2015
ICCSNT

4th International Conference on Computer Science and Network Technology

PROGRAM

December 19-20, 2015
Heilongjiang University, HARBIN, CHINA

Heilongjiang University

◆IEEE

Session Overview

Friday, December 18, 2015		
09:00-18:00	Registration	Lobby of HanlinTianyue Hotel
Saturday, December 19, 2015		
08:30-09:00	Opening Ceremony	Hanlin Tianyue Hotel Sunshine Hall {11th floor}
09:00-09:40	Plenary Speech I Dr. Wei-Shinn (Jeff) Ku Session Chair: Jinbao Li	
09:40-09:50	Group photo	
09:50-10:10	Coffee break	
10:10-10:50	Plenary Speech II Dr. Qing Yang Session Chair: Yan Yang	
10:50-11:30	Plenary Speech III Dr. Yanmin Zhu Session Chair: Longjiang Guo	
11:30-12:30	Lunch-Hanlin Tianyue Hotel Cafeteria{2nd floor}	
13:30-15:00	Sessions	Meeting Room 1, Meeting Room 2 and VIP Room {10th floor}
15:00-15:30	Coffee break	{10th floor}
15:30-17:00	Sessions	Meeting Room 1, Meeting Room 2 and VIP Room {10th floor}
17:00-18:30	Dinner-Hanlin Tianyue Hotel Cafeteria{2nd floor}	
Sunday, December 20, 2015		
08:30-10:00	Sessions	Meeting Room 1, Meeting Room 2 and VIP Room {10th floor}
10:00-10:30	Coffee break	{10th floor}
10:30-12:00	Sessions	Meeting Room 1, Meeting Room 2 and VIP Room {10th floor}
12:00-13:00	Lunch-Hanlin Tianyue Hotel Cafeteria{2nd floor}	
13:00	Get together in the lobby of Hanlin Tianyue Hotel Tour in Harbin City and eat dinner out	

Meeting Room 1, Meeting Room 2 and VIP Room are both on the 10th floor.

Preface

Dear distinguished guests, ladies and gentlemen:

On the opening of 2015 4th International Conference on Computer Science and Network Technology (ICCSNT 2015), I would like to extend my warm welcome and deep gratitude to all of you here.

This conference is organized by Heilongjiang University. We wish to appreciate the co-sponsors: Dalian Jiaotong University, Northeast Normal University and Shaanxi Normal University and IEEE Harbin Section as the technical co-sponsor.

ICCSNT2015 is the forth forum for the presentation of new advances and research results in a wide variety of scientific areas with a common interest in improving Future Computer Science, Network Technology and Communication related techniques.

Altogether over 407 papers are submitted. We received the papers from Tsinghua University, Zhejiang University, Harbin Institute of Technology, Tongji University, Beijing University of Posts and Telecommunications, Shanghai Jiaotong University, Beijing University of Aeronautics and Astronautics as well as universities from abroad like Australia, USA, Russia, India, Bangladesh, etc in which 353 papers are accepted. The paper quality and English level compared with that of last year have improved greatly. As the annual conference series, the conference has now become an important event in the calendar, judged by the number of papers we received this year.

Harbin, the northern most provincial capital of China, situated at the center of northeast Asia, has always been the prime city of trade with Russia. It is best known for its appealing winter landscape, stimulating winter sports and various dazzling ice and snow art works, such as ice lanterns, snow sculptures and ice carvings, hope you will enjoy this trip.

I am confident that this conference will be successful. And I wish

all of you will get benefit from this event. Thank you!
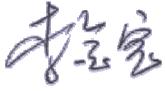
General Chair of ICCSNT 2015

Plenary Speeches

Plenary Speech I: Authentication of Spatial Queries in Both Vector Spaces and Spatial Networks

Session Chair: Jinbao Li
Biography:
Wei-Shinn (Jeff) Ku received his Ph.D. degree in computer science from the University of Southern California (USC) in 2007. He also obtained both the M.S. degree in computer science and the M.S. degree in electrical engineering from USC in 2003 and 2006, respectively. Wei-Shinn Ku is an associate professor of the Department of Computer Science and Software Engineering at Auburn University, USA. His research interests include data management systems, big data analytics, geographic information systems, and mobile computing. He has published more than 80 research papers in refereed international journals and conference proceedings. He is a senior member of the IEEE.

