CONFERENCE PROGRAM

Second International Conference on Communications and Networking in China (CHINACOM 2007)

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GREETINGS FROM THE GENERAL CHAIRS

On behalf of the organizing committee, we would like to welcome you to the 2nd International Conference on Communications and Networking in China (CHINACOM 2007), to be held in Shanghai on August 22-24, 2007. CHINACOM 2007 is being positioned as a premier international annual conference for the presentation of original contributions and fundamental advances in the field of Communications, Networks, and Internet Applications. It will showcase a strong technical program consisting of 6 Symposia, special sessions. CHINACOM 2007 will also feature two prominent invited keynote speakers: Dr. David G. Belanger, AT&T Labs Research V.P. and Chief Scientist of Information & Software Systems, and Dr. Paulo T. de Sousa, Head of Sector, Internet of the Future, in the Directorate-General Information Society, European Commission. We are very grateful to the sponsorship of Create-Net, ICST, and Shanghai Jiao Tong University, and technical support of IEEE, IEEE CAS, IEEE MTT-S, IEEE CVTC, Beijing University of Posts and Telecommunications, and Zhejiang University.

We would like to express our sincere thanks and appreciation to all the organizing committee members, the technical program chairs, symposium chairs, the technical program committee members and reviewers. We would also like to thanks all the authors for submitting their papers to the conference. All accepted and presented papers will be included in the CHINACOM 2007 Conference Proceedings. They will be made available in IEEE Xplore Digital Library and be indexed by Engineering Information (EI). Selected papers from the conference will be considered for possible publication in several international journals. The conference venue is the ETON HOTEL SHANGHAI, an International deluxe 5-Star business hotel strategically located in the heart of Lujiazui Finance and Trade Zone in Pudong. We wish to see you all in Shanghai to experience the wonderful CHINACOM 2007 and to enjoy the spectacular city.

General Chairs, CHINACOM 2007

Wenjun Zhang
Vice President
Shanghai Jiao Tong University

Xuemin (Sherman) Shen
Professor and University Research Chair
University of Waterloo, Canada

GREETINGS FROM THE TECHNICAL PROGRAMMING COMMITTEE CHAIRS

CHINACOM will be organised second time in 2007. The success of the event is proven by all together 670 submissions to six symposia. Out of these submissions 253 were selected for presentation in different symposia and overall acceptance ratio is 37.7%.

CHINACOM is a meeting ground for leading experts from industry, academia and regulatory bodies. All have their share in making the event one of high quality. At the same time, CHINACOM also offers a wonderful opportunity for young researchers to present and participate in an international forum. A number of measures will be taken in the planning process in order to further increase the exchange of information between specialists and in order to ensure the diversity at the event.

The programme for CHINACOM 2007 will be built from elements that allow participants from academia, industry and other types of organisations to select tracks that interest them most. Programme elements include, among others, invited talks of high quality and panel discussions based on controversial topics. The exchange of information will be stressed in the presentation of key research activities in different parts of the world. Also the latest regulatory achievements will be discussed in technical sessions. The keynote speakers include David G. Belanger from AT&T Labs and Paulo T. de Sousa from European Commission. Hence, participants can expect to hear the latest advances both from industry and European research perspectives.

The event is organised in Shanghai, which is a modern metropolitan city and an ideal location for a major international event. The TPC Chairs welcome you all to CHINACOM 2007. Your participance will make the event a memorable experience. See you all in Shanghai!

Andreas F. Molisch
Mitsubishi Electric Research Labs and Lund University

Matti Latva-aho
University of Oulu

Xiaodong Wang
Columbia University

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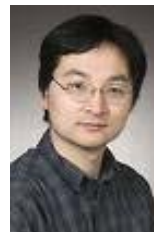*Memorial University of
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*Optical Communications and
Networking Symposium:*

Indra Widjaja
Bell Labs, Alcatel-Lucent
Yikai Su
Shanghai Jiao Tong University
Pin-Han Ho
University of Waterloo

Wenjun Zhang

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Matti Latva-aho
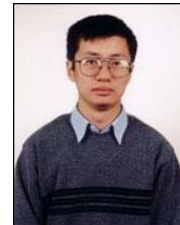
Xiaodong Wang

