

EDGESA: Enforcing Deadline Guarantee of E-Science Applications by Leasing Cloud Infrastructure Services
Chao Kun Yan (Central South University, China), Zhiqiang Hu, Xi Li and Huimin Luo.

SLA-based Energy-Efficient Resource Management in Cloud Data Centers
Yongqiang Gao (Shanghai Jiao Tong University, China), Haibing Guan, Zhengwei Qi, Fei Huan, Bin Wang, Yang Hou and Liang Liu.

Ant Colony Optimization Based Method for Web Service Composition
Qiang Yu (Yangzhou University, China) and Ling Chen.

Session TSP-I: Trust, Security and Privacy, 13:30–15:30, November 21 (Wednesday), Soochow Univ. Red Building Room No. 217

Chair: Yu Yao, College of Information Science and Engineering, Northeastern University, China

Efficient Constructions of Certificate-Based Key Encapsulation Mechanism
Yang Lu (Hohai University, China) and Jigu Li.

Dohyun Kim (KAIST, Korea) and Younghee Lee.
Yu-Teng Jang (National Chung Hsing University, Taiwan, China), Shuchih Ernest Chang and Yi-Jey Tsai.
An Aggregated Signature-based Fast RFID Batch Detection Protocol

Chaoliang Li (Central South University, China), Guojun Wang and Jia Zheng.
A Group Strategy-proof Trust Mechanism for Pervasive Computing Environments

Wei Zhou (Qingdao Technological University, China), Zhiqiang Wei, Xianjun Ren, Mijun Kang and Miao Yang.
Modeling, analysis and containment of passive worms in P2P networks

Wei Yang (Northeastern University, China), Yong-Peng Gao, Zhi-Liang Zhu, Gui-Ran Chang and Yu Yao.
A Semantic Distance based Trust Model for Pervasive environments

Zhigang Chen (Central South University, China), Jiangtao Wang and Xiaoheng Deng.
Session TSP-II: Trust, Security and Privacy, 16:00–18:00, November 21 (Wednesday), Soochow Univ. Red Building Room No. 217

Chair: Guangjie Liu, Nanjing University of Science and Technology, China
High-efficient Quantum Secret Sharing Based on the Chinese Remainder Theorem With the Orbital Angular Momentum State Analysis

Dazu Huang (Central South University, China), Yongliang Xiao, Ying Guo.
An efficient quantum anonymous communication with hybrid entanglement swapping

Xiaoping Lou (Central South University, China), Zhiqiang Chen, and Ying Guo.
Obtaining K-Obfuscation for Profile Privacy in Social Networks

Yongjun Wang (Nanjing University of Science and Technology, China), Cong Xi, and Qiong Xin.
A Secure K-Automorphism Privacy Preserving Approach with High Data Utility in Social Networks

Jun Yang (Northeastern University, China), Bin Wang, Xianchun Yang, Hongyi Zhang and Guang Xiang.
Model the Influence of Sybil Nodes in P2P Botnets

Wang Tianzuo (National University of Defense Technology, China), Wang Huaimin, Liu Bo and Shi Peichang.
Quantum States Sharing in the Relay System with Teleportation of Non-Maximally Entangled States

Jingjing Shi (Central South University, China), Ronghua Shi, Ying Guo, Han Hai and Moon Ho Lee.
Session TSP-III: Trust, Security and Privacy, 13:30–15:30, November 22 (Thursday), Soochow Univ. Red Building Room No. 217

Chair: Wei Ren, China University of Geosciences (Wuhan), China
Key Policy Attribute-Based Broadcast Encryption for Fine-Grained Access Control of Encrypted Data

Leyou Zhang (Xidian University, China), Qing Qu and Yupu Hu.
Compression-based Anomaly Detection: Resistance to Dynamic Environment for Web Security in A Robust Manner

Jun Ma (Beijing Institute of Technology, China), Senlin Luo and Jianguo Yao.
Towards Distributed Ranked Keyword Search over Encrypted Cloud Data

Ayad Ibrahim (HuaZhong University of Science and Technology, China), Hai Jin, Ali A. Yassin and Deqing Zou.
The Algorithm Model for Cumulative Vulnerability Risk Assessment

Yongyan Chen (Kunming University of Science and Technology, China) and Hong Chun Shu.
LIFE: A Lightweight and Flexible Key Management Scheme for Secure Distributed File Editing in Mobile Cloud Computing

Wei Ren (China University of Geosciences, China), Linchen Yu, Liangli Ma, Yi Ren.
A Generic Attribute-Based Model for Network Security Mechanisms Representation and Configuration

Hicham El Khoury (IRIT – University Paul Sabatier, France), Romain Laborde, Maroun Chamoun, Francois Barrere and Abdelmalek Benzekri.
A nonlinear correlation measure for Intrusion Detection

Xiangjian He (University of Technology, Australia), Mohammed Ambusaidi, Liang Fu Lu, Priyadarshi Nanda, Tan Zhiyuan and Aruna Jamdagni.
Efficient identity-based threshold signature scheme from bilinear pairings in the standard model