Abstract:
With the popularity of location-based services and the abundant usage of smart phones and GPS-enabled devices, the necessity of outsourcing spatial data has grown rapidly over the past few years. Meanwhile, the fast arising trend of Cloud storage and Cloud computing services has provided a flexible and cost-effective platform for hosting data from businesses and individuals, further enabling many location-based applications. Nevertheless, in this database outsourcing paradigm, the authentication of the query results at the client remains a challenging problem. In this talk, I will focus on the Outsourced Spatial Database (OSDB) model and introduce an efficient scheme, called VN-Auth, which allows a client to verify the correctness and completeness of the result set in both vector spaces and spatial networks. The approach is based on neighborhood information derived from the Voronoi diagram

of the underlying spatial dataset and can handle fundamental spatial query types, such as k nearest neighbor and range queries, as well as more advanced query types like reverse k nearest neighbor, aggregate nearest neighbor, and spatial skyline. We evaluated VN-Auth based on real-world datasets using mobile devices (Google Droid smart phones with Android OS) as query clients. Compared to the current state-of-the-art approaches (i.e., methods based on Merkle hash trees), our experiments show that VN-Auth produces significantly smaller verification objects and is more computationally efficient.

Plenary Speech II: Trust Assessment in Online Social Networks

Session Chair: Yan Yang
Biography:
Qing Yang, Ph.D, is a RightNow Technologies Assistant Professor in the Department of Computer Science at Montana State University. He received B.S. and M.S. degrees in Computer Science from Nankai University and Harbin Institute of Technology, China, in 2003 and 2005, respectively. He received his Ph.D degree in Computer Science from Auburn University in 2011. His research interests include Online Social Network, Trust Management, Vehicular Network, and Wireless Sensor Networks (WSNs). He has published papers in prestigious journals such as IEEE Transactions on Dependable and Secure Computing, IEEE Network Magazine and IEEE Communications Magazine, in prestigious conferences such as IEEE INFOCOM, CNS and SECON.

Abstract:
Assessing trust in online social networks (OSNs) is critical for many social network applications such as online marketing but challenging due to the difficulties of handling complex OSNs topology, in existing models such as subjective logic, and the lack of effective validation

methods. To address these challenges, we for the first time properly define trust propagation and combination in arbitrary OSN topologies by proposing 3VSL (Three-Valued Subjective Logic). The 3VSL distinguishes the posteriori and priori uncertainties existing in trust, and the difference between distorting and original opinions, thus be able to compute multi-hop trusts in arbitrary graphs. We theoretically proved the capability based on the Dirichlet distribution. Furthermore, an online survey system is implemented to collect interpersonal trust data and validate the correctness and accuracy of 3VSL in real world. Both experimental and numerical results show that 3VSL is accurate in computing interpersonal trust in OSNs.

Plenary Speech III: Crowdsensing for smart cities: challenges and opportunities
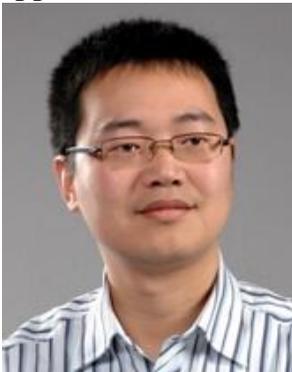
Session Chair: Longjiang Guo
Biography:
Yanmin Zhu is a professor in the Department of Computer Science and Engineering at Shanghai Jiao Tong University since 2009. Prior to joining Shanghai Jiao Tong University, he was a Research Associate with the Department of Computing at the Imperial College London. He received his PhD from the Department of Computer Science and Engineering at the Hong Kong University of Science and Technology (HKUST) in July 2007; and his bachelor from Xi'an Jiao Tong University (XJTU) in July 2002. His research interests include wireless sensor networks, vehicular ad hoc networks, Internet of things (IoT), crowd sensing and smartphone sensing. He severed TPC Co-Chairs of a few international conference, including IEEE ICPADS 2014, COLLABORATECOM 2015, etc.

Abstract:

With the rapid development of smart mobile devices and mobile Internet, crowd sensing has become increasingly popular in recent years as a new paradigm for gathering various sensing data from people's surroundings. The main advantages of crowd sensing, in contrast to traditional sensor networks, include lower deployment and maintenance cost, wider geographical coverage, richer sensing data, etc. Crowd sensing is particularly instrumental to various applications of smart cities. This talk first introduces the basics of crowd sensing, highlighting the main components of a crowd sensing system and the typical process of employing crowd sensing for building an application of smart cities. Then, the talk discusses the key challenges facing crowd sensing, e.g., strategic behaviors of data contributors, and sparseness of sensing data. Finally, the talk will present some of our recent research projects of crowd sensing, including incentive mechanisms, state estimate with sparse data, and map updating with GPS trajectories.