Zhihua Guo

Jun Zheng

Cheng Li

Indra Widjaja

Yikai Su

Pin-Han Ho

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and Networking Symposium:*

Petri Mahonen
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Chonggang Wang
University of Arkansas
Wenye Wang
North Carolina State University

Advances in Internet Symposium:

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University College London
Jiannong Cao
Hong Kong Polytechnic University
Junzhong Gu
East China Normal University
Minglu Li
Shanghai Jiao Tong University

*Comm. Theory & Signal Processing
for Communications Symposium:*

Thomas Kaiser
Leibniz University of Hannover
Zongxin Wang
Fudan University
Mischa Dohler
France Telecom

*Networking Security and
Information Assurance Symposium:*

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Shanghai Jiao Tong University
Peter Stavroulakis
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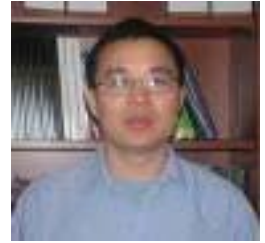
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Shanghai Jiao Tong University
Shenghong Li
Shanghai Jiao Tong University
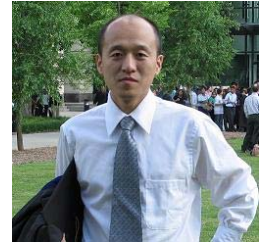**Xinbing Wang**
Shanghai Jiao Tong University

Marina Petrova

Bin Wang

Chunsheng Xin

Xiaokang Yang

Shenghong Li

Xinbing Wang

Program of ChinaCom 2007 on 22 Aug.

8:00	Registration					
	Eton Grand Ballroom					
9:30-10:00	**Welcome and Opening Remarks** **Prof. Wenjun Zhang and Prof. Andreas F. Molisch**					
10:00-11:00	**Keynote Address I** **Directions for Communications Research, Dr. David Belanger**					
11:00-11:30	Coffee Break					
11:30-12:30	**Keynote Address II** **EU and the Internet of the Future, Dr. Paulo T. de Sousa**					
12:30-14:30	Lunch Break					
Session Rooms	**Eton Ballroom I**	**Eton Ballroom II**	**Maple Room**	**Cedar Room**	**Ebony Room**	**Function Room**
14:30-16:00	**WCN-01:** **Wireless Sensor Networks I – Localization Algorithms**	**WC-07:** **Wireless Local and Personal Area Networks**	**WCN-18:** **Physical Communications I – MIMO and OFDM**	**FCN-01:** **Detection and Measurement**	**IN-01:** **Middleware, Services & Interfaces - I**	**SP-01:** **MIMO**
16:00-16:30	Coffee Break					
16:30-18:00	**WCN-02:** **Wireless Sensor Network II – Routing Protocols**	**WCN-08:** **Applications**	**OCN-01:** **Traffic Grooming and Traffic Engineering**	**NS-01:** **Security of Wireless Sensor and Ad Hoc Networks**	**IN-02:** **Middleware, Service& Interfaces - II**	**SP-02:** **OFDM, Multicarrier and Multiuser Systems**

WCN: Wireless Communications and Networking Symposium   **OCN**: Optical Communications and Networking Symposium
FCN: Frontiers on Communications and Networking Symposium   **NS**: Networking Security and Information Assurance Symposium
IN: Advance in Internet Symposium   **SP**: Communication Theory and Signal Processing for Communications Symposium

Program of ChinaCom 2007 on 23 Aug.

