

PROGRAM GUIDE



INCoS-2013

The 5-th International Conference on Intelligent Networking
and Collaborative Systems
and

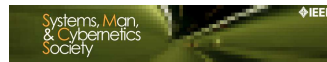


EIDWT-2013

The 4-th International Conference on Emerging Intelligent Data and Web
Technologies

September 9th - 11th, 2013
XI'AN, CHINA

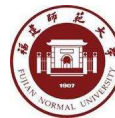
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Keynote I

Yang Xiang, Deakin University, Australia

Classifying Network Traffic in the Big Data Era

Abstract: With the arrival of Big Data Era, properly utilizing the power of big data is becoming increasingly essential for the strength and competitiveness of businesses and organizations. We are facing grand challenges from big data from different perspectives, such as processing, communication, security, and privacy. In this talk, we discuss the big data challenges in network traffic classification and our solutions to the challenges. The significance of the research lies in the fact that each year the network traffic increase exponentially on the current Internet.

Traffic classification has wide applications in network management, from security monitoring to quality of service measurements. Recent research tends to apply machine-learning techniques to flow statistical feature based classification methods. In this talk, we propose a series of novel approaches for traffic classification, which can improve the classification performance effectively by incorporating correlated information into the classification process. We analyze the new classification approaches and their performance benefit from both theoretical and empirical perspectives. A large number of experiments are carried out on two real-world traffic datasets to validate the proposed approach. The results show the traffic classification performance can be improved significantly even under the extreme difficult circumstance of very few training samples. Our work has significant impact on security applications.

Keynote II

Xiaolei Dong, Shanghai Jiao Tong University, China

Research Progress on Ciphertext Access Control for Cloud Computing

Abstract: Cloud computing emerges as a new computing paradigm that aims to provide reliable, customized and quality of service guaranteed computing environments for cloud users. However, as the cloud service providers cannot provide fully trusted data storage, when storing their confidential and private data in the cloud, the cloud users have to restore to other mechanisms to protect these sensitive data while enjoying the cloud services. In this talk, we suggest the cloud users store ciphertext instead of plaintext in the cloud, and introduce several access control methods on the ciphertext in cloud computing. We will focus on four aspects of the major scientific problem in this topic. (1) Traceability. How to design attribute-based encryption (ABE) schemes that simultaneously support the traceability of malicious users who leak their keys and the highly expressive policies expressed in any monotone access structures. (2) Revocability. How to revoke the illegal access privilege? This includes key revocation, attribute revocation, and access ability revocation. (3) Trustfulness. How to design secure multiple-authority ABE schemes that completely prevent individual authorities from decrypting ciphertexts? (4) Efficiency. How to design short ciphertext ABE schemes and short signature attribute-based signature (ABS) schemes? How to increase the security level or efficiency of these schemes without setting any trade-off on the security level or efficiency?

Keynote III

Dengguo Feng, The Institute of Software, Chinese Academy of Sciences (ISCAS), China

The Theory and Practice in the Evolution of Trusted Computing

Abstract: Trusted Computing is an emerging security technology based on hardware trust chips, attempting to overcome the computer systems vulnerabilities. It establishes trust relationships of every computer component from TPM the hardware trust root by integrity measuring and verifying. The theory and practice of Trusted Computing has been quickly developed in the last few years. TCG a not-for-profit organization puts forward the trusted computing technology and specification since 2003. It has upgraded the specification to TPM 2.0 this year. Many IT products like PC, notebook, smart phone, server etc. has supported Trusted Computing. In China, TCM a similar specification was released with the support of Chinese own cryptographic algorithms and PKI infrastructure. TCM has the significant impacts on development and evolution of trusted computing due to its own features.

In this talk, I will introduce our work according to evolution clue of theory and practice for Trusted Computing. On theoretical aspect, we propose the first ECDA protocol scheme based on q-SDH assumption, present other practical cryptographic protocol for TPM/TCM, and analyse the DAA protocol in the method of model checking. On practice aspect, we break through the core technologies of OS measurement, trust chain, remote attestation, and trust network connection. Based on principle of trust chain, we build the trust system on PC, virtualization server, smart phone. We also design and implement the test and evaluation system on trusted computing for TPM/TCM. As far as we know, the testing system is the first one putting into practical application for TPM and TCM in China. It provides the comprehensive tests on cryptographic algorithms, TPM/TCM command interfaces and trust software stack.

Message from the Conference Chairs INCoS 2013

Welcome to the 5th IEEE International Conference on Intelligent Networking and Collaborative Systems (INCoS 2013), which is held from 9th September to 11th September 2013 in Xian, China. The conference is technically sponsored by IEEE Systems, Man & Cybernetics (IEEE SMC Society).

INCoS is a multidisciplinary conference that covers latest advances in intelligent social networks and collaborative systems, intelligent networking systems, mobile collaborative systems, etc. Additionally, security, authentication, privacy, data trustworthiness are becoming crosscutting features of intelligent collaborative systems. With the fast development of the Internet, we are experiencing a shift from the traditional sharing of information and applications as the main purpose of the Web to an emergent paradigm, which locates people at the very centre of networks and exploits the value of people's connections, relations and collaboration. Web 2.0 has come to play a major role in this context by enabling a new generation of social networks and web-based communities and dramatically changing the way we use and interact with the Web. Social network analysis is also a rapidly growing field to investigate the dynamics and structure of intelligent Web-based networking and collaborative systems.

Virtual campuses and organizations strongly leverage intelligent networking and collaborative systems by a great variety of formal and informal electronic relations, such as business-to-business, peer-to-peer and many types of online collaborative learning interactions. This has resulted in entangled systems that need to be managed efficiently and in an autonomous way. In addition, latest and powerful technologies based on Grid and wireless infrastructure as well as Cloud computing are currently enhancing collaborative and networking applications a great deal but also facing new issues and challenges. Well-known social networks lack of knowledge management and adaptive solutions and the information shared among peers is rather static. Virtual communities of practice also provide poorly interactive solutions and lack of full support for organization, management, mobility and security, which have become major research issues in networked collaborative systems. INCoS 2013 conference paid a special attention to Cloud Computing Services and Storage, Organization, Management and Autonomic Computing and security in such systems.

The principal aim of this conference is to stimulate research that will lead to the creation of responsive environments for networking and, at longer-term, the development of adaptive, secure, mobile, and intuitive intelligent systems for collaborative work and learning. INCoS 2013 addresses a large number of themes and focuses on the following research tracks.

- Security, Organization, Management and Autonomic Computing for Intelligent Networking and Collaborative Systems
- Cloud Computing: Service, Storage, Security and Privacy
- Data Mining and Knowledge Management for Intelligent Networking and Collaborative Systems
- Fuzzy Systems and Knowledge Management
- Grid and P2P Distributed Infrastructure for Intelligent Networking and Collaborative Systems
- Intelligent Collaborative Systems for Work and Learning, Virtual Organization and Campuses
- Methodology, Analysis and Sustainability of Intelligent Networking and Collaborative Systems

- Natures Inspired and Multi-Agent Collaborative Systems
- Networking and Collaboration at School
- Next Generation Network Protocols and Components
- Semantics and Ontologies for Networking and Collaborative Systems
- Software Engineering for Intelligent Networking and Collaborative Systems
- Wireless and Sensor Systems for Intelligent Networking and Collaborative Systems

INCoS-2013 counted on with the support and collaboration of a large and internationally recognized TPC covering all main themes of the conference. After a careful peer review process, in which each paper was reviewed by at least two referees (in average three reviews per submission), there were accepted 100 regular papers from 347 submissions (28% acceptance rate). Additionally, the conference accepted 54 workshop papers.

The successful organization of the conference is achieved thanks to the great collaboration and hard work of many people and conference supporters. First and foremost, we would like to thank all the authors for their continued support to the conference by submitting their research work to the conference, for their presentations and discussions during the conference days. We would like to thank TPC members and external reviewers for their work by carefully evaluating the submissions and providing constructive feedback to authors. We would like to thank the track chairs for their work on setting up the tracks and the respective TPCs and also for actively promoting the conference and their tracks. We would like to appreciate the work of PC Co-chairs Xinyi Huang (Fujian Normal University, China), Santi Caballé (Open University of Catalonia, Spain) and Alex Thomo, (University of Victoria, Canada). The Workshops Co-Chairs Qianhong Wu (Rovira i Virgili, Spain), Pavel Krmer (University of Ostrava, Czech Republic) and Fangguo Zhang (Sun Yat-Sen University, China) are appreciated for the successful organization of seven workshops in conjunction with main conference. We would like to acknowledge the excellent work and support by the International Advisory Committee and its chairs Mario Kppen and Masato Tsuru, Kyushu Institute of Technology (KIT), Hui Li (Xidian University, China).

We would like to give special thanks to the members of the local organizing committee. We are grateful to the National Natural Science Foundation of China (No. 61272455), China 111 Project (No. B08038), and K. C. Wong Education Foundation, Hong Kong and and Fujian Normal University for sponsoring the conference. Also, Special thanks for State Key Laboratory of Integrated Service Networks (ISN), Xidian University for the great support.

We are very grateful to IEEE SMC as well as several academic institutions for their technical sponsorship, endorsement and assistance.

Finally, we hope that you will find these proceedings to be a valuable resource in your professional, research and educational activities!