Wei Gao (Shanghai Jiao Tong University, China), Guolin Wang, Kefei Chen and Xueli Wang.
Session MULTIMEDIA-I: Multimedia Systems and Networks, 13:30–15:30, November 21 (Wednesday), Soochow Univ. Red Building Room No. 201

Chair: Qiang Lv, Soochow University, China
A Distributed Polarizing Transmission System for Frequency Selective Fading Channels

Jun Peng (Central South University, China), Yun Mao, Dazu Huang, Ying Guo, and Moon Ho Lee.
Game-Theoretic Transmission Power and Decoding Order Control in multihop Networks

Wonjong Noh (Samsung Advanced Institute of Technology, Korea), Jihoon Lee and Sangkyung Kim.
Exploring Social Networking Sites for Facilitating Multi-Channel Retailing

Yu-Teng Jang (National Chung Hsing University, Taiwan), Shuchih Ernest Chang and Po-An Chen.
A Fast Method for High Dynamic COMPASS Signal Acquisition

Ronghua Shi (Central South University, China), Xiaopeng Feng and Jian Dong.
Session MULTIMEDIA-II: Multimedia Systems and Networks, 16:00–18:00, November 21 (Wednesday), Soochow Univ. Red Building Room No. 201
Chair: Yu-Chi Wu, National United University, Taiwan

Cross-layer Video Transmission over IEEE 802.11e based Wireless Sensor Networks
Zheng Wan (Jiangxi University of Finance and Economics, China), Naixue Xiong and Laurence Yang.

Performance Analysis of Opportunistic Scheduling in Wireless Multimedia and Data Networks using Stochastic Network Calculus
Nao Wang (Guangxi University, China), Zhenzhen Zhang, Gaocai Wang and Xiangyang Xi.

Interior Structure Transfer via Harmonic 1-forms
Juncong Lin (Xiamen University, China), Jiazhi Xia, Xing Gao, Minghong Liao, Ying He and Xianfeng Gu.

Making Sky Lanterns from Polygonal Meshes
Juncong Lin (Xiamen University, China), Xing Gao, Minghong Liao, Jiazhi Xia and Ying He.

A Novel Specific Image Scenes Detection Method
Yuxiang Xie (National University of Defence Technology, China), Xiao-Ping Zhang, Xidao Luan, Li Liu, Xin Zhang.

CUNJ: A GPU-Based Parallel Method for Relationship Guiding Tree Construction
Ran Zheng (Huazhong University of Science and Technology, China), Qiongyao Zhang, Hai Jin, Zhiyuan Shao and Xiaowen Feng.

Session MULTIMEDIA-III: Multimedia Systems and Networks, 13:30–15:30, November 22 (Thursday), Soochow Univ. Red Building Room No. 201
Chair: Huimin Lu, Kyushu Institute of Technology/Japan Society for the Promotion of Science, Japan

High-rate Space-Time-Frequency Codes Achieving Full-Diversity with Partial Interference Cancellation Group Decoding
Ying Guo (Central South University, China).

An Improved Locality Sensitive Discriminant Analysis Approach for Feature Extraction
Jianzhong Wang (Northeast Normal University, China), Yugen Yi, Jun Kong and Baoxue Zhang.

Tag-based Personalized Image Ranking in Event Browsing
Yeqi Lu (Shanghai JiaoTong University, China), Yao Shen and Minyi Guo.

A Tripartite Tensor Decomposition Fold-in for Social Tagging
Zhifang Liao (University of Texas at Arlington, USA) and Chaoqun Wang.

An algorithm for mining frequent closed itemsets with density from data streams
Caiyan Dai (Nanjing University of Aeronautics and Astronautics, China) and Ling Chen.

Tourism Goes Mobile: A Study on Young and Literate Mobile Users' Adoption of Smartphone Enabled Tourism Product Booking Services
Shuchih Ernest Chang (National Chung Hsing University, China) and Yu-Teng Jang.

Session EMBEDDED-I: Embedded Computing and Systems, 16:00–18:00, November 22 (Thursday), Soochow Univ. Red Building Room No. 115
Chair: He Huang, Soochow University, China

Behavioral-Model-Based Freehand Tracking in a Selection-Move-Release System
Zhiquan Feng (University of Jinan, China).

Fast and Efficient Lossless Adaptive Compression Scheme for Wireless sensor Networks
Jonathan Gana Kolo (The University of Nottingham, Malaysia), S. Anandan Shanmugam, David Wee Gin Lim and Li-Minn Ang.

Communication Storage Optimization for Static Dataflow with Access Patterns under Periodic Scheduling and Throughput Constraint
Guoqiang Wang (National Instruments Corp., USA), Randy Allen, Hugo A. Andrade and Alberto Sangiovanni-Vincentelli.

Deterministic and Stochastic Performance Analysis of AFDX Avionics network
Jian Li (Shanghai Jiao Tong University Shanghai, China), Michael Lauer, Guchuan Zhu, Ruhui Ma and Haibing Guan.