8:00	Registration						
Session Rooms	**Eton Ballroom I**	**Eton Ballroom II**	**Maple Room**	**Cedar Room**	**Ebony Room**	**Function Room**	**Laurel Room**
9:00-10:30	**WCN-03: Wireless Sensor Networks III – Data Aggreg., Que. and Proc.**	**WCN-09: Wireless Mesh Networks I – Quality of Service**	**WCN-19: Physical Communications II – MIMO and OFDM**	**FCN-02: Resource Allocation**	**NS-02: Security Engineering**	**SP-03: Receiver Detection Technology**	**SS-1: Digital Broadcasting and Mobile Convergence**
10:30-11:00	Coffee Break						
11:00-12:30	**WC-04: Wireless Sensor Networks IV – MAC Protocols**	**WCN-10: Wireless Mesh Networks II – Analysis and Modeling**	**OCN-02: Routing and Wavelength Assignment**	**FCN-03: P2P Networks**	**NS-03: Security Protocols**	**IN-03: Security & Compensation**	**SS-2: Digital Broadcasting and Mobile Convergence**
12:30-14:30	Lunch Break						
14:30-16:00	**WC-05: Wireless Sensor Networks V – Topology Control**	**WCN-14: Cellular Networks I – Admission Control**	**WCN-20: Physical Communications III – MIMO and OFDM**	**FCN-04: Routing and Relaying Protocols**	**NS-04: Digital Watermarking**	**SP-04: Diversity and Cooperation**	**SS-3: Ambient Networks**
16:00-16:30	Coffee Break						
16:30-18:00	**WC-06: Wireless Sensor Networks VI – Miscellaneousness**	**WCN-15: Cellular Networks II – Scheduling Algorithms**	**OCN-03: Optical Network Protection and Restoration**	**FCN-05: Admission and Congestion Control**	**NS-05: Security of Ad Hoc Networks**	**SP-05: Error Control Coding and ARQ**	**SS-4: Ambient Networks**
19:00-21:00	Awarding and Banquet (Eton Grand Ballroom) Prof. Sherman Shen and Prof. Matti Latva-aho						

WCN: Wireless Communications and Networking Symposium **OCN**: Optical Communications and Networking Symposium **SS**: Special Session
FCN: Frontiers on Communications and Networking Symposium **NS**: Networking Security and Information Assurance Symposium
IN: Advance in Internet Symposium **SP**: Communication Theory and Signal Processing for Communications Symposium

Program of ChinaCom 2007 on 24 Aug.

8:00	Registration					
Session Rooms	**Eton Ballroom I**	**Eton Ballroom II**	**Maple Room**	**Cedar Room**	**Ebony Room**	**Function Room**
9:00-10:30	**WCN-11: Ad Hoc Networks I – Routing Protocols**	**WC-16: Cellular Networks III – Handover and Mobile IP**	**FCN-06: Cognitive Communications and Cooperative Diversity**	**IN-04: Congestion Control**	**NS-06: Security in Large Scale Environments**	**SP-06: Channel Estimation and Modeling**
10:30-11:00	Coffee Break					
11:00-12:30	**WCN-12: Ad Hoc Networks II – Routing Protocols**	**WCN-17: Cellular Networks IV – Performance Analysis and Improvement**	**OCN-04: System Performance of Optical Networks**	**IN-05: Routing & Traffic Engineering**	**NS-07: Security Attacks and Vulnerability Analysis - I**	**SP-07: Signal Processing for UWB**
12:30-14:30	Lunch Break					
14:30-16:00	**WCN-13: Ad Hoc Networks III– Quality of Service**	**WCN-21: Physical Communications IV – Miscellaneousness**	**FCN-07: Topics in Communications and Networking I**	**IN-06: Peer-to-Peer Networks**	**NS-08: Security Attacks and Vulnerability Analysis - II**	**SP-08: Speech, Video and Image Signal Processing**
16:00-16:30	Coffee Break					
16:30-18:00	**WCN-23: Ultra Wideband**	**WCN-22: Physical Communications V – Miscellaneousness**	**FCN-08: Topics in Communications and Networking II**	**IN-07: Quality of Service**	**NS-09: Distributed Security Systems**	**SP-09: Advance Signal Processing Algorithms**

WCN: Wireless Communications and Networking Symposium   **OCN**: Optical Communications and Networking Symposium
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KEYNOTE ADDRESS I

David G. Belanger
AT&T Labs Chief Scientist
Information & Software Systems Research V.P.
AT&T Labs

Date and Time: Wed. 22ⁿᵈ Aug., 10:00-11:00

Directions for Communications Research

ABSTRACT

This keynote talk focuses on some of the leading trends in Communication Technology. These include a number of focused trends as exemplified by specific projects that AT&T Shannon Labs is currently pursuing. These include working crossing the areas of: IP & Voice Services Research, the Internet & Network Systems Research, and Information and Software Systems Research. It also includes a discussion of a few of the overarching trends that we see changing the landscape of communications network, service, and operations technology over the next several years.