We look forward to seeing you again in forthcoming edition of INCoS conference!

INCoS-2013 General Co-Chairs

Fatos Xhafa, Technical University of Catalonia, Spain
Leonard Barolli, Fukuoka Institute of Technology, Japan
Xiaofeng Chen, Xidian University, China

Message from the Workshop Chairs INCoS 2013

Welcome to Workshops of the 5th IEEE International Conference on Intelligent Networking and Collaborative Systems (INCoS 2013), which will be held from 9th September to 11th September, 2013 at Xi'an, China. The conference is technically sponsored by IEEE Systems, Man & Cybernetics (IEEE SMC Society). Workshops are considered an important part of the conference and offer to authors the possibility to present and discuss latest research finding, ideas and work on progress. In this edition of the conference, there are held seven workshops, which complemented the INCoS main themes with specific themes and research issues and challenges, as follows.

- International Workshop on Information Network Design (WIND 2013)
- International Workshop on Secure Cloud Computing (SCC 2013)
- International Workshop on Evolution of Social Networks (ESN 2013)
- International Workshop for Collaborative e-Business Systems (IWCBS2013)
- International Workshop on Communications and Network Theory (CNT 2013)
- International Workshop on Image Processing and Applications (IPA 2013)
- International Workshop on Frontiers in Intelligent Networking and Collaborative Systems (FINCoS 2013)

We would like to thank the workshop organizers for their great efforts and hard work in proposing the workshop, selecting the papers, the interesting programs and for the arrangements of the workshop during the conference days. We are grateful to the INCoS-2013 Conference Chairs for inviting us to be the workshops co-chairs of the conference. We hope you will enjoy the workshops programs and discussions during the conference days and enjoy your stay in Xi'an, China!

INCoS-2013 Workshops Co-Chairs

Qianhong Wu, Rovira I Virgili, Spain
Pavel Kromer, University of Ostrava, Czech Republic
Fanguo Zhang, Sun Yat-Sen University, China

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Makoto Takizawa, Seikei University, Japan

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Ajith Abraham, MIR Labs, USA
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Leonard Barolli, Fukuoka Institute of Technology, (FIT), Japan
Xiaofeng Chen, Xidian University, China

Message from the Organizers EIDWT 2013

Welcome to the 4th International Conference on Emerging Intelligent Data and Web Technologies (EIDWT 2013), which will be held in conjunction with the 5th International Conference on Intelligent Networking and Collaborative Systems (INCoS 2013) from 9 to 11 September 2013 in Xian, China.

The EIDWT is dedicated to the dissemination of original contributions that are related to the theories, practices and concepts of emerging data technologies yet most importantly of their applicability in business and academia towards a collective intelligence approach.

In EIDWT 2013 will be discussed topics related to Data Centres, Data Grids, Clouds, Crowds, Mashups, Social Networks, Security Issues and other Web 2.0 implementations towards a collaborative and collective intelligence approach leading to advancements of virtual organizations and their user communities. This is because, current and future Web and Web 2.0 implementations will store and continuously produce a vast amount of data, which if combined and analyzed through a collective intelligence manner will make a difference in the organizational settings and their user communities. Thus, the scope of EIDWT 2013 includes methods and practices which bring various emerging data technologies together to capture, integrate, analyze, mine, annotate and visualize data in a meaningful and collaborative for the organization manner. Finally, EIDWT 2013 aims to provide a forum for original discussion and prompt future directions in the area.

The EIDWT 2013 consists of the main conference and 6 workshops. We received 367 papers, and out of them 93 were accepted in the main conference (about 25% acceptance ratio), for presentation during the conference days.

An international conference requires the support and help of many people. A lot of people have helped and worked hard for a successful EIDWT 2013 technical program and conference proceedings. First, we would like to thank all authors for submitting their papers. We are indebted to Program Area chairs, Program Committee members, and reviewers who carried out the most difficult work of carefully evaluating the submitted papers. We would like to give our special thanks to Jianfeng Ma, Xidian University, China and Makoto Takizawa, Hosei University, Japan as the Honorary Chairs of EIDWT 2013, for their guidance and support. We would like to give our thanks to Workshop Co-Chairs Nik Bessis, University of Derby, UK, Shengli Liu, Shanghai Jiaotong University, China, and Kin Fun Li, University of Victoria, Canada. We appreciate the work of all area chairs. We would like to express our appreciation to our keynote speakers for accepting our invitation and delivering very interesting key notes at the conference.

We would like as well to thank the Local Arrangements Chairs for making excellent local arrangements for the conference. Finally, we would like to give special thanks to National Natural Science Foundation of China, K. C. Wong Education Foundation Hong Kong and Fujian Normal University for supporting our conference.

We hope you will enjoy the conference and have a great time in Xian, China.

EIDWT 2013 Steering Committee Co-Chairs

Leonard Barolli, Fukuoka Institute of Technology, Japan (Chair)

Fatos Xhafa, Technical University of Catalonia, Spain

Nik Bessis, University of Derby, UK

Jin Li, Guangzhou University, China

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Leonard Barolli, Fukuoka Institute of Technology, Japan

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EIDWT 2013 PC Co-Chairs

Jin Li, Guangzhou University, China

Ladjel Bellatreche, ISAE-ENSMA, France

Message from Workshop Chairs of EIDWT-2013

Welcome to the Workshops of the 4th International Conference on Emerging Intelligent Data and Web Technologies (EIDWT 2013), which will be held in conjunction with the 5th International Conference on Intelligent Networking and Collaborative Systems (INCoS 2013) from 9 to 11 September 2013 in Xi'an, China.

In this edition of the conference, six workshops will be held in conjunction with EIDWT 2013 International Conference. The workshops cover specific topics related to situated computing, pervasive computing, large scale systems, service oriented systems, green technology, Web socialization sustainability, cybercrimes, emerging Web environments, new systems and tools, learning systems and technologies.

The workshops are shown in following:

- International Workshop on Situated Computing for Pervasive Environments (SCOPE 2013)
- International Workshop on the Service for Large Scale Distributed Systems (SeDiS 2013)
- International Workshop on Cybercrimes and Emerging Web Environments (CEWE 2013)
- International Workshop on Development and Implementation of New Systems and Tools (DINST 2013)
- International Workshop on Intelligence Information Processing and Trusted Computing (IIPTC 2013)
- International Workshop on Frontiers in Emerging Intelligent Data and Web Technologies (FEIDWT 2013)

The Workshop Chairs would like to sincerely thank the efforts of the workshop organizers for the successful organization of their workshops, for carefully selecting the papers and the interesting program. We hope you enjoy the workshops programs and proceedings.

EIDWT-2013 Workshops Co-Chairs

Nik Bessis, University of Derby, UK

Shengli Liu, Shanghai Jiaotong University, China

Kin Fun Li, University of Victoria, Canada

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Makoto Takizawa, Seikei University, Japan

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Li Xu, Fujian Normal University, China
Leonard Barolli, Fukuoka Institute of Technology, Japan
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Shengli Liu, Shanghai Jiaotong University, China
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Award Chair

Ciprian Dobre, Politehnica Bucharest, Romania

Special Issue Chair

Natalia Kryvinska, University of Vienna, Austria

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Juntao Gao, Xidian University, China

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Evjola Spaho, Fukuoka Institute of Technology, Japan

Finance Chair

Makoto Ikeda, Fukuoka Institute of Technology (FIT), Japan

Steering Committee

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Fatos Xhafa, Technical University of Catalonia (UPC), Spain
Nik Bessis, University of Derby (also at University of Bedfordshire), UK
Jin Li, Guangzhou University, China



INCoS-2013 Main Conference and Workshops Program

Monday, September 9, 2013

08:00 Registration

08:30-09:00 Single Session: Opening - Plenary Room

09:00-10:00 Single Session: Keynote I - Plenary Room

Keynote I

Yang Xiang, Deakin University, Australia:

Classifying Network Traffic in the Big Data Era

10:00-10:30 Coffee Break

10:30-11:30 Single Session: Keynote II - Plenary Room

Keynote II

Xiaolei Dong, Shanghai Jiao Tong University, China:

Research Progress on Ciphertext Access Control for Cloud Computing

11:30-12:30 Single Session: Keynote III - Plenary Room

Keynote III

Dengguo Feng, Chinese Academy of Sciences (ISCAS), China:

The Theory and Practice in the Evolution of Trusted Computing

12:30-14:00 Lunch Break**14:00-15:30 Parallel Sessions****INCoS-S1: Cloud Computing: Service, Storage, and Virtualization - Room 1****Chair: Xiaofeng Chen, Xidian University, China**

1. Highly Flexible and Extensible Storage Scheme for Virtualization Platforms under Cloud Computing
Di Lu, Jianfeng Ma, Yichuan Wang, Ning Xi
2. V-MLR: A Multilevel Security Model for Virtualization
Hui Zhu, Yingfang Xue, Yun Zhang, Xiaofeng Chen, Hui Li, Ximeng Liu
3. RangeTree: A Feature Selection Algorithm for C4.5 Decision Tree
Hui Zhu, Siyu Chen, Lexiang Zhu, Hui Li, Xiaofeng Chen
4. An Adaptive Feedback Load Balancing Algorithm in HDFS
Kai Fan, Dayang Zhang, Hui Li, Yintang Yang