Session SOFTWARE-I: Emerging Software Techniques, 16:00–18:00, November 22 (Thursday), Soochow Univ. Red Building Room No. 217
Chair: Juncheng Jia, Soochow University, China

Multimodal Medical Image Fusion Using Optimal Feature Selection Methods Based on Second Generation Contourlet Transform
Yujie Li (Kyushu Institute of Technology, Japan), Huimin Lu, Seichi Serikawa, Shun Inoue, Lifeng Zhang, Yosuke Uchimura, Atsushi Kobayashi, Miroslaw Trzupek.
Two-Phase Execution of Binary Applications on CPU/GPU Machines
   Ruhui Ma (Shanghai Jiaotong University, China), Erzhou Zhu and Haibing Guan.
Fuzzy Ontology-based Expert Selection Service in Expert Information System
   Yang Liu (Central South University, China), Zhigang Hu, Jun Long and Xinmin Liu.
Online Commercial Intention Detection Framework based on Web Pages
   Xiaofeng Xu (Shanghai Jiaotong University, China) and Huakang Li.

Session SOFTWARE-II: Emerging Software Techniques, 16:00–18:00, November 22 (Thursday), Soochow Univ. Red Building Room No. 201
Chair: Jin Wang, Soochow University, China
Efficient Strategy for Out-of-Order Event Stream Processing
   Yingyuan Xiao (Tianjin University of Technology, China), Tao Jiang and Huafeng Deng.
A kind of slope stability evaluation model based on SVM-DS method
   Feng Tian (Shenyang Aerospace University, China), Hengmao Pang, Chuanyun Wang and Xiaoping Sun.
A Formal Aspect-oriented Method to Model and Analyze Secure Service Composition
   Guisheng Fan (East China University of Science and Technology, China)
Multi-source Intrinsic Colorization
   Li Hong (Central South University, China), Sheng Xiling and Yang Su.
An Outlier Mining Algorithm based on Approximate Outlier Factor
   Yueshan Xie (Central South University, China), Xiaoping Fan and Zhifang Liao.
An efficient Clustering Ensemble Selection Algorithm based on ARJ
   Liu Limin (Central South University, China) and Liao Zhifang.
**Poster Session in FCST-12**

**Kernel Sparse Representation-based Classifier Ensemble for Face Recognition**  
Li Zhang (Soochow University, China), Weida Zhou, Fanzhang Li.  
A novel channel estimation approach for the  
Ronghua Shi (Central South University, China), Zeyan Jiang, Guocai Wang, Chunhua Peng, Jian Dong and Tianzi Lei.

Designing a prediction model for a complement of misbehavior detection strategies in MANET trust framework  
Ji Guo (Queens University Belfast, UK), Alan Marshall and Bosheng Zhou.

Selective Partial Recovery Optimization Strategy for SSL Connection Migration  
Fang Qi (Central South University, China), Shaowei Wu, Zhe Tang and Guojun Wang.

KTrust: P2P Trust Model Based on Evaluation Classification Using Kalman Filter  
Zhigang Chen (Central South University, China), Limiao Li, Jingsong Gui, Deyu Zhang and Feng Zeng.

A Security Improved Image Encryption Scheme Base on Chaotic Baker map and Hyperchaotic Lorenz System  
Chong Fu (Northeastern University, China), Zhan-kao Wen, Zhi-liang Zhu, Hai Yu.

Image Restoration Using Anisotropic Multivariate Shrinkage Function in Contourlet Domain  
Huimin Lu (Kyushu Institute of Technology, Japan), Yujie Li, Seiichi Serikawa, Shiyan Yang, Xuelong Hu, Ling Chen, Shota Nakashima, Yuki Kinazono.

A Low-cost Fault Tolerance Technique in Multi-media Applications through Configurability  
Tan Lanfang (National University of Defense Technology, China), Tan Qingping, Xu Jianjun and Shao Zeming.

Ternary Jeong Nang Deterministic Channel  
Moon Ho Lee (Chonbuk National University, Korea), Dan Ping Xu and Md. Hashem Ali Khan.

Optimal Transitional Trajectory Generation for Automatic Machine  
Zhe Tang (Central South University, China), Qiang Zhou, Fang Qi and Guojun Wang.

Orthogonal Matching Pursuit-Based Incremental Locally Linear Embedding Algorithm  
Yiqin Leng (Soochow University, China), Li Zhang and Jiwen Yang.

Modeling and Analyzing Reliable Cyber-Physical Systems Based on Aspect Orientation  
Liqiong Chen (Shanghai Institute of Technology, China).

Test Data Generation Based on Quantum-Inspired Genetic Algorithm  
Chengying Mao (Jiangxi University of Finance and Economics, China) and Xinxin Yu.