BIOGRAPHY

David Belanger is currently the AT&T Labs Chief Scientist, and the Vice President of Information & Software Systems Research at AT&T Labs in Florham Park, NJ. As Chief Scientist, he is responsible to the AT&T Labs CEO for: identifying pre-product technology important to the future of AT&T, evaluating technology, building alignment within AT&T on technology directions, and serving as AT&T liaison to external technical communities, specifically universities, government agencies and industrial laboratories. The Information & Software Systems Research Lab conducts research in: large scale and real time information mining related to operations of a (communications) service business; interactive, information visualization; scaleable, reliable software systems; and new, information based, communications services. It is also responsible for delivery and operations of very large scale (e.g. >300TB) near real time service management capabilities to AT&T and its customers.

Dave joined AT&T Bell Laboratories in 1979 working in the area of database support for economic analysis for product lifecycles. This was followed by research on large scale data and information systems, and program generation for data manipulation systems. He has subsequently led research efforts in software systems and engineering, and information mining, and visualization. Prior to joining AT&T, Dave was on the Mathematics and Computer Science Faculty at University of South Alabama, a consultant for a variety of organizations, and co-founder/VP of Gulf Coast Data Systems (a computing services company). He received his B. S. from Union College (NY) in Mathematics, and an M. S. and Ph.D., also in Mathematics, from Case Western Reserve University.

In 1998, Dave was awarded the AT&T Science and Technology Medal for his contributions in very large scale information mining technology. In 2006, he was named an AT&T Fellow for "lifetime contributions in software, software tools, and information mining".

KEYNOTE ADDRESS II

Paulo T. de Sousa
Head of Sector, Internet of the Future
Directorate-General Information Society
European Commission

Date and Time: Wed. 22nd Aug., 11:30-12:30

EU and the Internet of the Future

ABSTRACT

The Future Internet will emerge from advances in a range of critical technologies, converging and evolving in parallel, and from market, business and societal evolutions. These developments are driven by a growing and changing demand for user control of content and services, increasing networking of "things", and convergence at networks, devices and services levels.

The European Commission is undertaking under its 7th Framework Programme for R&D activities to enable the European economy and society to stay well positioned to master, shape and benefit from the Future Internet. Various paths have to be explored including in particular network and service convergence, software and security solutions that will bring significant improvements to the scalability, flexibility, security, dependability and robustness of the Internet while increasing its performance and functionalities.

The research into the Future Internet focuses on overcoming the expected long term limitations of current Internet capabilities, architecture and protocols through work of exploratory nature to address how various classes of new requirements constrain the foreseeable evolution of the Internet and identify corresponding long term solutions.

The talk will address this evolution of the Internet and how it is being studied by our research programmes.

BIOGRAPHY

Previously he headed the sector Mobile and Wireless beyond 3G, the largest strategic objective of the IST Programme, funding leading research on future telecommunications systems.

He coordinated the Broadband Access For All strategic objective in the Information Society Programme (IST), with the aim of creating a cheaper, faster and more reliable internet. He has been instrumental in the pursuing of a Broadband Europe, with emphasis on alternate technologies such as power line communications. He received his undergraduate degree from the University of Luanda, Angola and his Ph.D. in Electrical Engineering from the University of Missouri at Columbia (USA). He has an extensive background on telecommunications network planning and design with several multinational companies, including Rockwell International, Nortel and Verizon. He served as an ITU consultant in BanglaDesh and received two IEEE Outstanding Service Awards. He is co-author of the book "Network Systems" and a former Rotary Foundation Fellow.

SPECIAL SESSIONS

Special Sessions on Digital Broadcasting and Mobile Convergence

Date and Time: Thu. 23rd Aug. 2007, 9:00-12:30

Location: Laurel Room

Sessions Chair:

Norman Hendrich
University of Hamburg

SS1.1 Multistandard Integrated Network Convergence for Mobile and Broadcast Technologies
Norman Hendrich and Jianwei Zhang

SS1.2 The SAMBA Approach to Community-based Content Generation in Interactive Digital Television
Oscar Mayora-Ibarra, C. Costa

SS1.3 A Joint EU-China Roadmap for Mobile Multimedia Industry: the Preliminary Results
Xiaofeng Ma, Jian Xiong, Lin Gui, Chen Liu, and Wunjun Zhang

SS1.4 MOBISERVE - Toward the next generation of convergent mobile TV services
Jie Zhou, Jianzhong Li

SS1.5 A Survey of Digital TV Standards in China
Roland A. Burger, Giovanni Iacovoni, Cliff Reader, Xiaoming Fu, Xiaodong Yang, Wang Hui