INCoS-S2: Encryption Techniques I - Room 2**Chair: Xinyi Huang, Fujian University, China**

1. Secure Obfuscation of Conditional Re-encryption with Keyword Search
Rong Cheng, Fangguo Zhang
2. FDR-ABE: Attribute-Based Encryption with Flexible and Direct Revocation
Yinghui Zhang, Xiaofeng Chen, Jin Li, Hui Li, Fenghua Li
3. Key Policy Attribute-Based Proxy Re-encryption with Matrix Access Structure
Keying Li, Yinghui Zhang, Hua Ma
4. Ciphertext-Policy Weighted Attribute Based Encryption for Fine-Grained Access Control
Ximeng Liu, Jianfeng Ma, Jinbo Xiong, Qi Li, Jun Ma

INCoS-S3: Software Engineering, Ontologies, and Semantics - Room 3**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. A Similarity Measure for the Description Logic EL with Unfoldable Terminologies
Boontawee Suntisrivaraporn
2. ProNet Framework: Network Management Using Semantics and Collaboration
Luciana Pereira Oliveira, Djamel F. Hadj Sadok
3. Towards Software Infrastructure for the Systematic Virtualization of Collaborative Learning Sessions
David Ganan, Santi Caballe, Jordi Conesa

W-CNT-S1: Communication Theory and Tools - Room 4**Chair: Xiaofeng Chen, Xidian University, China**

1. Optimal Design of the Joint Network LDPC Codes for Half-Duplex Cooperative Multi-access Relay Channel
Jingyi Wang, Shuling Che, Ying Li, and Junlong Wang
2. Distributed SR-LDPC Codes over Multiple-Access Relay Channel
Rong Sun and Jingwei Liu
3. Research on Optimization for Cooperative Spectrum Sensing Based on Double Threshold Energy Detection
Huiqin Liu, Shubin Wang, Fei Li, and Shaowen Zhan
4. An Ultrahigh Speed AES Processor Method Based on FPGA
Xin Cai, Rong Sun, and Jingwei Liu
5. An Efficient and Lightweight Certificateless Authentication Protocol for Wireless Body Area Networks
Lu Zhang, Jingwei Liu, and Rong Sun

W-IPA-S1: Image Processing and Applications - Room 5**Chair: Shigang Liu, Shaanxi Normal University, China**

1. Texture Image Denoising Algorithm Based on Structure Tensor and Total Variation
Caixia Li, Chanjuan Liu, and Yilei Wang
2. A Learning-Based Framework for Image Segmentation Evaluation
Jian Lin, Bo Peng, Tianrui Li, and Qin Chen
3. Face Recognition Based on Shearlets Transform and Principle Component Analysis
Zhiyong Zeng and Jianqiang Hu
4. Moving Object Tracking and 3D Measurement Using Two PTZ Cameras
Guang Zheng, Shunichiro Oe, and Zengguo Sun

15:30-16:00 Coffee Break**16:00-17:30 Parallel Sessions****INCoS-S4: Encryption Techniques II - Room 1****Chair: Jin Li, Guangzhou University, China**

1. An Efficient Proof of Retrievability with Public Auditing in Cloud Computing
Jin Li, Xiao Tan, Xiaofeng Chen, Duncan S. Wong
2. Secure Cloud File System with Attribute Based Encryption
Shuaishuai Zhu, Xiaoyuan Yang, Xuguang Wu
3. Security Analysis of Gagne et al. s Threshold Attribute-Based Signcryption Scheme
Chang-Ji Wang, Jia-Sen Huang, Wen-Long Lin, Hai-Tao Lin

4. Public Key Encryption with Ranked Multi-keyword Search
Chengyu Hu, Pengtao Liu

INCoS-S5: Clustering Techniques - Room 2**Chair: Vaclav Snasel, VSB-Technical University of Ostrava, Czech Republic**

1. An Efficient Pretopological Approach for Document Clustering
Thanh Van Le, Trong Nghia Truong, Hong Nam Nguyen, Tran Vu Pham
2. Towards the Modeling of Atomic and Molecular Clusters Energy by Support Vector Regression
Aleas Vitek, Martin Stachon, Pavel Kromer, Vaclav Snasel
3. The Contextual Group Recommendation
Jing Wang, Hui Li, Hui Zhao
4. Latent Dirichlet Allocation Based Semantic Clustering of Heterogeneous Deep Web Sources
Umara Noor, Ali Daud, Ayesha Manzoor

INCoS-S6: Security Techniques for Grid, Cloud, and Ubiquitous Computing Systems - Room 3**Chair: Ugo Fiore, Universit degli Studi di Napoli Federico II, Italy**

1. Design of a Security Framework on MapReduce
Zhen Guo, Xudong Zhu, Lijun Guo, Si Kang
2. Deceptive Detection and Security Reinforcement in Grid Computing
Jianhua Yu, Yue Luo, Xueli Wang
3. An Auditing Mechanism for the Security of Service in Grid
Zhusong Liu, Sheng Sun, Yunfa Li
4. An Energy-Aware Framework for Reliable and Secure End-to-End Ubiquitous Data Communications
Arcangelo Castiglione, Alfredo De Santis, Aniello Castiglione, Francesco Palmieri, Ugo Fiore

W-CNT-S2: Cipher Theory and Analysis - Room 4**Chair: Xiaofeng Chen, Xidian University, China**

1. Linear Complexity of Binary Generalized Cyclotomic Sequences of Order 6 over Z_{pq}
Tongjiang Yan and Yanyan Liu
2. A New Polyphase Generalized Sequence of Length pq And Its Linear Complexity
Tongjiang Yan and Pan Xu
3. (t, n) Threshold Digital Signature Scheme with Traceable Signers against Conspiracy Attacks
Zhao Lin-Sen and Liu Jing-Mei
4. Lagrange Interpolation Attack against 6 Rounds of Rijndael-128
Jingmei Liu, Shaopeng Chen, and Linsen Zhao

W-IPA-S2: Security Processing and Machine Learning Applications - Room 5**Chair: Shigang Liu, Shaanxi Normal University, China**

1. A Hybrid Encryption Scheme for Scalable Video Coding Based on H.264
Jianlong Zhang and Xinbo Gao
2. A Real-Time Template Generation Algorithm to Identify RMB Crest Number
Gaoyu Zhang and Yingying Wang
3. Tensor Missing Value Recovery with Tucker Thresholding Method
Junxiu Zhou, Shigang Liu, Guoyong Qiu, Fengmin Zhang, and Jiancheng Sun
4. A Spatially Varying Mean and Variance Active Contour Model
Yali Peng, Shigang Liu, Hong Fan, Jiamei Gao, and Jiancheng Sun

17:30-17:45 Break**17:45-19:00 Parallel Sessions****INCoS-S7: Intelligent Computing, Data Integrity, and Privacy Techniques - Room 1****Chair: Xiaofeng Chen, Xidian University, China**

1. Research on Polymorphism in Digital Text Watermarking
Yuanyuan Cheng, Jin Zhang, Xiaowei Liu, Qingcheng Li, Zhenlu Chen
2. Efficient Data Integrity Verification Using Attribute Based Multi-signature Scheme in Wireless Network
Ximeng Liu, Tao Zhang, Jianfeng Ma, Hui Zhu, Feng Cai
3. Towards Designing Privacy-Preserving Signature-Based IDS as a Service: A Study and Practice
Yuxin Meng, Wenjuan Li, Lam-For Kwok, Yang Xiang
4. Short-Term Network Traffic Prediction with ACD and Particle Filter
Gaoyu Zhang, Duiying Huang
5. Information Entropy Model for Anonymity Measurement
Jun Ye, Yong Ding, Xin-Guo Li

INCoS-S8: Intelligent Computing and Networking - Room 2**Chair: Vaclav Snasel, VSB-Technical University of Ostrava, Czech Republic**

1. Randomness and Chaos in Genetic Algorithms and Differential Evolution
Pavel Kromer, Vaclav Snasel, Ivan Zelinka
2. Wavelet Packet Variance Methods for Multi-period Analysis of Signal
Ruhua Cai
3. Numerical Approach for Automatic Theorem Proving in Plane Geometry
Siwen Guo

4. RGTE: A Reputation-Based Global Trust Establishment in VANETs
Xiaoqing Li, Jicheng Liu, Xuejun Li, Weiyang Sun
5. GRTR: A Geocasting Routing Based Target Region for VANET
Xiaoqing Li, Weiyang Sun, Xuejun Li, Jichen Liu

INCoS-S9: Security and Authentication Techniques - Room 3**Chair: Jianfeng Ma, Xidian University, China**

1. Fully Secure Decentralized Key-Policy Attribute-Based Encryption
Qi Li, Jianfeng Ma, Jinbo Xiong, Tao Zhang, Ximeng Liu
2. On Design of Nonlinear Operations and Round Functions of Block Ciphers with Resistance to ASCAs
Tang Ming, Sun Weijin, Gao Si, Wu Yuan, Peng Hongbo, Qiu Zhenlong, Wang Xin
3. Efficient Client-to-Client Password Authenticated Key Exchange Based on RSA
Ma Chuangui, Wei Fushan, Gao Fengxiu
4. A Secure Document Self-Destruction Scheme with Identity Based Encryption
Jinbo Xiong, Zhiqiang Yao, Jianfeng Ma, Ximeng Liu, Qi Li