Measurement and Analysis for Power Quality using Compressed Sensing  
Yi Zhong (Wuhan University of Technology, China) and Chen Cheng.
FCST-12 Organizing and Program Committees

Steering Chairs
Minyi Guo, Shanghai Jiao Tong University, China
Hai Jin, Huazhong University of Science & Technology, China

General Chairs
Albert Zomaya, University of Sydney, Australia
Fanzhang Li, Soochow University, China

Program Chairs
Manish Parashar, Rutgers, The State University of New Jersey, USA
Guojun Wang, Central South University, China

Program Committees (in alphabetical order)

(1) Parallel and Distributed Computing Track
Chairs:
Rajendra V. Boppana, UT San Antonio, USA
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Raphael C.-W. Phan, Loughborough University, UK

TPC members:
Pruet Boonma, Chiang Mai University, Thailand
Eleonora Borgia, IIT-CNR, Italy
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Wei-Jen Wang, National Central University, Taiwan
Yongkun Wang, University of Tokyo, Japan
Jan-Jan Wu, Academia Sinica, Taiwan
Yi Wu, IBM Almaden Research, USA  
Toshihiro Yamauchi, Okayama University, Japan  
Zhenglu Yang, University of Tokyo, Japan  
Baoliu Ye, Nanjing University, China  
Huashan Yu, Peking University, China  
Kun-Ming Yu, Chung Hua University, Taiwan  
Fa Zhang, Institute of Computing Technology, Chinese Academy of Sciences, China  
Wenjie Zhang, The University of New South Wales, Australia  
Nenggan Zheng, Zhejiang University, China  
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(2) Trust, Security and Privacy (TSP Track)  
Chairs:  
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Georgios Kambourakis, University of the Aegean, Greece  
Ryan K. L. Ko, Hewlett Packard Laboratories, Singapore  
Jinshu Su, National University of Defense Technology, China

TPC members:  
Emmanuelle Anceaume, CNRS/IRISA, France  
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Gennaro Boggia, Politecnico di Bari, Italy  
Han-Chieh Chao, National Ilan University, Taiwan  
Jinjun Chen, Swinburne University of Technology, Australia  
Yu Chen, State University of New York Binghamton, USA  
Nathan Clarke, Plymouth University, UK  
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Hamza Dahmouni, INPT Rabat, Morocco  
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Bernhard Egger, Seoul National University, Korea  
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Dimitris Geneiatakis, University of Piraeus, Greece  
Francesco Gringoli, University of Brescia, Italy  
Ren-Jun Hwang, Tamkang University, Taiwan  
Ravi Jhawar, Universita' degli Studi di Milano, Italy  
Wen-Shenq Juang, National Kaohsiung First University of Science and Technology, Taiwan  
Tai-Hoon Kim, University of Hannam, Korea  
Shinsaku Kiyomoto, KDDI R&D Laboratories Inc., Japan  
Kenji Kono, Keio University, Japan  
Elisavet Konstantinou, University of the Aegean, Greece  
Igor Kotenko, St. Petersburg Institute SPIIRAS, Russia  
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Chin-Feng Lee, Chaoyang University of Technology, Taiwan  
Ke Liao, University of Kansas, USA  
Hyung-Jun Lim, Financial Security Agency, Korea  
Ping Li, Changsha University of Science & Technology, China  
Guangjie Liu, Nanjing University of Science and Technology, China  
Rafa Marin Lopez, University of Murcia, Spain  
Shaohe Lv, National University of Defense Technology, China  
Amiya Nayak, University of Ottawa, Canada  
Nuno Neves, University of Lisbon, Portugal  
Vincenzo Piuri, University of Milan, Italy  
Rodrigo Roman, Institute for Infocomm Research, Singapore  
Yizhi Ren, Hangzhou Dianzi University, China
(3) Multimedia Systems and Networks (Multimedia Track)

Chairs:
Mohamed Hamdi, School of Communication Engineering, Tunisia
Xingang Liu, University of Electronic Science and Technology of China, China
Yulei Wu, Chinese Academy of Sciences, China
Neal N. Xiong, Colorado Technical University, USA