SS2.1 Scalable Video Streams Transmission Strategy with Subflows Division over OFDM Broadcasting/ IEEE802.11e Wireless Network
Jingyuan Wang, Lifeng Sun, Shiqiang Yang

SS2.2 An initial study on the convergence of DVB-H and DTMB in the physical layer
Feng Yang, Jian Song, Changyong Pan, Hui Yang, Kewu Peng, Jun Wang, Zhixing Yang

SS2.3 PLC as a Return Channel for Interactive Digital TV
Eduardo Ibanhez Polo, Andre Riyuiti Hirakawa, Moacyr Martucci Junior

SS2.4 Mobile TV extension to WiFi networks for location dependent services
Yun Tao Shi, Sinan Shang Guan, Jun Li

Special Sessions on Ambient Networks

Date and Time: Thu. 23rd Aug. 2007, 14:30-18:00

Location: Laurel Room

Sessions Chair:
Di Zhou
Siemens

SS3.1 Network Composition: A Framework for Dynamic Interworking between Networks
Nadeem Akhtar, Cornelia Kappler, Peter Schefczik, Laurensius Tionardi, Di Zhou

SS3.2 Autonomic Management of Context-Aware Ambient Overlay Networks
Bertrand Mathieu, Meng Song, Alex Galis Lawrence Cheng, Kerry Jean, Roel Ocampo, Zhaohong Lai, Marcus Brunner, Martin Stiemerling, Marco Cassini, Markus Kampmann

SS3.3 ContextWare Architecture for Ambient Networks
Szymacha R., Szydlo T., Zielinski K., Jean K., Galis A.

SS3.4 QSON: QoS-aware Service Overlay Network
Meng Song, Bertrand Mathieu

SS3.5 ASI – the Ambient Network Service Interface
Markus Kampmann, Stefan Bleiholder, Adnan Tariq, Kerry Jean, Zhaohong Lai, Mirko Cano Soveri, Kazimierz Balos, Martin Stiemerling

SS4.1 Study of Handover Strategies for Multi-Service and Multi-Operator Ambient Networks
Petteri Poyhonen, Janne Tuononen, Haitao Tang, Ove Strandberg

SS4.2 Resource Management Methods for Multi-Access Networks: Emulation Results for GSM
Francesco Meago, Simona Cavalli, Matteo Coloberti

SS4.3 Paging Issues and Methods for Multiaccess
Haitao Tang, Petteri Poyhonen, Ove Strandberg, Kostas Pentikousis, Joachim Sachs, Francesco Meago, Janne Tuononen, Ramon Aguero,

SS4.4 Distributed Event-signaling in Ambient Networks Based on IP-multicast
Di Zhou, Cornelia Kappler

SS4.5 Validation of the Ambient Network System Architecture
Aurelian Bria, Jan Markendahl, Rene Rembarz, Petteri Poyhonen, Csaba Simon, Marco Miozzo, Nadeem Akhtar, Ralf Jennen

TECHNICAL SESSIONS

Wireless Communications and Networking Symposium[1]

Symposium Chairs:

Petri Mahonen
RWTH Aachen University
Chonggang Wang
University of Arkansas
Wenye Wang
North Carolina State University

Sessions:

WCN-01: Wireless Sensor Networks I – Localization Algorithms
Date and Time: Wed. 22nd Aug. 14:30-16:00
Location: Eton Ballroom I

WCN01.1 Link State Based Annulus Localization Algorithm for Wireless Sensor Networks
Xin Li, Bei Hua, Yan Guo, University of Science and Technology of China, China

WCN01.2 On Demand Localization Algorithm for Wireless Sensor Networks
Ning Yu, Jiangwen Wan, Beijing University of Posts and Telecommunications, Beijing, China

WCN01.3 A Novel Location Information based Clustering Algorithm for Wireless Sensor Networks
Yun Zhu, Youyun Xu, Yueming Cai, PLAUST, China

WCN01.4 Distributed Weighted Least Squares Scaling with Soft-Constraint for Node Localization in Wireless Sensor Networks
Fang Zhao, Yan Ma, Quan Lin, Beijing University of Posts and Telecommunications, Beijing, China, Haiyong Luo, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China

WCN-02: Wireless Sensor Network II – Routing Protocols
Date and Time: Wed. 22nd Aug. 16:30-18:00
Location: Eton Ballroom I