W-IWCBFS-S1: E-Business, E-Commerce, and Supply Chains - Room 4**Chair: Wei Dai, Victoria University, Australia**

1. Creation of Customer Evaluation Model in the Catering Industry Supply Chain Ecosystem
Kai Wei, Juanqiong Gou, Rui Chai, and Wei Dai
2. A Collective Knowledge System for Business Partner Co-operation
Matteo Gaeta, Francesco Orciuoli, Pierluigi Ritrovato, Giuseppe Daniello, and Alfonso De Vivo
3. Framework for Real-Time Process Modeling of Supply Chains
Paul Moynihan and Wei Dai
4. On Three-Dimensional Digital Earth Application Development Framework and Its Applications
Zenghui Zhao, Jingnong Weng, Huaizhou Wang, Junyi Zhao, Jingui Li, and Anda Li
5. An Improved Database Inspection System for E-commerce Companies Based on Web Data Mining
Fuzhi Chu, Runtong Zhang, Rongqian Ni, and Wei Dai

W-IPA-S3: Intelligent Processing and Applications - Room 5**Chair: Shigang Liu, Shaanxi Normal University, China**

1. Pedestrian Classification Based on Improved Support Vector Machines
Hongmin Xue and Zhijing Liu
2. Fast 3D Ear Recognition Based on Local Surface Matching and ICP Registration
Heng Liu

3. Image Decomposition Using Bregman-GTV and Meyers G-Norm
Lu Chengwu and Zhou Daoqing
4. Facial Emotion Recognition Using PHOG and a Hierarchical Expression Model
Zhao Zhong, Gang Shen, and Wenhui Chen
5. Design and Implementation of Android Contacts Synchronization System Based on the SyncML Protocol
Hao Yujie and Yan Chao

19:30-21:30 Welcome Reception Party

Tang Cheng Hotel

Tuesday, September 10, 2013

08:00 Registration

09:00-10:30 Parallel Sessions

INCoS-S10: Intelligent Networking, Architectures, and Visualization - Room 1

Chair: Vaclav Snasel, VSB-Technical University of Ostrava, Czech Republic

1. Network Layout Visualization Based on Sammons Projection
Martin Radvansky, Miloa Kudelka, Zdenek Horak, Vaclav Snasel
2. Local Dependency in Networks
Sarka Zehnalova, Zdenek Horak, Milos Kudelka, Vaclav Snasel
3. Impact of Channel Estimation Error on Time Division Broadcast Protocol in Bidirectional Relaying Systems
Mingying Wu, Jing Li, Jianhua Ge, Chensi Zhang, Florin Pop
4. Research of Space Robot Autonomous Operation Architecture
Hang Yin, Yongming Gao, Guoqiang Zeng, Chao Wang
5. A Combined Predictor for Item-Based Collaborative Filtering
Zhonghuo Wu, Jun Zheng, Su Wang, Hongfeng Feng

INCoS-S11: Intelligent Collaborative Systems for Work and Learning - Room 2

Chair: Fatos Xhafa, Technical University of Catalonia, Spain

1. Context and the Virtual Campus: Collaboration in Tertiary Education
Philip Moore, Andrew Thomas, Fatos Xhafa, Leonard Barolli
2. A Social Semantic Repository for Special Needs Education
Vincenza Benigno, Nicola Capuano, Giuseppina Rita Mangione, Saverio Salerno
3. Building Intelligent Emotion Awareness for Improving Collaborative E-Learning
Thanasis Daradoumis, Marta Arguedas, Fatos Xhafa

INCoS-S12: Online Collaborative Systems and Virtual Campuses - Room 3

Chair: Santi Caballe, Open University of Catalonia, Spain

1. Providing Information Security to MOOC: Towards Effective Student Authentication
Jorge Miguel, Santi Caballe, Josep Prieto
2. Analysis of P2P Communications in Online Collaborative Teamwork Settings
Vladi Kolicic, Fatos Xhafa, Leonard Barolli
3. University Network-Design Based on Cloud Computing
He Xueni
4. BDI Goal Recognition for Agent Program Learning
Hongyun Xu, Youqun Shi, Qiyang Cao

W-ESN-S1: Networks - Room 4**Chair: Milos Kudelka, VSB-Technical University of Ostrava, Czech Republic**

1. Empirical Analysis and Evolution Modeling of Network Topological Structure in Microblog
Weiguo Yuan and Yun Liu
2. Visualization of Large Graphs Using GPU Computing
Tomas Jezowicz, Milos Kudelka, Jan Platos, and Vaclav Snasel
3. Evolution of Scale-Freeness in a Co-authorship Network
Pavel Kromer, Milos Kudelka, Zdenek Horak, and Vaclav Snasel

W-WIND-S1: Keynote Talk - Room 5**Chair: Masato Tsuru, Kyushu Institute of Technology, Japan**

1. Networking Technology Trend in Japan, Toward Earth-Friendly Infrastructure
Akira Arutaki

10:30-11:00 Coffe Break**11:00-12:30 Parallel Sessions****INCoS-S13: Security and Identity Schemes - Room 1****Chair: Xiaofeng Chen, Xidian University, China**

1. On Obfuscating Set-Membership Predicate Functions
Rong Cheng, Feng Diao, Fangguo Zhang
2. Fair Computation with Tit-for-Tat Strategy
Yilei Wang, Qiuliang Xu, Zhe Liu
3. Improved Efficient Priority-and-Activity-Based QoS MAC Protocol
Xiaoyu Li, Nan Chen, Changhua Zhu, Changxing Pei

INCoS-S14: Encryption and Authentication Algorithms and Protocols - Room 2**Chair: Xinyi Huang, Fujian University, China**

1. On Security Model of One-Round Authenticated Key Exchange
Haibo Tian
2. Private Set Intersection via Public Key Encryption with Multiple Keywords Search
Zhiyi Shao, Bo Yang, Yong Yu
3. A New Privacy-Preserving Broadcast Encryption Scheme from DPVS
Hao Wang, Zhihua Zheng, Yilei Wang
4. IDPKC-to-TPKC Construction of Multi-receiver Signcryption
Xiaotong Fu, Xiaowei Li, Wen Liu

INCoS-S15: Privacy and Signatures - Room 3**Chair: Duncan S Wong, City University of Hong Kong, China**

1. On Security Model of One-Round Authenticated Key Exchange
Wujun Zhang, Shunrong Jiang, Xiaoyan Zhu, Yumin Wang
2. Revocable Identity-Based Signature without Pairing
Yinxia Sun, Futai Zhang, Limin Shen, Robert Deng
3. Fixing the Sender-Equivocable Encryption Scheme in Eurocrypt 2010
Zhengan Huang, Shengli Liu, Baodong Qin, Kefei Chen

W-ESN-S2: Theoretical Background - Room 4**Chair: Milos Kudelka, VSB-Technical University of Ostrava, Czech Republic**

1. A Color Digital Watermarking in Nonsampled Contourlet Domain Using Generic Algorithm
Peng Luo, Ping Wei, and Yi-Qun Liu
2. Toward Construction of PVPKE in the Standard Model Based on Factoring Assumption
Xu An Wang, Jinting Nie, Yi Ding, and Junru Hu
3. An Improved Secure Unidirectional Proxy Re-encryption Scheme
Ping Wei and Shuaishuai Zhu

W-WIND-S2: Information Network Design - Room 5**Chair: Mario Koeppen, Kyushu Institute of Technology, Japan**

1. Network Design Problem by Link Protection to Keep Small Increase of Path Length during Link Failures
Kohei Nishida and Hiroyoshi Miwa
2. Delivering a File by Multipath-Multicast on OpenFlow Networks
Akira Nagata, Yoshiaki Tsukiji, and Masato Tsuru
3. Multi-Jain Fairness Index of Per-Entity Allocation Features for Fair and Efficient Allocation of Network Resources
Mario Kppen, Kei Ohnishi, and Masato Tsuru
4. An Efficient Tripartite Identity-Based Authenticated Key Agreement Protocol
Xiaotong Fu, Shufang Guo, and Ruijun Shi

12:30-13:30 Lunch Break**13:30-15:00 Parallel Sessions**

INCoS-S16: Signature Models and Schemes - Room 1**Chair: Jin Li, Guangzhou University, China**

1. A New Construction of Proxy Signature Using Chameleon Hash Function
Yannan Li, Qi Xia, Jianbing Ni, Yong Yu
2. General Certificateless Strong Designated Verifier Signature Schemes
Haibo Tian
3. Efficient Implementation of Tate Pairing with Montgomery Ladder Method
Yulong Tian, Dawu Gu, Haihua Gu
4. Blind Signature Scheme Based on Quartic Residues
Jianhua Yu, Kun Wang, Pingzhi Yuan, Xueli Wang