TPC members:
Zubair Ahmed Baig, King Fahd University of Petroleum & Minerals, KSA
Shu Chen, Xiangtan University, China
Shu-Ching Chen, Florida International University, USA
Antonio Cianfrani, University of Rome Sapienza, Italy
Mianxiong Dong, The University of Aizu, Japan
Wenyong Dong, Wuhan Univ., China
Zigang Fu, Hunan Agricultural University, China
Tao Gao, Electronic Information Products Supervision and Inspection Institute of Hebei Province, China
Dimitris Geneiatakis, Columbia University, USA
Yo-Ping Huang, National Taipei University of Technology, Taiwan
Masaki Ito, Tottori University, Japan
Wenbin Jiang, Huazhong University of Science and Technology, China
Aravind Kailas, The University of North Carolina at Charlotte, USA
Dimitris Kanellopoulos, University of Patras, Greece
Dimitrios Koukopoulos, University of Ioannina, Greece
Chia-Han Lee, Academia Sinica, Taiwan
Ronghua Liang, Zhejiang University of Technology, China
Haojie Li, Dalian University of Technology, China
Huakang Li, Shanghai Jiao Tong University, China
Chun-Cheng Lin, National Chiao Tung University, Taiwan
Teng Li, Huawei Corp., China
Li Liu, Shandong University, China
Weijiang Liu, Dalian Maritime University, China
Xiangbin Liu, Hunan Normal University, China
Zhiyang Li, Dalian Maritime University, China
Chuan Qin, University of Shanghai for Science and Technology, China
Yared Rami, JAIST, Japan
Andreas Riener, Johannes Kepler University Linz, Austria
Seunghchul Ryu, Yonsei University, South Korea
Albert Ali Salah, Bogazici University, Turkey
Yingpeng Sang, University of Adelaide, Australia
Yanming Shen, Dalian University of Technology, China
Leonel Sousa, TU Lisbon, Portugal
Milos Stojmenovic, Singidunum University, Serbia
Zhou Su, Waseda University, Japan
Ming Tang, Chinese Academy of Sciences, China
Sheng Tang, Chinese Academy of Sciences, China
Tzu-Chieh Tsai, National Cheng Chi University, Taiwan
Di Wu, Sun Yat-Sen University, China
Yuki Uranishi, Nara Institute of Science and Technology, Japan
Chaokun Wang, Tsinghua University, China
Youxiang Wang, Research Institute, ChinaUnicom, China
Zheng Wan, Jiangxi Univ. of Finance and Economics, China
Junfeng Xu, Dalian University of Technology, China
Xingqin Yan, North China University of Water Resources and Electric Power, China
Beimei Zhang, Nanjing University of Finance & Economics, China
Jingyuan Zhang, The University of Alabama Tuscaloosa, USA
Qiang Zhang, Dalian University, China
Zonghua Zhang, Institut Telecom/TELECOMLille 1, France
Zenghua Zhao, Tianjin University, China
Jingyu Zhou, Shanghai Jiao Tong University, China
Liang Zhou, Technical University of Munich, Germany
Yunpu Zhu, University of Lethbridge, Canada

(4) Embedded Computing and Systems (Embedded Track)
Chairs:
Qingxu Deng, Northeastern University, China
Jian Li, Shanghai Jiao Tong University, China
Zhe Tang, Central South University, China
Mira Yun, Wentworth Institute of Technology, USA

TPC members:
Susmit Bagchi, Gyeongsang National University, South Korea
Mladen Berekovic, TU Braunschweig, Germany
Holger Blume, University of Hannover, Germany
Wei Cheng, University of California Davis, USA
Carlo Galuzzi, TU Delft, The Netherlands
Yi Ge, IBM Research - China, China
Tao Hong, Beihang University, China
Chengchen Hu, Xi’an Jiao Tong University, China
Jinho Hwang, George Washington University, USA
Mikyung Kang, University of Southern California - ISI, USA
Dong-Seong Kim, University of Canterbury, New Zealand
Junghoon Lee, Jeju National University, South Korea
Maurizio Palesi, Kore University, Italy
Meikang Qiu, University of Kentucky, USA
Gang Quan, Florida International University, USA
Hossein Sarrafzadeh, Faculty of Creative Industries and Business, New Zealand
Chung-Ching Shen, University of Maryland, USA
Nicolas Sklavos, Technological Educational Institute of Patras, Greece
Ioannis Soudis, Chalmers University of Technology, Sweden
Javier Castillo Villar, Univ. Rey Juan Carlos, Madrid, Spain
Haodong Wang, Cleveland State University, USA
Yanqin Yang, East China Normal University, China
Qingguo Zhou, Lanzhou University, China

(5) Track Emerging Software Techniques (Software Track)
Chairs:
Xiaolin (Andy) Li, University of Florida, USA
Fang Qi, Central South University, China
Fangfang Zhou, Central South University, China
TPC members:
Ajith Abraham, Norwegian University of Science and Technology, Norway
Doo-Hwan Bae, KAIST, Korea
Luiz Fernando Capretz, University of Western Ontario, Canada
Suresh Chalasani, University of Wisconsin-Parkside, USA
Wanchun Dou, Nanjing University, China
Kazuhide Fukushima, KDDI R&D Laboratories Inc., Japan
Yanhu Gu, University of Tokyo, Japan
Tzung-Pei Hong, National University of Kaohsiung, Taiwan
Xiao Liu, Swinburne University of Technology, Australia
Liang Lin, Sun Yat-Sen University, China
Yi Lu, University of New South Wales, Australia
Yoichi Omori, Kyushu University, Japan
Luca Spalazzi, Università Politecnica delle Marche, Italy
Wei Tan, IBM T. J. Watson Research Center, USA
Duminda Wijesekera, George Mason University, USA
Wang Yang, Central South University, China
Haibo Yu, Shanghai Jiao Tong University, China
Chuanlin Zhang, Jinan University, China