WCN02.1 Mission-Oriented Selective Routing for Wireless Sensor Networks

Donggeon Noh, Dongeun Lee, Heonshik Shin, Seoul National University, Seoul, Korea

WCN02.2 Grid-based directed diffusion for wireless sensor networks
Yun Li, Shuangquan Xiong, Qianbin Chen, Chong Qing University of Posts and Telecom., Chongqing, China, Fei Fang, Nei Jiang Teacher's College of China, SiChuan, China

WCN02.3 DLEC: A Delay-constrained Least Energy Consumption Routing Protocol in Wireless Sensor Network
Jue Hong, Hao Han, SangLu Lu, Daoxu Chen, Li Xie, Nanjing University, Nanjing, China

WCN02.4 Cooperative MISO-Based Energy Efficient Routing Strategies for Wireless Sensor Networks
Baiwei Yang, JinHuai Guo, Hongyi Yu, Dalong Zhang, Zhengzhou Information Science and Technology Institute, Zhengzhou, China

WCN-03: Wireless Sensor Networks III – Data Aggregation, Querying and Processing
Date and Time: Thu. 23rd Aug. 9:00-10:30
Location: Eton Ballroom I

WCN03.1 Reliable Data-Aggregation using Multi-nodes Cooperation in Wireless Sensor Networks
Zhendong Wu, Shanping Li, Zhejiang University, Hangzhou, China

WCN03.2 WISNO: Ontology Data-Processing Strategy for Wireless Sensor Networks
Shuoping Wang, Yuheng Hu, Zhendong Wu, Ming Guo, Zhejiang University, Hangzhou, China

WCN03.3 Energy Efficient Top-k Query Processing in Dynamic Sensor Network
Qunhua Pan, Minglu Li, Minyou Wu, Shanghai JiaoTong University, Shanghai, China, Shuwang Li, Information Center of The Ministry of Public Security, Beijing, China

WCN03.4 AdWAS: Adaptive Weighted Aggregation Scheme for Single-hop and Multi-hop Wireless Sensor Network
Bhushan Jagyasi, Shabbir Merchant, Deepthi Chander, Uday Desai, Bikash Dey (Indian Institute of Technology Bombay, India

WCN-04: Wireless Sensor Networks IV – MAC Protocols
Date and Time: Thu. 23rd Aug. 11:00-12:30
Location: Eton Ballroom I

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[1] The presentation time for each paper is 22 minutes (18 min. presentation + 4 min. Q &A)

WCN04.1 A Traffic Queue-aware MAC Protocol for Wireless Sensor Networks
Xinming Zhang, Zhiwei Zhao, Peng Sun, Pengxi Liu, University of Science and Technology of China, Hefei, China

WCN04.2 A Self-Organize Multi-Channel Medium Access Control (SMMAC) Protocol for Wireless Sensor Networks
Kae Hsiang Kwong, Tsung-Ta Wu, Craig Michie, Ivan Andonovic, University of Strathclyde, Glasgow, United Kingdom

WCN04.3 PSO-based Hybrid Algorithm for Multi-objective TDMA scheduling in Wireless Sensor Networks
Tao Wang, Zhiming Wu, Jianlin Mao, Shanghai Jiao Tong University, Shanghai, China

WCN-05: Wireless Sensor Networks V – Topology Control
Date and Time: Thu. 23rd Aug. 14:30-16:00
Location: Eton Ballroom I

WCN05.1 A Node Scheduling Scheme Based on Coverage-Preserving for Wireless Sensor Network
Yufu Jia, HuBei University of Economics, Wuhan, China, Hongjun Liu, Jiujiang University, Jiujiang, China

WCN05.2 A Perimeter Intrusion Detection System Using Dual-Mode Wireless Sensor Networks
Yuheng Liu, Chao Li, Yang He, Jing Wu, Zhang Xiong, Beihang University, Beijing, China

WCN05.3 Connectivity of Wireless Sensor Networks with Unreliable Links
Ruifeng Zhang, Jean-Marie Gorce, CITI / INSA-Lyon , ARES / INRIA Rhone-Alpes, France