INCoS-S17: Machine Learning and Optimization Techniques - Room 2**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Simulation of the Adaptive Multivariate Exploration for Routes Guidance
Walisa Romsaiyud
2. Prediction of Multi-class Industrial Data
Jan Platos, Pavel Kromer
3. Content Based Spam Text Classification: An Empirical Comparison between English and Chinese
Liumei Zhang, Jianfeng Ma, Yichuan Wang
4. Performance Evaluation of WMN-GA for Wireless Mesh Networks Considering Mobile Mesh Clients
Tetsuya Oda, Shinji Sakamoto, Evjola Spaho, Makoto Ikeda, Fatos Xhafa, Leonard Barolli
5. Game Optimization for Time-Critical Multicast Data Origin Authentication: Trade Off between Security and Efficiency
Yichuan Wang, Jianfeng Ma, Di Lu, Liumei Zhang, Xiang Lu

INCoS-S18: Digital Signatures - Room 3**Chair: Xiaofeng Chen, Xidian University, China**

1. Yet Another Way to Construct Digital Signature in the Standard Model
Jindan Zhang, Xu An Wang
2. New Construction of PVPKE Scheme Based on Signed Quadratic Residues
Jindan Zhang, Xu An Wang
3. Efficient Predicate Encryption Supporting Construction of Fine-Grained Searchable Encryption
Minqing Zhang, Xu An Wang, Xiaoyuan Yang, Weiyi Cai
4. Constructing Connected Dominating Set Based on Crossed Cube in WSN
Jing Zhang, Li Xu, Shu-Ming Zhou, Wei Wu

15:00-15:30 Coffee Break**15:30-17:00 Parallel Sessions****INCoS-S19: Mobile and Sensor Networks - Room 1****Chair: Hiroyoshi Miwa, Kwansai Gakuin University, Japan**

1. A Delay Sensitive Time Slots Scheduling in Vehicular Sensor Networks
Chen Chen, Xiaolu Wei, Yanan Jin, Shengjin Ge
2. Methods for Determining the Restoration Order of Base Nodes in the Virtual Segment Network
Hiroshi Tsuji, Akihiro Fujihara, Hiroyoshi Miwa
3. Efficient Data Gathering in Intermittent Connected Mobile Sensor Networks
Yongping Xiong, Shizhong Wu, Tao Zhang, Yubo Deng, Shiwu Chen

INCoS-S20: Security and Cryptography - Room 2**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. A Secure and Efficient E-Cheque Protocol from Chameleon Hash Function
Ying Sun, Jiwen Chai, Huihui Liang, Jianbing Ni, Yong Yu
2. Research on the Degeneration Problem of Key Sequence Based on Chaos
Jing-Jing Wang, Ping Wei, Jia-Yong Chen
3. Secure Multi-party Confidential Protocol of Matrix Factorization
Haiyan Xiao, Xiaoyuan Yang
4. ID-Based Signcryption with Restrictive Unsigncryption
Fei Tang, Changlu Lin, Hongda Li

INCoS-S21: Security Resilience and Signatures - Room 3**Chair: Jin Li, Guangzhou University, China**

1. Ternary Method in Elliptic Curve Scalar Multiplication
Ning Zhang, Xiaotong Fu
2. Leakage-Resilient Proxy Signatures
Fei Tang, Hongda Li, Qihua Niu, Bei Liang
3. A Server-Aided Aggregate Verification Signature Scheme from Bilinear Pairing
Huai Wu, Chunxiang Xu, Jiang Deng
4. Elliptic Curve Scalar Multiplication Based on Fibonacci Number
Ning Zhang, Shichong Tan

W-SCC-S1: Secure Cloud Computing - Room 4**Chair: Qianhong Wu, Xidian University, China**

1. Finding Key Leakage in Hierarchical Distribution of Encrypted Data
Hua Deng, Bo Qin, Ruiying Du, Huaguo Zhang, Lina Wang, Jianwei Liu, and Jian Mao
2. An Effective Fuzzy Keyword Search Scheme in Cloud Computing
He Tuo and Ma Wenping
3. BaitAlarm: Detecting Phishing Sites Using Similarity in Fundamental Visual Features
Jian Mao, Pei Li, Kun Li, Tao Wei, and Zhenkai Liang
4. Attribute-Based Signcryption Scheme with Non-monotonic Access Structure
Yiliang Han, Wanyi Lu, and Xiaoyuan Yang

17:00-18:00 Parallel Sessions**INCoS-S22: Trust and Sharing - Room 1****Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Proactive Secret Sharing without a Trusted Party
Xiuqun Wang, Changlu Lin, Yong Li
2. Fault and Intrusion Tolerance of Complex Networks: A Controllability View
Yuehua Zhou, Yong Zeng, Zhihong Liu, Nan Li, Jianfeng Ma, Lihua Dong
3. Fully Secure Attribute-Based Encryption with Non-monotonic Access Structures
Xiaoyuan Yang, Weidon Du, Xuanwang, Liqiang Wang
4. Dynamic Trust Threshold Value Based on Market Theory in Cognitive Radio Networks
Qingqi Pei, Conglin Wang, Zi Li

INCoS-S23: Encryption, Information Storage, and Retrieval - Room 2**Chair: Xinyi Huang, Fujian University, China**

1. RLWE-Based Homomorphic Encryption and Private Information Retrieval
Wei Zhang, Shuguang Liu, Yang Xiaoyuan
2. A Secure Cloud Storage System from Threshold Encryption
Chuan Yao, Li Xu, Xinyi Huang
3. Outsourcing of Verifiable Composite Modular Exponentiations
Jie Liu, Bo Yang, Zhiguo Du
4. A Ciphertext-Policy Attribute-Based Proxy Re-encryption with Chosen-Ciphertext Security
Kaitai Liang, Liming Fang, Willy Susilo, Duncan S. Wong

INCoS-S24: Signature Models and Schemes - Room 3**Chair: Xiaofeng Chen, Xidian University, China**

1. Anonymous Single Sign-On Schemes Transformed from Group Signatures
Jingquan Wang, Guilin Wang, Willy Susilo
2. Lattice-Based Multi-party Concurrent Signatures Scheme
Shangping Wang, Lihua Liu, Juanjuan Chen, Jin Sun, Xinwen Zhang, Yaling Zhang

3. Attribute-Based Signatures with Efficient Revocation

Yanling Lian, Li Xu, Xinyi Huang

4. Post-quantum Strongly Unforgeable Identity-Based Signature Scheme from Lattices without Random Oracles

Zhenhua Liu, Xiangsong Zhang, Tsuyoshi Takagi

W-SCC-S2: Secure Data Storage and Networking - Room 4**Chair: Qianhong Wu, Xidian University, China**

1. Secure Distributed Key Generation on Vector Space Access Structures in Bilinear Groups

Jie Zhang and Futai Zhang

2. An Improved Identity-Based Batch Verification Scheme for VANETs

Bao Liu and Lei Zhang

3. A Multi-user Searchable Symmetric Encryption Scheme for Cloud Storage System

Zhang Yaling, Jia Zhipeng, and Wang Shangping

4. A Hybrid System for Authentication Service

Yongqiang Zhang, Qiang Liu, and Haibo Tian

INCoS-S25: Intelligent Computing & Next-Generation Network Protocols - Room 5**Chair: Jin Li, Guangzhou University, China**

1. Efficient Algorithm for Detecting Firewall Rule Conflict

Xu Yan, Wei Zhaoxia, Tang Qingrong

2. The Research on Algorithm for Congestion Control Based on Video Transmission

Hao Yujie, Fang Wei

3. Guaranteed QoS Resource Scheduling Scheme Based on Improved Electromagnetism-Like Mechanism Algorithm in Cloud Environment

Shang Yun

4. Application of Evolutionary Neural Network in Infrared Nondestructive Test

Zi-Jun Wang, Jing-Min Dai, Zhao-Xuan Zhu

5. Cloud Model-Based Multi-objective Estimation of Distribution Algorithm with Preference Order Ranking

Ying Gao, Waixi Liu

19:30-21:30 Banquet Party

Defachang Dumplings, Bell Tower (We arranged the bus for all participants)

Wednesday, September 11, 2013**08:00 Registration****09:00-10:00 Parallel Sessions****W-FINCoS-S1: Security, Encryption, and Authentication Services - Room 1****Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Public Verifiable Key Encapsulation Mechanism under Factoring
Zhen Liu and Xiao Yuan Yang
2. Provably-Secure Certificateless Proxy Re-signature Scheme
Haiyan Xiao and Mingqing Zhang
3. Research on Cloud Computing Based Data Processing for Financial Terminal Equipment
Zhou Zhizhao
4. Intelligent Network Course Platform Based on Agent
Zhong Yangjing and Li Xiangyang

10:00-10:30 Coffee Break**10:30-11:30 Parallel Sessions****W-FINCoS-S2: Intelligent Data Processing, Optimization, and Analysis - Room 2****Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. The Permanent Magnet Synchronous Linear Motor Position Control Based on Fuzzy Neural Network
Li Cailin and Wang Dongmei
2. Low-Complexity Resource Allocation in Rate-Constrained OFDMA Downlink Systems
Chen Xiao-Mao and Ou-Yang Shan
3. Design of Array Signal Processing System Based on TMS320C6678
Li Xiangyang
4. An Approach for Regression Test Case Selection Using Object Dependency Graph
Adipat Larprattanakul and Taratip Suwannasart

12:30-14:00 Lunch Break

Tang Cheng Hotel



EIDWT-2013 Main Conference and Workshops Program

Monday, September 9, 2013

08:00 Registration

08:30-09:00 Single Session: Opening - Plenary Room

09:00-10:00 Single Session: Keynote I - Plenary Room

Keynote I

Yang Xiang, Deakin University, Australia:

Classifying Network Traffic in the Big Data Era

10:00-10:30 Coffee Break

10:30-11:30 Single Session: Keynote II - Plenary Room

Keynote II

Xiaolei Dong, Shanghai Jiao Tong University, China:

Research Progress on Ciphertext Access Control for Cloud Computing

11:30-12:30 Single Session: Keynote III - Plenary Room

Keynote III

Dengguo Feng, Chinese Academy of Sciences (ISCAS), China:

The Theory and Practice in the Evolution of Trusted Computing

12:30-14:00 Lunch Break**14:00-15:30 Parallel Sessions****EIDWT-S1: Wireless Networks - Room 6****Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Protection Profile for the Smart Phone Operating System
Sang Jun and Hong Daxiang
2. A Multi-channel and Real-Time Disaster Recovery Backup Method Based on P2P Streaming
Dongyan Zhang and Tao Zhang
3. Transmission Distance Estimation and Testing for 2.4GHz ZigBee Applications
Lei Gao and Yuan-Dong Lan
4. Multiflow TCP Traffic in VANETs: Performance Comparison of OLSR and AODV Routing Protocols
Evjola Spaho, Shinji Sakamoto, Makoto Ikeda, Leonard Barolli, Fatos Xhafa, and Vladi Kolic
5. Analyzing AODV Control Packets and Throughput for Different Mobility Degrees and Multiflow Traffic
Elis Kulla, Shinji Sakamoto, Makoto Ikeda, and Leonard Barolli

W-CEWE-S1: Secure Schemes - Plenary Room**Chair: Olga Angelopoulou, University of Derby, UK**

1. A New Certificate-Based Digital Signature Scheme
Jianglang Feng and Jindong Li
2. Code-Based Designated Verifier Signature Scheme
Wang Hongbin and Ren Yan
3. A Secure Proxy Signature Scheme in Bilinear Group
Jianglang Feng and Jindong Li
4. An Agent-Based Socio-technical Approach to Impact Assessment for Cyber Defense
Konstantinia Charitoudi and Andrew Blyth

15:30-16:00 Coffee Break**16:00-17:30 Parallel Sessions**

EIDWT-S2: Data Centers and Cloud Computing I - Room 6**Chair: Jin Li, Guangzhou University, China**

1. Parallel Prefix Algorithm on BSN-Mesh
Wenhong Wei, Qingxia Li, and Ming Tao
2. A New Approach to Scalable ROIA in Cloud
Dong Liu and Yue-Long Zhao
3. Performance Weighted Deploying and Scheduling Strategy Research for Virtual Machine on Clouds
Guo Fen, Min Hua-Qing, and Yang Jie
4. Homomorphic Signatures for Correct Computation of Group Elements
Peili Li and Haixia Xu
5. An Overlapping Architecture for ROIA in Cloud
Liu Dong and Zhao Yue-Long

W-CEWE-S2: Intelligent Algorithms and Systems - Plenary Room**Chair: Olga Angelopoulou, University of Derby, UK**

1. Design and Implementation of Authentication and Authorization Flow in ESCP System
Chundong Wang, Guangming Bo, and Yaohui Zhang
2. An Attribute-Based Anonymous Authentication Scheme
Wang Hongbin and Ren Yan
3. Key Management Scheme Based on Secret Sharing for Wireless Sensor Network
Wu Chunying, Li Shundong, and Zhang Yiyi
4. An Adaptive Algorithm for Blind MMSE Equalization of SIMO Channels
Caiyun Chen and Junshan Yu

17:30-17:45 Break**17:45-19:00 Parallel Sessions****EIDWT-S3: Data Management and Information Retrieval - Room 6****Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Applying Information Retrieval Technology in Analyzing the Journals
Wen-Liang Xie, Yan-Min Li, and Yijun Zhang
2. Web Service Automatically Layout Generation Method
Gui-Cheng Wu, Jie Yang, and De-You Tang
3. A Dynamic Data Fault-Tolerance Mechanism for Cloud Storage
Liyi Wu, Bo Liu, and Weiwei Lin

4. The Finite Volume Element Method for a Class of Parameter Identification Problem with Overspecified-Data
Zhiguang Xiong, Kang Deng, Yanping Liu, and Xiaocui Yan
5. The Construction of Knowledge Sharing Platform in Universities under the Ubiquitous Network Environment
Zeng Qun and Xu Weihua

W-CEWE-S3: Security Frameworks and Models - Plenary Room**Chair: Olga Angelopoulou, University of Derby, UK**

1. FlowWalker: A Fast and Precise Off-Line Taint Analysis Framework
Baojiang Cui, Fuwei Wang, Tao Guo, Guowei Dong, and Bing Zhao
2. Policing as a Service in the Cloud
Shahrzad A. Zargari and Anthony Smith
3. Social Network Message Credibility: An Agent-Based Modelling Approach
Oghendefejiro and Winnie Makinde
4. A Discussion on the Recovery of Data from a Virtual Machine
Nathaniel James Healey, Olga Angelopoulou, and David Evans

19:30-21:30 Welcome Reception Party

Tang Cheng Hotel

Tuesday, September 10, 2013

08:00 Registration

09:00-10:30 Parallel Sessions

EIDWT-S4: Cryptographic Techniques for Data Security I - Room 6

Chair: Zheli Liu, Nankai University, China

1. A Kind of Verifiable Visual Cryptography Scheme
Xiaoqing Tan and Qiong Zhang
2. Format-Preserving Fuzzy Query Mechanism
Zheli Liu, Chunfu Jia, Jun Yang, and Ke Yuan
3. Verifiable Quantum Secret Sharing Protocol
Xiaoqing Tan, Zhihong Feng, Lianxia Jiang, and Afen Fang
4. Forgery Attack on Two ID-Based Proxy Signature Schemes from Bilinear Pairings
Chang-Ji Wang, Yuan Li, and Xi-Lei Xu

EIDWT-S5: Cryptographic Techniques for Data Security II - Room 7

Chair: Duncan Wong, City University of Hong Kong, China

1. A Family of Quadratic Residue Codes over Z_{2^m}
Xiaoqing Tan
2. Public Key Timed-Release Searchable Encryption
Ke Yuan, Zheli Liu, Chunfu Jia, Jun Yang, and Shuwang Lv
3. Multi-user Searchable Encryption with Coarser-Grained Access Control in Hybrid Cloud
Zheli Liu, Zhi Wang, Xiaochun Cheng, Chunfu Jia, and Ke Yuan
4. Security Analysis and Improvement for Kerberos Based on Dynamic Password and Diffie-Hellman Algorithm
Chundong Wang and Chaoran Feng
5. Image Encryption Scheme Based on Multiple Chaotic Maps
Xuan Li
6. UBKM: A Usage-Based Key Management Protocol for Distributed Sensor Networks
Baojiang Cui, Ziyue Wang, Tao Guo, Guowei Dong, and Bing Zhao

10:30-11:00 Coffe Break

11:00-12:30 Parallel Sessions

EIDWT-S6: Security, Trust, and Reputation I - Room 6**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Experimental Study of Web Service Availability Based on WSDL Documents
Liyuan Xin, Zhiyong Feng, and Shizhan Chen
2. Multi-user Public Key Timed-Release Searchable Encryption
Ke Yuan, Zheli Liu, Chunfu Jia, Jun Yang, and Shuwang Lv
3. A Novel Method of Filtering Internet Background Radiation Traffic
Ruoyu Wang, Ling Zhang, and Zhen Liu
4. Extracting Sent Message Formats from Executables Using Backward Slicing
Min Liu, Chunfu Jia, Lu Liu, and Zhi Wang

EIDWT-S7: Security, Trust, and Reputation II - Room 7**Chair: Jin Li, Guangzhou University, China**

1. Analyzing and Controlling Information Inference of Fine-Grained Access Control Policies in Relational Databases
Jie Shi, Ge Fu, Jian Weng, and Hong Zhu
2. A Code Comparison Algorithm Based on AST for Plagiarism Detection
Jianglang Feng, Baojiang Cui, and Kunfeng Xia
3. A Mobile Ordering Scheme Based on LBS
Hai-Fei Li, Li-Hua Dong, and Jian-Fei Han
4. A Scalable Clock Controlled Generator Based on Cellular Automata
Jian-Fei Han, Li-Hua Dong, and Hai-Fei Li
5. Efficient Chosen Ciphertext Secure Threshold Public-Key Encryption with Forward Security
Xujie Zhang, Chunxiang Xu, and Wenzheng Zhang

12:30-13:30 Lunch Break**13:30-15:00 Parallel Sessions****EIDWT-S8: Security, Trust, and Reputation III - Room 4****Chair: Jin Li, Guangzhou University, China**

1. Server-Aided Verification Signatures with Privacy
Lingling Xu and Shaohua Tang
2. Trust Management for IaaS with Group Signature
Haiyu Wang, Gansen Zhao, Qi Chen, and Yong Tang
3. An Efficient Provably Secure Certificate-Based Blind Signature Scheme
Rufen Huang and Qiang Nong