Organizing Co-Chairs
Jiwen Yang, Soochow University, China
Li Zhang, Soochow University, China

Organizing Committee (in alphabetical order)
Xiaocheng Du, Soochow University, China
Yuchen Fu, Soochow University, China
Wenzhong Gu, Soochow University, China
Shuping He, Soochow University, China
Xupeii Qian, Soochow University, China
Bangjun Wang, Soochow University, China
Genrong Wang, Soochow University, China
Wangshu Yao, Soochow University, China
Introduction to Central South University

Central South University (CSU) is a comprehensive and national key university under the direct administration of the Ministry of Education in China. CSU is among the first group admitted into both “Project 211”, which is a project of building national key universities and colleges for the 21st century, and “Project 985”, which is a joint constructive project of building world-class universities co-sponsored by the Chinese central government and local governments. Mr. Gao Wenbing is the Party Secretary of the CSU Committee, and Mr. Zhang Yaoxue, a member of the Chinese Academy of Engineering, is the CSU President.

Approved by the State Council, CSU was established on April 29, 2000 by merging three separate universities: Hunan Medical University (HMU), Changsha Railway University (CRU), and Central South University of Technology (CSUT). CSU covers an area of around 5,117 mu (341 hectares).

CSU boasts a high quality group of faculty, comprising of many famous scholars and experts with great influence both at home and abroad. Among them, there are 3 members of the Chinese Academy of Sciences, 14 academicians who are members of Chinese Academy of Engineering, 9 are members of the Discipline Assessment Group of the Academic Degrees Committee of the State Council, 23 scientific and technological experts have been recognized at a national level for their outstanding achievements, 532 experts have been awarded special subsidies from the Government, 797 are doctorate supervisors and 28 are Special-term Professors funded by the Changjiang Scholar Program. In addition, CSU has appointed a number of well-known Chinese and international scholars as honorary professors, visiting professors, or adjunct professors.

CSU covers 11 fields of study, including engineering, science, medicine, management, literature, law, economics, philosophy, education, history, and agriculture, and offers military science as well. It consists of 31 colleges offering 92 programs for bachelors’ degrees, and a graduate school comprising of a number of national key disciplines, including 6 at first-level (ranking 8th in China), 12 at second-level and one in development. 27 first-level disciplines are authorized to confer masters and doctoral degrees. 191 programs are offered for doctoral degrees, 307 programs for masters’ degrees and 19 programs for professional masters’ degrees. CSU also has 24 post-doctoral exchange centers, ranking 9th among Chinese universities and colleges.

At present, more than 52,000 full-time students, including over 18,000 graduate students, from 31 provinces and municipalities of the mainland China, as well as 80 countries and regions of the rest of the world are studying at CSU. CSU is a leading and top ranking Chinese university in the following aspects: one of the first universities to start an eight-year medical program (M.D.), the university running a pilot class for training innovation-oriented senior engineering talents, the first civilian university to offer master degree in military command and technique for officers, boasting five national talents training and teaching bases, six national centers for experimental teaching, 57 national exemplary courses, six bilingual national exemplary courses, six “excellent teachers” and eight teaching teams highly recognized by the state, 15 National Top 100 Doctoral Dissertations produced by its graduates since 2000. CSU also possesses three national first-class affiliated hospitals equipped with state-of-the-art medical facilities.

Quick Link: http://www.csu.edu.cn/
Introduction to School of Information Science and Engineering of Central South University

School of Information Science and Engineering (SISE) of Central South University was merged in May 2002 from School of Information Science and Engineering of the former Central South University of Technology, School of Information Engineering of the former Changsha Railway University, and Computer Center of the former Hunan Medical University.

Mr. Wang Yijun is the SISE Branch Party Secretary of the CSU Committee, and Mr. Wu Min, a Changjiang Scholar Distinguished Professor and a Talent with NSFC National Distinguished Youth Science Funds, is the Dean of the School. At present, the School has 310 staff and 3984 full-time undergraduate students and 1991 graduate students. The School is the largest one in terms of the total number of staff and students at Central South University.

The disciplines and specialties of the School cover a wide range of subjects including Control Science and Engineering, Computer Science and Technology, Electrical Engineering, Information and Communication Engineering, Electronic Science and Technology, Systems Science, and Transportation Information Engineering and Control. Currently, the School has 3 First-Level Disciplines and 13 Second-Level Disciplines which have been authorized to grant doctorate degrees, as well as 2 National Key Disciplines, 3 Hunan Provincial Key Disciplines, 2 Postdoctorate Centers, and 2 Provincial Research and Development Centers. The Computer Science and Technology is among the 3 First-Level Disciplines which have been authorized to grant doctorate degrees.

At present, the School stands in the front end of the privileged disciplines in the world. It is committed to serving our society through the joint efforts of its staff and students. We are striving to build a group of information disciplines to be recognized as a first-level training base in China and an advanced training base in the world as well.