WCN05.4 Mobile Node Deployment in Hybrid Sensor Networks
Shupeng Wang, Institute of Chinese Academy, Beijing China, Mei Yang, University of Nevada, Las Vegas, USA
Jianping Wang, City University of Hong Kong, Hong Kong, China, Yingtao Jiang, Ju-Yeon Jo (University of Nevada, Las Vegas, USA

WCN-06: Wireless Sensor Networks VI – Miscellaneousness
Date and Time: Thu. 23rd Aug. 16:30-18:00
Location: Eton Ballroom I

WCN06.1 Semi-Centralized Approach for optimized Multi-hop Virtual MIMO Wireless Sensor Networks
Pan Zhou, Xuebing Pei, Kanru Xu, Huazhong University of Sci. & Tech., Wuhan, China

WCN06.2 Autonomous Target Blocking Using Hybrid Wireless Sensor Networks

Wenzhe Zhang, Minglu Li, Shanghai Jiaotong University, Shanghai, China, Hong Feng, Ocean University of China, Qingdao, China

WCN06.3 A Modular Wireless Sensor Network Gateway Design
Lili Wu, Janne Riihijärvi, Petri Mähönen，RWTH Aachen University, Aachen, Germany

WCN06.4 The Expected Energy Consumption of Wireless Distributed Sensor Networks Based on Node Random Failures
Wei An, Fangming Shao, Huajun Meng, East China University of Science and Technology, Shanghai, China

WCN-07: Wireless Local and Personal Area Networks
Date and Time: Wed. 22nd Aug. 14:30-16:00
Location: Eton Ballroom II

WCN07.1 Performance Evaluation of IEEE 802.11 Infrastructure Mode with Intra-Cell UDP Traffic
Xiaowen Chu,Yong Yan, Hong Kong Baptist University, Hong Kong, China

WCN07.2 Optimal Configuration of IEEE 802.11e EDCA with Variable Packet Length
Wei Zhang, Jun Sun, Jing Liu, Youyun Xu, Shanghai Jiao Tong University, Shanghai, China

WCN07.3 Next-Generation WLAN Architecture for High Performance Networks
Vivek Soni, Rohit Mendiratta , Kota Engineering College, Kota , India

WCN07.4 Spatial multiplexing capacity analysis for three-dimensional wireless personal area networks
Lin X. Cai, University of Waterloo, Canada, Lin Cai, University of Victoria, Canada, Xuemin Shen, Jon Mark, University of Waterloo, Canada

WCN07.5 AHP-based Master Device Selection Mechanism for Pervasive personal network
Zheng Hu, Lei Zhang, Beijing University of Posts and Telecommunications, Beijing, China, Wei Liu, Shanghai Normal University, Shanghai, China, Yaoyao Yin, Beijing University of Posts and Telecommunications, Beijing, China

WCN-08: Applications
Date and Time: Web. 22nd Aug. 16:30-18:00
Location: Eton Ballroom II

WCN08.1 (Invited) Cooperative Communications for Ultra-Reliable Wireless Networks
Andreas F. Molisch, Mitsubishi Electric Research Labs, Cambridge, USA, and Lund University, Sweden

WCN08.2 A Low-cost Fingerprint Positioning System in Cellular Networks
Claude Takenga, Leibniz University of Hannover, Germany, Kyandoghere Kyamakya, Aplen Adria University Klagenfurt, Austria

WCN08.3 A Mobile Telephone Based, Secure Micro-Payment Technology Using the Existing ICT Infrastructure
Hasan Amca, Raygan Kansoy, Eastern Mediterranean University, North Cyprus

WCN08.4 A Hybrid Network Architecture for Mobile Multimedia Group Conferencing Based on SIP Initiated SSM
Thomas C. Schmidt, Matthias Wahlisch, HAW Hamburg, Dep. Informatik Berliner Tor 7, Germany, Hans L. Cycon, Mark Palkow, FHTW Berlin University of Applied Sciences, Germany

WCN08.5 A New Slot-Count Selection Algorithm for RFID Protocol
Mahmoud Daneshmand, AT&T Labs Research, Florham Park, USA, Chonggang Wang, Kazem Sohraby, University of Arkansas, Fayetteville, USA

WCN-09: Wireless Mesh Networks I – Quality of Service
Date and Time: Thu. 23rd Aug. 9:00-10:30
Location: Eton Ballroom II

WCN09.1 A Distributed Channel Assignment for 802.11-based Multi-Radio Wireless Mesh Networks
Deepesh Man Shrestha, Arun Ranjitkar, Young-Bae Ko, Ajou University, Korea