	Saturday, December 19, 2015 Afternoon	
	Session 1 (13:30-15:00) • Meeting Room 1 (10th floor) Topic 1.1: Computer Applications Track Chair: Yan Yang	
1	Noise Co: Smartphone-Based Noise Collection and Correction *Ammar Hussein Ali Al-Saloul, Juan Li, Yanmin Zhu* Shanghai Jiao Tong University	2563
2	Integrating Remote Sensing Resources for Developing an Effective Forecasting Model in the Royal Rainmaking Operation in Upper Northern Provinces of Thailand *Chakkrit Saengkaew, Kulthida Tuamsuk, Ratchaniwan Talumasawat* Khon Kaen University, Thailand	2454
3	X-Code+: A Compromised Coding Scheme with Smaller Rebuild Window and Load-balance *Mingzhu Deng, Lingyu Zhu, Nong Xiao, Zhiguang Chen, Fang Liu* National University of Defense Technology	2439
4	Concom Sorting Algorithm *Anand Agrawal, Sriram Bhyravarapu* Vignan University	2401
5	Transformation of Chinese Calligraphy Style Based on Feature Matrix Editing *Shi-Lei Zhang, Zhao-Kai Xie, Yue Qi* State Key Laboratory of Virtual Reality Technology and Systems, Beihang University, Beijing, China	2329
6	An Approach of Completing Biological Regulation Networks Modeled in Process Hitting Framework *Xinwei Chai, Bo Li* Beihang University	2158
	Coffee Break	

Saturday, December 19, 2015 Afternoon

Session 2 (13:30-15:00) • Meeting Room 2 (10th floor)
Topic 1.1: Computer Applications Track
Chair: Longjiang Guo

1	Service QoS Monitoring and Analyzing Based on Eucalyptus *Zefeng Gao, Xiaoyong Li* Beijing University of Posts and Telecommunications	2309
2	The Adjacency Matrix Calculation Based on the Acquisition Method Diagram *Mengwei Lai, Wen Zhou* Shanghai University	2298
3	The Status Quo and Realization of Waterfall Simulation based on Particle System *Lei SHI, Wenyong WANG* Teaching and research section of Information management, Jilin Agricultural University	2256
4	A Direct Data Fetch Technology Applied in Disaster-Tolerant Model of Distributed File System *Xigao Li, Lin Qian* State Grid Electric Power Research Institute	2166
5	Development of a Virtual Training System for Marine Engineers *Haosheng Shen, Jundong Zhang, Hong Zeng, Feng Jing* Dalian Maritime University	2160
Coffee Break		

Saturday, December 19, 2015 Afternoon		
Session 3 (13:30-15:00) • VIP Room (10th floor) Topic 2.4: Computer Control, Robotics, & Automation Track Chair: Syed Attiq Ur Rehman Gillani		
1	Motor bearing fault detection based on The second generation wavelet theory *Liyibg Yuan, Di Wu* Harbin University Of Science And Technology	2267
2	A Quantized-Data Based Resilient Consensus Algorithm *Yiming Wu, Jingyi Zheng, Xingxing He* Zhejiang University of Technology	2172
3	Coordination Control on the Electro-Hydraulic Braking System of Electric Vehicles *Syed Attiq Ur Rehman Gillani, Fenzhu Ji* Beihang University	2134
4	A Mathematical Model and Analysis of the Anti-angiogenic and Tumor Immunotherapy *Xiulan Shi, Xiongxiong He, Xianhua Ou* Zhejiang University of Technology	2349
5	QP-Based Smoother Self-Motion Planning and Control of Redundant Manipulators Using ZD Variant with Effective Verifications *Yunong Zhang, Liu He, Liangyu He, Xiaogang Yan, Xiaotian Yu* Sun Yat-sen University	2319
6	ZG Control for Nonlinear System 2-Output Tracking with GD Used Additionally Once More *Mingzhi Mao, Wan Li, Binbin Qiu, Hongzhou Tan, Yunong Zhang* Sun Yat-sen University	2315
Coffee Break		