EIDWT-S9: Security, Trust, and Reputation IV - Room 5**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. A Novel Triple Encryption Scheme for Hadoop-Based Cloud Data Security
Chao Yang, Weiwei Lin, and Mingqi Liu
2. Secure and Efficient Data-Sharing in Clouds
Jiang Zhang and Zhenfeng Zhang
3. Verifiable Evaluation of Private Polynomials
Xu Ma, Fangguo Zhang, and Jin Li
4. A Security Information Transmission Scheme for Internet of Things
Zhongwen Li, Jun Fu, Wenjie Fan, and Rongyu Long

EIDWT-S10: Social Networking - Room 6**Chair: Qiong Huang, South China Agricultural University, China**

1. Implementation and Transmission Error Handling of Multi-channel LVDS
Li Xiangyang
2. Automatic Patching Based on Social Computing in P2P Network
Liu Xin, Xin Zhaojun, and Shi Leyi
3. A SEIR-based Model for Virus Propagation on SNS
Chao Wang, Ke Xu, and Gaoyu Zhang
4. Latent Factor Model Based on Simple Singular Value Decomposition for Personalized Comment Recommendation
Guangyi Zhang, Yu Liu, Junting Chen, Yi Cai, and Huaqing Min
5. Explore Social Question and Answer System Based on Relationships in Social Network
Qing Du, Qixuan Wang, Jiaying Cheng, Yi Cai, Tao Wang, and Huaqing Min
6. Sentiment Analysis for Cantonese Opinion Mining
Jian Chen, Yu Liu, Guangyi Zhang, Yi Cai, Tao Wang, and Huaqing Min

W-IIPTC-S1: Intelligent Information Processing - Room 7**Chair: Zheli Liu, Nankai University, China**

1. Research on Spatial Adaptive Strategy of End-Hopping System
Chunlei Zhao and Chunfu Jia
2. A Packet Error Rate of AIS Messages Measurement System
Gong Mingju, Ma Shexiang, Meng Xin, Zhang Shuanggen, Wu Huibo, and Rui Xue
3. Multivariate Spectral Conjugate Gradient Projection Method for Nonlinear Monotone Equations
Yuanying Qiu, Ying Chen, Lei Li, and Xianwen He
4. A Novel Gray Scale Watermarking Method in Wavelet Domain
Han Jialinh and Zhao Xiaohui

15:00-15:30 Coffee Break**15:30-17:00 Parallel Sessions****EIDWT-S11: DTNs and Secure Systems - Room 5****Chair: Jin Li, Guangzhou University, China**

1. A Multicast Routing Scheme Based on Social Differences in Delay-Tolerant Networks
Xia Deng and Le Chang
2. Sociality-Based Buffer Management for Multicast in DTNs
Xia Deng and Le Chang
3. Cryptanalysis of the Lightweight Block Cipher Hummingbird-1
Xunjun Chen, Yuelong Zhu, Zheng Gong, and Yiyuan Luo

EIDWT-S12: Algorithms, Models, and Protocols - Room 6**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Designing a GPU Based Heat Conduction Algorithm by Leveraging CUDA
Xiaohua Meng, Dasheng Qin, and Yuhui Deng
2. A New Evaluation Model to Building Materials Science Domain-Specific Search Engine
Yang Li and Changjun Hu
3. Performance Compensation for the False Alarm of L2 Trigger in FMIPv6
Ming Tao, Huaqiang Yuan, Wenhong Wei, Zhixiong Li, and Yong Qin
4. The S-Quasinormal Embedding Property of Subgroups in a Finite Group
Liyang Yang, Huaquan Wei, and Chengqun Li

W-IIPTC-S2: Authentication and Key Management - Room 7**Chair: Zheli Liu, Nankai University, China**

1. Optimization of Air Pollutant Monitoring Stations Based on Genetic Algorithm
Kai Wang, Yanan Ding, Hong Zhao, Lujian Hou, and Fengjuan Sun
2. Analyzing the Cooling Behavior of Hot and Cold Aisle Containment in Data Centers
Yongmei Xu, Zeqi Gao, and Yuhui Deng
3. Bio-inspired Application Scheduling Algorithm for Mobile Cloud Computing
Xianglin Wei, Jianhua Fan, Ziyi Lu, Ke Ding, Ran Li, and Guomin Zhang
4. Exemplar Image Completion Based on Evolutionary Algorithms
Kangshun Li and Zhen Yang

17:00-18:00 Parallel Sessions**W-DINST-S1: Development & Implementation of New Systems and Tools - Room 6****Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Performance Comparison of a WMN-SA System for Different Distributions of Mesh Clients
Shinji Sakamoto, Elis Kulla, Tetsuya Oda, Makoto Ikeda, Leonard Barolli, and Fatos Xhafa
2. Performance Analysis of WMNs Using Hill Climbing Algorithm Considering Different Iterations per Phase
Xinyue Chang, Tetsuya Oda, Evjola Spaho, Makoto Ikeda, Leonard Barolli, and Fatos Xhafa
3. A Fuzzy-Based Simulation System for Controlling Sensor Sleep Time through Lifetime of Sensors in WSNs
Qi Wang, Shinji Sakamoto, Leonard Barolli, Elis Kulla, Gjergji Mino, and Makoto Ikeda
4. A Generic Construction of Identity-Based Group Signature
Liqiong Ma

W-IIPTC-S3: Security and Detection - Room 7**Chair: Zheli Liu, Nankai University, China**

1. A Comparative Study on CRFs for Fore- and Background Classification
Kai Wang, Xingli Zhao, Hong Zhao, and Jian Zhang
2. Research on the Text Detection and Extraction from Complex Images
Jian Zhang, Renhong Cheng, Kai Wang, and Hong Zhao
3. Improved Plagiarism Detection Algorithm Based on Abstract Syntax Tree
Guo Tao, Dong Guowei, Qin Hu, and Cui Baojiang
4. Format Compliant Degradation for PNG Image
Zheli Liu, Xiaochun Cheng, Chunfu Jia, and Jun Yang

19:30-21:30 Banquet Party

Defachang Dumplings, Bell Tower (We arranged the bus for all participants)

Wednesday, September 11, 2013**08:00 Registration****09:00-10:00 Parallel Sessions****EIDWT-S13: Data Centers and Cloud Computing II - Room 2****Chair: Jin Li, Guangzhou University, China**

1. Virtual DataspaceA Service Oriented Model for Scientific Big Data
Wei Lin, Changjun Hu, Yang Li, and Xin Cheng
2. Web Service Combination Algorithm by Using QoS Constraint
Bi Lingyan and Yang Jie
3. A Qos Guided Task Scheduling Model in Cloud Computing Environment
Haiwen Han, Qi Deyui, Weiping Zheng, and Feng Bin
4. Novel Resource Allocation Model and Algorithms for Cloud Computing
Weiwei Lin, Baoyun Peng, Chen Liang, and Bo Liu
5. Quality Model for Evaluating SaaS Service
Pang Xiong Wen and Li Dong

EIDWT-S14: Data Modeling, Visualization, and Representation Tools - Room 3**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. A Category Theoretic Method of Temporal Data Model
Decheng Miao, Jianqing Xi, and Jindian Su
2. Modeling MongoDB with Relational Model
Gansen Zhao, Weichai Huang, Shunlin Liang, and Yong Tang
3. A Concept Drifting Based Clustering Framework for Data Streams
Gansen Zhao, Ziliu Li, Fujiao Liu, and Yong Tang

EIDWT-S15: Parallel Processing and Superconvergence - Room 4**Chair: Shengli Liu, Shanghai Jiaotong University, China**

1. Cost Evaluation of Three-Dimensional Many-Core Processors
Ji Wu, Dongqing Xie, Lin Tang, and Hao Wang
2. Cost Evaluation of Three-Dimensional Network-on-Chip
Ji Wu, Dongqing Xie, Lin Tang, and Hao Wang
3. Automatic Balancing Chord: A Dynamic Load Balancing Mechanism for High Efficient
Bin Hu, Xiaotong Zhang, and Xiaolu Zhang
4. Superconvergence of Discontinuous Finite Element Method for Delay-Differential Equations
Kang Deng, Zhiguang Xiong, Xiaocui Yan, and Yanping Liu

5. Parallel and Multiplex Architecture of AES-CCM Coprocessor Implementation for IEEE 802.15.4

Bin Feng, De-yu Qi, and Han Haiwen

EIDWT-S16: Knowledge Discovery and Data Mining - Room 5

Chair: Jin Li, Guangzhou University, China

1. A New Model of Combining Multiple Classifiers Based on Neural Network
Yuan-Dong Lan and Lei Gao
2. iTrade: An Adaptive Risk-Adjusted Intelligent Stock Trading System from the Perspective of Concept Drift
Yong Hu, Bin Feng, Xiangzhou Zhang, Kang Liu, Kang Xie, and Mei Liu
3. A Fractal Component Based Knowledge Domain Model
Soufiane Boulehouache, Remdane Maamri, Kroun Imen, and Zaidi Sahnoun

W-FEIDWT-S1: Optimization and Clustering - Room 6

Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan

1. Improving Association Rules by Optimizing Discretization Based on a Hybrid GA: A Case Study of Data from Forest Ecology Stations in China
Jianxin Wang, Fan Yang, Xiaoli Dong, Ben Xu, and Baojiang Cui
2. Image Feature Analysis of Lymph Node Based on Cloud-Model and FCM Clustering
Yanling Zhang, Minghao Zhang, and Li Li
3. Eliminating Error Accumulation in Hierarchical Clustering Algorithms
Yanan Jin and Fei Xiao