Quick Links:

School of Information Science and Engineering, Central South University: http://sise.csu.edu.cn/
Trusted Computing Institute, Central South University: http://trust.csu.edu.cn/
Introduction to Soochow University

Located in Suzhou, an ancient city popularly called “The Paradise on Earth”, Soochow University is a key comprehensive provincial university in Jiangsu Province and also one of China’s top 100 universities under the “Project 211” directed by the Ministry of Education. Better equipped and more robust, Soochow University has grown into a first-rate university in China, covering a wide range of academic disciplines including philosophy, economics, science of law, pedagogy, literature, history, natural science, engineering, agriculture, medical science and management science, and enjoying a fairly high reputation both at home and abroad.

At present, Soochow University runs twenty post-doctoral research stations, six Ph.D. programs of primary disciplines, eighty-five Ph.D. Programs (including self-designed majors), one professional doctoral program of primary disciplines, 209 master’s degree programs (including self-designed majors), 10 professional master’s degree programs as well as 108 undergraduate programs. In addition, the university has 4 national key disciplines, 24 provincial and ministerial key disciplines (including 6 incubators for national key disciplines), one national engineering laboratory, one incubator for national key laboratory, 12 provincial and ministerial key laboratories, and 3 provincial and ministerial engineering centers. It also houses one national base for training personnel in the basic disciplines of liberal arts, one national base for training personnel in the basic disciplines of natural science, one key research base of the Ministry of Education for humanities and social sciences and one key research base of the State General Administration of Sports for social sciences.

Under the guidelines of consolidating students’ basic knowledge, broadening their fields of vision, strengthening the application and valuing the importance of practice, the university attaches great importance to both teaching and research. As a result, the quality of its students keeps improving. In the 29th Beijing Olympic Games, the students of Soochow University won two gold medals and one bronze medal. While emphasizing the importance of studying basic theories, the university pays due attention to local business market and strengthens development and application research. So far, it has made remarkable achievements in scientific research, winning over 430 awards at national level or provincial and ministerial levels, including National Awards for Natural Sciences, National Awards for Progress in Science and Technology, National Invention Awards, etc.

Soochow University consists of 5 campuses with a total area of more than 3,118 mu and a floor area of around 1.56 million square meters. The university library has a collection of about 4 million volumes and subscribes to about 2,800 domestic and foreign journals and magazines. It also has advanced equipment in the Center of Analysis and Measurement and the Center of Information Networks. The university has a publishing house which publishes academic journals such as Foreign Silk and Soochow University Journal in 4 discipline-oriented series.

In recent years, Soochow University has been relying on strong economic strength and favorable cultural geographic conditions of Southern Jiangsu and exploring effective ways to serve local economy and social development, which is now regarded as its own distinct feature and motive power for running the university. The university has set up a goal to build it into a high-level university and makes it “first-class at home and well known abroad”. Now, with unprecedented insight and courage, it is moving steadily toward the realization of this goal.

Quick Link: http://www.suda.edu.cn/
Introduction to School of Computer Science and Technology of Soochow University

Established in 1984, School of Computer Science and Technology at Soochow University is one of the earliest in Jiangsu Province. For more than two decades, our school has been consistently guided by the belief of “serving the local economic construction”. With discipline construction as the leading one, we are committed to tasks for an overall development, such as faculty construction, science research, teaching and management.

By now, the school has a doctoral degree program in Computer Application Technology, a master’s degree program (Level-ONE) in Management Science and Engineering, and two master’s degree programs (Level-TWO): Computer Technology, and Software Engineering. Besides, there is Computer Application Technology as the Jiangsu Provincial key subject, Computer Information Processing Technology as the Jiangsu Provincial key laboratory, and college-level research organizations like CKC Institute of Chinese Information Technology and Research Institute of High Performance Computing and Application. Computer Information Processing Technology is Soochow University's key discipline of “Project 211”. The school has 5 graduate programs: Computer Science and Technology, Information Management and Information System, Software Engineering, Network Engineering and Software Engineering (the cultivation of talent for Embedded Software) among which Computer Science and Technology is a major of provincial brand, Software Engineering is to be constructed as a state-level characteristic major. Meanwhile, the school also has further education majors such as the top-up program of Computer Science and Technology, the self-taught graduate program of Software Engineering, etc. Up till February 2010, the school has 16 Ph.D. students, 290 full-time postgraduates, 298 master candidates for majors like Engineering, and 1274 full-time graduates.

With a healthy organization, the school comprises 137 quality faculty members, among whom 96 are full-time teachers, including 7 Ph.D. supervisors, 33 postgraduate supervisors, 17 professors, 33 associate professors (senior engineers and associate researchers are included), 53 lecturers, 26 engineer technologists (5 senior experimentalists, 4 engineers or experimentalists are included). Two of the faculty members are the State Council experts for special allowance; one is the Well-known Teacher of Institutions of Higher Education in Jiangsu Province; four are cultivation subjects for Project 333 cross-century academic leading scholars; three are provincial outstanding young teachers; one is the provincial new Long March Shock Worker; one is the leading talent in innovation and enterprise in Soochow. Among the full-time teachers, 78 possess doctor’s or master’s degree, occupying 81.3 percent of the staff. In 2009, the faculty members published 358 papers, 246 of which came out in core journals, 5 of which were published as textbooks (including 2 academic works). 25 natural science fundings were successfully supported with amount of 4,626,000 RMB, and so were 25 industry fundings with amount of 3,956,000 RMB.