Saturday, December 19, 2015 Afternoon

Session 4 (15:30-17:00) • Meeting Room 1 (10th floor)
Topic 1.4: Intelligent Systems Track
Chair: Yong Liu

1	A Novel Approach of Low-Light Image Used for Face Recognition *Dafeng Ren, Laijun Sun, Hui Ma, Tingchun Yan* Heilongjiang University	2569
2	A New Markov Model of Reliability Assurance and Failure Prediction Using Network Technology *Pang Jihong* Wenzhou University	2530
3	An Improved Collaborative Filtering Recommendation Algorithm Based On Case-Based Reasoning *Lei Xing, Cunlu Xu, Wei Wang, Zefu Kang* Lanzhou university	2410
4	Struck based Infrared Flying Bird Tracking Experiments *Hong Zheng, Ying Huang, Haibin Ling, Erik Blasch, Hao Yang* Beihang University	2362
5	A Method and System to Artificially Pollinate Flowers Using Unmanned Aerial Vehicles *Rohan de Silva, Umapathy Venugopal* CQUniversity Sydeny Campus	2168
6	A Comprehensive Research on Xss Scripting Attacks on Different Domains and their Verticals *Sulaiman Sulaiman al Azmi, Ahmad Ahmad khan* Majmaah University	2154

	Saturday, December 19, 2015 Afternoon	
	Session 5 (15:30-17:00) • Meeting Room 2 (10th floor) Topic 2.3: Multimedia & Signal Processing Track Chair: Sadeghi Mostafa	
1	Spectral-Spatial Information Extraction and Classification of Mangrove Species Using Joint Sparse Representation *Jie Geng, Jianchao Fan, Xiu Su, Xiaorui Ma, Hongyu Wang* Dalian University of Technology	2249
2	Constraint Split Bregman Method Combined with Total Variation for Structural Decomposition of Breast DCE-MRI *Shujuan Li, Hui Liu, Dongmei Guo, Yuanjie Zheng, James C. Gee, Zuowei Zhao* DaLian university of technology	2244
3	A virtual 3D Object Hiding Scheme Using Logistic Mapping Chaos Sequence *Gao-Yong Li, Hyun-Soo Jung, Seok-Young Yang, Xiao-Wei Li, Seok-Tae Kim* Pukyong National University	2233
4	Applying fuzzy morphologic operators in Image Processing for Defect Detection on Steel Sheets *Sadeghi Mostafa, Nasri Saeed* Islamic Azad University, Zavareh, Iran	2565
5	Construction of Information Fusion System Based on Cloud Computing *Xiangdong Hao, Fei Li, Xiaoguang Gao* Shenyang Aircraft Design Institute	2471

Saturday, December 19, 2015 Afternoon

Session 6 (15:30-17:00) • VIP Room (10th floor)
Topic 2.2: Communications & Networking Track
Chair: Jinghua Zhu

1	Relays Selection with Power Allocation in Relay Networks *Hua-An Zhao* Kumamoto University	2560
2	Analysis on Node-by-Node Delay Performance of CCSDS File Delivery Protocol Based on the Stochastic Network Calculus *Kaixi Zhou, Yue Gong, Xiaoqiang Di* Changchun University of Science and Technology	2510
3	New Data Integrity Scheme Employing Wavelet-Based Digital Watermarking in Cloud Environment *Salah H. Abbdal, Hai Jin, Ali A. Yassin, Zaid Ameen Abduljabbar, Mohammed Abdulridha Hussain, Zaid Alaa Hussien, Deqing Zou* Huazhong University of Science and Technology	2507
4	Stochastic Performance Analysis for LEO Inter-Satellite Link Based on Finite-State Markov Chain Modeling *Min Wang, Jinqing Li, Yuming Jiang, Xiaoqiang Di* Changchun University of Science and Technology	2505
5	The Diagnosis of Wired Network Malfunctions Based on Big Data and Traffic Prediction: An Overview *Yuan Gao, Hong Ao, Kang Wang, Weigui Zhou, Yi Li* Tsinghua University	2482
6	Scheme for Ensuring Data Security on Cloud Data Storage in a Semi-trusted Third Party Auditor *Zaid Alaa Hussien, Hai Jin, Zaid Ameen Abduljabb, Mohammed Abdulridha Hussain, Salah H. Abbdal, Deqing Zou* Huazhong University of Science and Technology	2480

| 7 | Hierarchical Modulation Symbol Sharing Scheme for Multiuser Cellular Networks
Jinsoo Ahn, Ronny Yongho Kim
Yonsei University | 2301 |