W-SCOPE-S1: Algorithms and Models - Room 7

Chair: Fatos Xhafa, Technical University of Catalonia, Spain

1. Data Masking Generic Model
Min Li, Zheli Liu, Chunfu Jia, and Zongqing Dong
2. A Research on Multiuser Collaborative Modelling and Simulating Network System
Youtian Wang and Bin Hu
3. A Conjugate Gradient Method without Line Search and the Convergence Analysis
Jinhong Huang and Genjiao Zhou
4. Error Analysis on Floating-Point Arithmetic in C Programming Language Library Functions
Min Tang, Xia Zeng, Kai Song, and Jian Liu

10:00-10:30 Coffee Break

10:30-11:30 Parallel Sessions

EIDWT-S17: Natural Inspired Computing for Collective Intelligence I - Room 2**Chair: Xiaofeng Chen, Xidian University, China**

1. A KFDA Based on Regularization Method for Multi-classification
De-Jiang Luo
2. Single Objective Guided Multiobjective Optimization Algorithm
Jiahai Wang, Chenglin Zhong, and Ying Zhou
3. Enhancing Query Performance by Avoiding Negative Interactions
Qing-Feng Zhang, Jing Xu, Shan-Shan Li, and Qing-Ju Wang

EIDWT-S18: Natural Inspired Computing for Collective Intelligence II - Room 3**Chair: Jin Li, Guangzhou University, China**

1. Multi-objective Optimization Evolutionary Algorithm Based on Point-to-Weight Method
Xueqiang Li, Jiang Wang, Jing Xiao, and Xiaoling Zhang
2. Codebook Beam Switching Based Relay Scheme for 60 GHz Anti-blockage Communication
Chunlei Wu, Hao Zhang, Xuerong Cui, and Guoping Zhang
3. Adaptive Differential Evolution with Competent Leaders
Yiqiao Cai and Weibin Chen
4. Optimizing Weight and Threshold of BP Neural Network Using SFLA: Applications to Non-linear Function Fitting
Hongwei Ye, Linfang Yang, and Xiaozhang Liu

EIDWT-S19: Cryptographic Techniques for Data Security III - Room 4**Chair: Xinyi Huang, Fujian University, China**

1. Clustering Model Based on Node Local Density Load Balancing of Wireless Sensor Network
Jing Zhang and Ting Yang
2. Design of an Instant Messaging System Using Identity Based Cryptosystems
Chang-Ji Wang, Wen-Long Lin, and Hai-Tao Lin
3. A Novel Somewhat Homomorphic Encryption over Integers
Ding Yong, Wang Zheng, and Li Xinguo

W-SeDiS-S1: Large-Scale Distributed Systems - Room 5**Chair: Alexandru Petculescu, University Politehnica of Bucharest, Romania**

1. MASFA Mobile Services Framework
Alexandru Petculescu
2. Energy Efficient Cloud Storage Service: Key Issues and Challenges
Catalin Negru, Florin Pop, Valentin Cristea, Nik Bessisy, and Jing Li
3. Dynamic Creation of BSP/CGM Clusters on Cloud Computing Platforms
Alessandro Kraemer, Junior Cesar de Oliveira, Fabio Andr Garaluz dos Santos, Ana Claudia Maciel, Alfredo Goldman, and Daniel Cordeiro
4. Accountable Authority Attribute-Based Signature
Ren Yan, Tang Chunming, Wang Guilin, and Duncan S. Wong

W-FEIDWT-S2: Secure Systems - Room 6**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Server-Aided Hierarchical Identity-Based Encryption
Jin Li, Dongqing Xie, and Xiaofeng Chen
2. The Systematic Form of a Class of Regular Structured LDPC Codes
Xiuni Wang and Dongqing Xie
3. Constant Size Hierarchical Identity-Based Encryption Tightly Secure in the Full Model without Random Oracles
Yijun Mao, Xi Zhang, Min-Rong Chen, and Yiju Zhan
4. Two Efficient Identity Based Signature Schemes
Liqiong Ma

W-SCOPE-S2: Multimedia Systems and Applications - Room 7**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. A Combining Spatial Enhancement Method for Low Illumination Images
Wenjing Zhao, Zhong Cao, and Pan Liu
2. XML Retrieval with Structural Context Relaxation
Yanlong Wen, Xinkun Li, Xiangrui Cai, Ying Zhang, and Xiaojie Yuan
3. A New Idea of Identifying Flat-Fading MIMO Channel by Using Space-Time Coding
Caiyun Chen and Junshan Yu

11:30-12:30 Parallel Sessions**EIDWT-S20: New Cryptographic Techniques for Data Security IV - Room 2****Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Improving the Parallelized Pollard Rho Method for Computing Elliptic Curve Discrete Logarithms
Ping Wang and Fangguo Zhang
2. A Secure Anonymous Identity-Based Access Control over Cloud Data
Zhusong Liu
3. Bio-inspired Algorithms for FPGA Implementation of RFID Base-Band Transmission Model & IP Core
Xiaodan Liang, Jigang Wu, and Liangyu Li
4. A Note on a Class of Permutation Polynomials
Yanbin Zheng
5. Cryptanalysis of a Certificateless Proxy Re-encryption Scheme
Yulin Zheng, Shaohua Tang, Chaowen Guan, and Min-Rong Chen

EIDWT-S21: Web Science, Business Intelligence, and WSNs - Room 3**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. New Semantic Indexing and Search System Based on Ontology
Fraihat Salam
2. An Access Control Model Based on Web Application
Fu-Bao Liao, Wen-Mei Zhang, and Xiang-Yang Li
3. Event Driven Self-Adaptive Routing Algorithm in Wireless Sensor Network
Jing Zhang and Ting Yang
4. An Energy Efficiency Trusted Dynamic Routing Protocol for Wireless Sensor Networks
Zhou Quan, Daixian Wu, Deqin Xiao, Yang Zhang, and Chunming Tang

EIDWT-S22: Security and Authentication - Room 4**Chair: Jin Li, Guangzhou University, China**

1. The Transformation from the Galois NLFSR to the Fibonacci Configuration
Lin Zhiqiang
2. A Provably Secure Server-Aided Verification Signature
Qun Lin
3. TSHC: Trusted Scheme for Hadoop Cluster
Zhou Quan, Deqin Xiao, Daixian Wu, Chunming Tang, and Chunming Rong
4. Controlled Quantum Teleportation with Identity Authentication
Xiaoqing Tan, Lianxia Jiang, and Qiong Zhang

12:30-14:00 Lunch Break

Additional Information

VENUE

The INCoS & EIDWT2013 will take place in: Xian Tang Cheng Hotel).

Address: No. 229, Nan Duan, Hanguang Road, Xi'an, Shaanxi, China.

Zip: 710065

Tel: 029-85209966

Fax: 029-85209900

Xi'an Tang Cheng Hotel is a 4-star tourist hotel; its situated in the cultural district in the city. Its modern architectural exterior and Tang dynasty style decor forms a perfect contrast. The fully-equipped hotel with its professional management and hospitality will surely make your stay an integral part of your experience in Xi'an. The hotel's 379 rooms and suites are elegantly decorated, fully equipped, especially with an access to Internet. Restaurants with various sizes and styles offer you a large range of cuisine, including Sichuan, Canton, Yangzhou, and Shaanxi fare.

RECEPTION PARTY & BANQUET

A reception party will also be hold in Tang Cheng Hotel for all the participants. And a banquet will be hold in Defachang Dumplings, Bell Tower (We arranged the bus for all participants).

TRANSPORTATION

Located in the geographical centre of China, Xian is regarded as an important communications hub for the western and the eastern parts of China. The city has already developed a modern transportation network incorporating road, rail, and air travel. Xi'an's airport is located 50 km (about 31 miles) northwest of downtown Xi'an in xianyang, a neighboring city. Ranked as the fourth most frequented airport in China, Xianyang International Airport (XIY) is home to 68 domestic daily flights from almost every major Chinese destination. From Jiuzhaigou, Ningbo, Zhengzhou and Lianyungang, etc. to Xi'an are newly opened domestic routes. International airlines from Japan, Korea, Malaysia, Singapore and Thailand totally 10 Asian cities are well established services of XIY. In 2005, there opened 7 new international airline routs from Germany, France, Britain, America and Canada via transfers in Beijing. In 2006, other 8 international airline routs from Europe, America and Asian are opening via transfers in Shanghai. International air connections with Hong Kong and Macao are also available depending on the airline schedule. Presently, with a total of 25 international air routes, Xi'an has become the city with most international connections in Western China.

Xianyang International Airport Enquiry: 86-29-88798450

There is shuttle bus between the airport and Tangcheng Hotel with a 25 RMB admission fee per person.

Alternatively, at a price of 120-150RMB the journey can be made by taxi.

Here we will offer some information on shuttle bus in detail:

Line 4-between airport and Guomao Dasha in southern suburb, passes by Tangcheng Hotel and Orient Hotel.

For more information, you can visit this website: <http://www.xxia.com/>

MAP