The school enjoys a strong academic atmosphere and a discreet teaching theory. We have always been aiming at cultivating high-quality and innovative talents in the teaching process, and valuing the association of theory with practice. Teaching internship bases have been set up in a great many world-class IT corporations in Suzhou Industrial Park and Suzhou New & Hi-tech District, which not only broadens the approach of student cultivation, but also meets the need of companies, thus contributing to the local economy.

Quick Link:

School of Computer Science and Technology, Soochow University: http://scst.suda.edu.cn/
How to get to the Conference Venue (Kai Lai Hotel)?

Location of Registration: Gloria Plaza Hotel Suzhou, a four-star hotel
Address: Gan Jiang East Road, No. 535, Suzhou, Jiangsu, China
Hotel Phone: 400-755-8888
Contact: Mr. Gengrong Wang, (phone) 13915531382, 0512-65113107,
Email: wanggr@suda.edu.cn

A. Airport to Hotel
A1. Shanghai Pudong International Airport to Hotel

First take the airport bus to the terminal, Gan Jiang West Road No. 115 (China Eastern, Suzhou Sales Office), and then select one of the following methods to reach the Gloria Plaza Hotel Suzhou.

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 10 yuan, 5 minutes.
2. Walk east about 40 meters to Yangyuxiang Station, then take any one of 800, 2, 307, 32, 112, 68, 900, 9, 146 bus to Xiangmen Station, Walk west about 270 meters to the Gloria Plaza Hotel.

A2. Shanghai Hongqiao International Airport to Hotel

First take the airport bus to the terminal, Gan Jiang West Road No. 115 (China Eastern, Suzhou Sales Office), and then select one of the following methods to reach the Gloria Plaza Hotel Suzhou.

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 10 yuan, 5 minutes.
2. Walk east about 40 meters to Yangyuxiang Station, then take any one of 800, 2, 307, 32, 112, 68, 900, 9, 146 bus to Xiangmen Station, Walk west about 270 meters to the Gloria Plaza Hotel.

A3. Shuofang International Airport, Southern Jiangsu to Hotel
First take the airport bus to Suzhou Convention Center, and then select one of the following methods to reach the Gloria Plaza Hotel Suzhou.

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 10 yuan, 8 minutes.
2. Walk about 220 meters to Geely Bridge Station, then take 200 or 89 bus and get off at Xiangmen Station, then walk west along the road about 270 meters to the Gloria Plaza Hotel.

B. Railway Station to Hotel

B1. Suzhou Station to Hotel

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 15 yuan, 15 minutes.
2. Walk to the railway Station, take the 518 bus and get off at Xiangmen Station, then walk west along the road about 270 meters to the Gloria Plaza Hotel.
3. Walk to North Station Plaza West Station, take the tour 5 south line, to Xiangmen Station then walk west along the road about 270 meters to the Gloria Plaza Hotel.

B2. Suzhou North Station to Hotel

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 45 yuan, 30 minutes.
2. Walk to Suzhou North Station, take the Express 8 bus or 819 or 80 bus, get off at Xiangcheng Economic Development Zone Station, transfer 89 bus to Xiangmen Station, then walk west along the road about 270 meters to the Gloria Plaza Hotel.

C. Bus Station to Hotel

C1. South bus Station to Hotel

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 12 yuan, 13 minutes.
2. Walk to the South Bus Station East Station, take 261 or 900 or 200 bus to Xiangmen Station and get off, and then westward to walk about 270 meters to the Gloria Plaza Hotel.

C2. North bus Station to Hotel

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 12 yuan, 10 minutes.
2. Walk to the North Bus Station, take the tour 5 south line, get off at the Xiangmen Station, and then westward to walk about 270 meters to the Gloria Plaza Hotel.

C3. West bus Station to Hotel

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 29 yuan, 30 minutes.
2. Walk to Suzhou Disneyland Station, take the Metro Line 1 (Bell Street South direction) to Xiangmen Station, then walk to the west about 270 meters to the Gloria Plaza Hotel.
3. Walk to Suzhou Disneyland Suzhou, take 68 or 89 or 2 bus to Xiangmen Station, then walk to the west about 270 meters to the Gloria Plaza Hotel.

C4. Wuzhong bus Station to Hotel

1. Take taxi to the Gloria Plaza Hotel Suzhou, about 21 yuan, 25 minutes.
2. Walk to the Station of Wuzhong Bus Station, take 5 or 932 bus, get off at the South Gate Station, transfer 261 bus, then west to walk about 270 meters to the Gloria Plaza Hotel in phase Gate Station and get off.