Sunday, December 20, 2015 Morning

Session 7 (08:30-10:00) • Meeting Room 1 (10th floor)
Topic 2.2: Communications & Networking Track
Chair: S.K. Setua

1	The Research on MMSE Equalization Algorithm for HFDL Signal *ChangKai Tong, Mu Li, ChengJun Li* Unit 91635 of PLA	2436
2	Nonlinear Feature Extraction of Power Amplifiers in Multipath *Jian Chen, Tiandong Duan* National Digital Switching System Engineering & Technological R&D Center	2422
3	Access Control Model Based on Role and Attribute and Its Applications on Space-Ground Integration Networks *Hui Qi, Hongxin Ma, Jinqing Li, Xiaoqiang Di* Changchun University of Science and Technology	2389
4	Workload-Based Prediction of CPU Temperature and Usage for Small-Scale Distributed Systems *Raju Ahmed Shetu, Tarik Toha, Mohammad Mosiur Rahm, Novia Nurain, A. B. M. Alim Al Isl* Bangladesh University of Engineering and Technology	2359
5	Early Detection of Earthquake Using Satellite Based Quantum Computing *Akhter Al Amin, Mahmudul Hasan, Kazi Sinthia Kabir, Tanzila Choudhury, A. B. M. Alim Al Islam* Bangladesh University of Engineering and Technology	2354
6	Smart Fluid Agent Based Intrusion Detecion System *Ankita Saha, S.K. Setua* Ixia Technologies Pvt. Ltd	2344
Coffee Break		

	Sunday, December 20, 2015 Morning	
	Session 8 (08:30-10:00) • Meeting Room 2 (10th floor) Topic 2.2: Communications & Networking Track Chair: Zhaogong Zhang	
1	Two Effective Methods to Detect Mobile Malware *Xi Xiao, Peng Fu, Xianni Xiao, Yong Jiang, Qing Li, Runiu Lu* Graduate School at Shenzhen, Tsinghua University	2320
2	Spider: A Non-blocking Optical Router for Multicasting Communication in ONoC *Lei Huang, Huaxi Gu, Bowen Zhang, Xuesong Wang, Kun Wang* State Key Laboratory of Integrated Services Networks, Xidian University	2474
3	Mobile E-Health Network With Chosen Ciphertext Secure Spatial Encryption *Danfeng Xia, Jianwei Liu, Weiran Liu, Qianhong Wu* Beihang University	2229
4	Network Security Situation Evaluation Method Based on Attack Intention Recognition *Kun Wang, Hui Qiu, Haopu Yang, Di Hou* Information Engineering University	2205
5	Experimental Demonstration of All-optical Tunable Thresholder for Self-switching and Thresholding *Huatao Zhu, Rong Wang, Tao Pu, Tao Fang, Peng Xiang, Jilin Zheng, Huihui Zhu* PLA University of Science and Technology	2193

6	A Secured Scheme for Geographical Distance Computation over Encrypted Cloud Data *Zaid Ameen Abduljabb, Hai Jin, Ayad Ibrahim, Aqeel Noori, Mohammed Abdulridha Hussain, Zaid Alaa Hussien, Deqing Zou, Salah H. Abbdal* Huazhong University of Science and Technology	2460
Coffee Break		

	Sunday, December 20, 2015 Morning	
	Session 9 (08:30-10:00) • VIP Room (10th floor) Topic 2.2: Communications & Networking Track Chair: Qianqian Ren	
1	Compressive Sensing for Uplink Cloud Radio Access Network with Limited Backhaul Capacity *Yingjie Wang, Zhiyong Chen, Manyuan Shen* Shanghai Jiao Tong University	2179
2	Improve the Influence of Sybil Nodes in P2P Botnets *Hui Liu, Tianzuo Wang, Fengtao Xiao, Qiang Lu* Nudt	2177
3	Security Enhancement on an Authentication Scheme for Privacy Preservation in Ubiquitous Healthcare System *Kefei Mao, Jie Chen, Jianwei Liu, Mengmeng Wang* Beihang University	2175
4	Topology Structure Design and Performance Analysis on Distributed Satellite Cluster Networks *Feihong Dong, Xiaoqiang Li, Qing Yao, Yuanzhi He, Jingchao Wang* College of Communications Engineering, PLA University of Science and Technology	2133
5	Remote Monitoring System for Distributed Photovoltaic Based on ZigBee *Yaling Cheng, Xiaoping Zou, Guangtao Zhuang, Gongqing Teng, Weiwei Qu* Beijing Information Science and Technology University	2105
6	Enabling less-Infrastructure Road Communication Networks for VANETs *Safi Shiha, Mohamed Hamdy* Ain Shams University	2342

7	Virtual Optical Network Embedding with SDN Architecture Based on Memetic Algorithm *Jiachen Ma, Xuanzhang Liu, Kun Wang, Liangkai Liu, Huaxi Gu* State Key Laboratory of ISN	2328
Coffee Break		

Sunday, December 20, 2015 Morning		
Session 10 (10:30-12:00) • Meeting Room 1 (10th floor) Topic 2.3: Multimedia & Signal Processing Track Chair: Yong Liu		
1	An Improved Perceptual KLT Approach For Speech Enhancement *Yongqiang Zhang, Liming Shi, Yi Zhou* School of Communication and Information Engineering Chongqing University of Posts and Telecommunications	2420
2	Face Recognition with Single Training Sample Based on Fuzzy Decision and MSD *Xiaojie Wang, Linhua Ding, Yingkui Li* School of Information Linyi University	2416
3	Background Subtraction Based on Non-Parametric Model *Ting Zhu, Peifeng Zeng* Donghua University	2330
4	Scene Classification Based on Knowledge Sharing and Latent Structural Constraints *Yuhua Fan* Tsinghua University	2297
5	Three-dimensional Short-range Microwave Holographic Imaging Algorithm and Imaging System Scheme *Baoqiang Lao, Tao An, Yun Gong* Shanghai Astronomical Observatory, Chinese Academy of Sciences	2293
6	Research on Image Fusion Algorithm Based on Compressed Sensing Theory *Liying Yuan, Wenyu Zhao* Harbin University of Science and Technology	2259

Sunday, December 20, 2015 Morning		
Session 11 (10:30-12:00) • Meeting Room 2 (10th floor) Topic 2.1: Computer Hardware, VLSI, & Embedded Systems Track Chair: Tsung Lee		
1	Analysis and Synthesis Techniques of Router Circuits *Tsung Lee, Yao-Yi Huang* National Sun Yat-Sen University	2350
2	10-Bit TFT-LCD Column Driver IC with DAC-Embedded Op-amp *Yen-Chung Huang, Chih-Wen Lu, Yo-Sheng Lin* National Chi Nan University	2201
3	A Novel Array Architecture and Routing Structure for Massive-MIMO Detection in Coarse-Grained Reconfigurable Architecture Platform *Dongming Zhang, Weiqi Ge, Xing Ruan, Yu Gong, Bo Liu* Research Institute of Application Specific Integrated Circuit, Southeast University	2188
4	A Configurable Management Strategy for Parallel Access of Coarse-Grained Reconfigurable Architecture for Radar Processing *xiaotong Wang, weiqi Ge, yu Gong, bo Liu* Research Institute of Application Specific Integrated Circuit, Southeast University	2171
5	Optimization of Coarse-Grained Reconfigurable Processor Based on Dynamic Decompression of Configuration Contexts *Cheng Ji, Dongming Zhang, Yu Gong, Bo Liu* Research Institute of Application Specific Integrated Circuit	2161
6	Event-based Utilization Control for Distributed Real-time Embedded Systems *Ling Li, Guangrong Zeng, Linghao Li, Xingye Qiu* System Engineering Research Institute	2120

Sunday, December 20, 2015 Morning

Session 12 (10:30-12:00) • VIP Room (10th floor)
Topic 1.2: Software Engineering Track
Topic 1.3 Data Mining & Data Engineering Track
Chair: Qianqian Ren

1	Model-based Software Design Generation Techniques *Tsung Lee, Yao-Yi Huang* National Sun Yat-Sen University	2375
2	A New Mathematical Concept of Programming into Graphs *Igor Velbitskiy* Glushkov's Fund	2242
3	Research on the Human-Computer Interaction Mode Designed for Elderly Users *Wei SHEN, Xiaolei ZHOU* cueb	2101
4	Detecting Temporal Community from Dynamic Heterogeneous Networks *Qi Wu, Fu-cai Chen, Rui-yang Huang* National Digital Switching System Engineering and Technological R&D Center	2493
5	Exploiting User's Social Network: A Novel Method to Recommend Most Attractive and Targeted Service *Xiu Li, Xinwei Yan, Lulu Xie, Chang Men* Tsinghua University	2333
6	Examination Data Analysis for Open Education Teaching Reform using Wilcoxon Rank Sum Test *Fang Liu, Ying Wang, Luan-Qiao Zhang, Fu-Wan Sun, Shao-Gang Zhang, Wilton W.T. Fok, Tam Vincent, Jiaqu Yi* The Open University of China	2294

7	A Feature-Adjusted Naïve Bayes Agorithm *Shize Kang, Hong Ma, Ruiyang Huang* National Digital Switching System Engineering & Technological R&D Center	2290
8	The Solution for Performance Improvement of Electic Distribution Network Line Loss Based on Hadoop Big Data Technology *Lihua Sun, Mu Hu, Qingqiang Meng, Feng Lin, Yakang Qian, Yunbo She, Zheng Ma, Xuan Pei, Shuting Song* Nanjing NARI Group Corporation	2199

	Saturday, December 19, 2015 Afternoon	
Poster Session 1(13:30-17:00):		
1	Study and Application of Data Mining and NARX Neural Networks in Load Forecasting *Chunshan Yang, Xiaofeng Li* Northeast Agricultural University	2550
2	High Obfuscation Plagiarism Detection Using Multi-Feature Fusion Based on Logical Regression Model *Leilei Kong, Zhimao Lu, Haoliang Qi, Zhongyuan Han* Harbin Engineering University	2549
3	Research on Fixed Traffic Bottleneck of K-means Clustering based on Hadoop *Weiwei Gao, Xiaofeng Li, Dong Li* Heilongjiang International University	2548
4	A Model on Dynamical Anonymous Area Estimation Based on Bayesian Network *Zhaohui Cai, Jianpei Zhang, Jing Yang* Harbin Engineering University	2543
5	Weighted Feature Dimensions According to Fisher's Linear Discriminant Rate and Its Application on Protein Sub-cellular Localization *Wenjia Li, Shunfang Wang, Dongshu Xu* School of Information Science and Engineering, Yunnan University	2521
6	Research on Prediction of Protein Sub-cellular Location Based on KLDA with Combined Kernel Function *Bing Nie, Shunfang Wang, Dongshu Xu* School of Information Science and Engineering, Yunnan University	2520
7	Research on Streaming Video Information Service Profit Model Based on the Value Chain *Delin Hou, Jing Chen* Wuhan Textile University	2518
8	The Digital Simulation of End-To-End Imaging Chain in Optical Remote Sensing System Based on MTF Models	2517

	Fan Bu, Yuehong Qiu, Dalei Yao, Baotan Jiang Xi'an Institute of Optics and Precision Mechanics, CAS	
9	Technical Analysis of Three Stock Oscillators: Testing MACD, RSI and KDJ Rules in SH & SZ Stock Markets *Mingyuan Wu, Xiaotian Diao* Department of Computer Science and Engineering	2502
10	The Design of Warehouse Security Monitoring System Based on Collaborative Linkage of Multi-sensor *Yan Chen, Shuai Zhao, Bo Cheng, Dalin Zhang* Beijing University of Posts and Telecommunications	2494
11	Adaptive Task Scheduling in Storm *Jiahua Fan, Haopeng Chen, Fei Hu* School of Electronic Information and Electrical Engineering,Shanghai Jiao Tong University	2491
12	Application and Research of Distributed Crawler Technology in the Field of Finance *Ke Zhang* Department of Computer Science and Engineering Shanghai Jiao Tong University	2490
13	Mitigate I/O Access Pattern Divergence With Heterogeneous Architecture In HDFS *HuaShen Shi* Shanghai Jiao Tong University	2489
14	Geometry Parameter Optimization Method for Automobile Energy-absorbing Box *Qing Zhang, Lasheng Zhao, Qiang Zhang, Xiaopeng Wei* Dalian University	2486
15	Research of Remote Video Transmission Adaptive Control Technology Based on Virtual Desktop *linying zhao, chunhua gu* East China University of Science and Technology	2479
16	Service Composition Model Optimization Strategy Based on Execution Log *Qiang Sun, Bing-xian Ma* University of Jinan	2463
17	Design and Implementation of Automatic Defensive Websites Tamper-Resistant based on OpenStack Cloud System *Jiuyuan Huo, Qu Hong*	2461

	Lanzhou Jiaotong University	
18	Study of Scheduling Algorithm Based on T-LET Planes for Multiprocessor Real-Time Systems *Zhanrong Chen, Longxin Lin, Zhenyu He* Jinan University	2455
19	Accommodate Apache YARN to Long-lived Services *Huiyi Li, Ruonan Rao* Shanghai Jiaotong University	2440
20	Improved Hybrid Genetic Algorithm for Job Shop Problem *Ming Huang, GuoLi Cheng, Xu Liang* Dalian Jiaotong University	2431
21	Flexible Job Shop Scheduling Based on Multi-population Genetic-Variable Neighborhood Search Algorithm *Xu Liang, Weiping Sun, Ming Huang* Software Institute	2430
22	Collaborative Filtering Recommendation Algorithm based on both User and Item *Yu Peng* Sichuan Top Information technology Vocational Institute	2425
23	Three-dimensional Image Visualization Methods for Hyperthemia Treatment Planning System *Zihan Zhuo, Heng Wang, Zuhe Wu, Weiming Zhai, Jintian Tang* National Computer Network Emergency Response Technical Team/Coordination Center of China	2409
24	Empirical Research on Class Environment Evaluation *Sui Huang, Donghua Zhan* Jinan University	2397
25	Service Discovery Method based on Two-step Clustering *Jiajing He, Jindong Wang, Na Wang, Kan Niu* Zhengzhou Institute of Information Science and Technology	2390
26	Data Mining to Support Home Energy Management Strategy with Interaction Between Grid and Users *Yi Sun, Jing Nan, Bin Li, Bing Qi, Jing Zhang, Songsong Chen* North China Electric Power University	2386

27	Design and Construction of Sunshine Kitchen System based on Cloud Computing and Video Data Analysis *Tiantian Liu, Xiaoqiang Wu, Yaohua Lian* Cloud Computing Center Chinese Academy of Sciences	2385
28	PCA-IBP Model Application in Medium and Long-term Runoff Forecast *Daidi Hu, Yuan Sang, Mingtao Ge* SIAS International University	2384
29	Plan of Power Utilization of Time-of-use Power Price Through Smart Grid User Interface *li Bin, qian Wu, bing Qi, jing Zhang, songsong Chen* North China Electric Power University	2380
30	Research on Software Quality Evaluation for Application of Smart City *Zhenyu LIU, Lizhi CAI, Yun HU* Shanghai Key Laboratory of Computer Software Evaluating and Testing	2378
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149	A SDN-based Deployment Framework for Computer Network Defense Policy *Jinghua Gao, Chunhe Xia, Shuguang Wang, Huajun Zhang* School of Computer Science, Beihang University	2514
150	Vulnerability Evaluation Based on CVSS and Environmental Information Statistics *Shuguang Wang, Chunhe Xia, Jinghua Gao, QIong Jia* Beijing Key Laboratory of Network Technology School of Computer Science	2511
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Registration: December 18, 2015 (Friday)

Harbin Hanlin Tianyue Hotel Hall(1st floor)
哈尔滨翰林天悦大酒店一楼大厅

Location: Harbin HanlinTianyue Hotel, No. 52 College Road, Nangang District, Harbin, Heilongjiang, China.
地点：黑龙江省哈尔滨市南岗区学府路52号哈尔滨翰林天悦大酒店

From Harbin railway station to Hanlin Tianyue Hotel
The distance from Harbin railway station to the destination is about 8kilometers.
➢ By Bus
Route: Take the No.107 (94, 11, 88) bus to Heilongjiang University Station. (￥1) (See Map 1).
➢ By taxi
(about￥17)

From Harbin Taiping International Airport to Hanlin Tianyue Hotel
The distance from Harbin Taiping Airport to the destination is about 36 kilometers.
➢ By airport bus
Route: Take the airport bus line 2 to Ha Xi Shang Sha Station then walk 1.3 kilometers to Hanlin Tianyue Hotel (See Map 2).
➢ By taxi
(about ￥80)

Map 1: From Harbin railway station to Hanlin Tianyue Hotel

Map 2: From Harbin Taiping Airport to HanlinTianyue Hotel

Ha Xi Shang Sha Station
哈西商厦站

Harbin Taiping Airport

乘坐机场大巴2号线
车程约1小时38分钟

Conference venue
HanlinTianyue Hotel
翰林天悦大酒店

Ha Xi Shang Sha Station
哈西商厦站