WCN09.2 An Iterative Approach for Maximum Concurrent Transmission in Multi-Channel Wireless Mesh Networks
Alireza Ghiamatyoun, Mohammad Nekoui, Said Nader Esfahani, University of Tehran, Iran, Mehdi Soltan, Stanford University, USA

WCN09.3 Quality-Based Adaptive Image Transmission in Multihop Wireless Mesh Networks
Wei Wang, Song Ci, Honggang Wang, Dongming Peng, Hamid Sharif, University of Nebraska-Lincoln, USA

WCN09.4 Throughput Enhancement with Bidirectional Concurrent Transmission in IEEE 802.16 Mesh Networks
Qing Xiong, Wuhan University, China, Weijia Jia, City University of Hong Kong, Hong Kong, China, Chanle Wu, Gang Ye, Wuhan University, China

WCN-10: Wireless Mesh Networks II – Analysis and Modeling
Date and Time: Thu. 23rd Aug. 11:00-12:30
Location: Eton Ballroom II

WCN10.1 Characterizing and Evaluating Interference in Multi-Channel Wireless Mesh Networks
Yunxia Feng, Munglu Li, Min-You Wu, Ling Ding, Shanghai Jiao Tong University, China

WCN10.2 Performance Improvement Based on Path Delay Analysis in WiMax Mesh Networks
Zheng Liu, Min Yang, Jufeng Dai, Tianjian University, China

WCN10.3 Deterministic results on capacity-delay tradeoffs in wireless multi-hop networks
Jingyong Liu, Lemin Li, University of Electronic Science and Technology of China, China

WCN10.4 Performance Analysis of Location Management Schemes in WiMAX Mesh Network
Weiqi Hu, Shihong Zou, Shiduan Cheng, Beijing University of Posts and Telecommunications, China

WCN-11: Ad Hoc Networks I – Routing Protocols
Date and Time: Fri. 24th Aug. 9:00-10:30
Location: Eton Ballroom I

WCN11.1 A Multipath Routing-based Misbehavior Detection in Ad Hoc Networks
Li Zhao, Jose G. Delgado-Frias, Washington State University, USA

WCN11.2 The redundant cache: An enhancement of cache mechanism in DSR
Dong Shi, Xinming Zhang, Xuemei Gao, Wenbo Zhu, Hui Fei, University of Science and Technology of China, China

WCN11.3 An Efficient Heuristic Gossiping Mechanism in Ad Hoc Routing
Xuemei Gao, Xinming Zhang, Dong Shi, Guoliang Chen, University of Science and Technology of China, China

WCN11.4 An Energy-Balanced Routing Protocol for MANETs
Yan Gu, Hohai University, China, Lianfeng Shen, Southeast University, China

WCN-12: Ad Hoc Networks II – Routing Protocols
Date and Time: Fri. 24th Aug. 11:00-12:30
Location: Eton Ballroom I

WCN12.1 Semi-Probabilistic Routing in Intermittently Connected Mobile Ad Hoc Networks
Ke Shi, Huazhong University of Science and Technology, China

WCN12.2 Secure Anonymous Routing in Trust and Clustered Wireless Ad Hoc Networks
Sisheng Chen, Li Xu and Zhide Chen, Fujian Normal University, China

WCN12.3 Load balanced broadcasting in Ad Hoc Networks Using Directional Antennas
Ling ding, Yifeng Shao, Minglu Li, Minyou Wu, Shanghai Jiao Tong University, China

WCN12.4 A New Approach to Anonymous Multicast Routing in Ad Hoc Networks
Lichun Bao, University of California, Irvine, USA

WCN-13: Ad Hoc Networks III– Quality of Service
Date and Time: Fri. 24th Aug. 14:30-16:00
Location: Eton Ballroom I

WCN13.1 An Admission Control Based on Analytical Model for Bandwidth Reservation in Ad-Hoc Networks
Manel Bourguiba, Leila Azzouz Saidane, University of Manouba, Tunisia

WCN13.2 A Measure of Mobility for Evaluating Mobile Ad Hoc Network Performance
Linna He, Wei Yin, Shanghai University of Engineering Science, China

WCN13.3 QoS Architecture in Ad Hoc Networks
Tor K. Moseng and Oivind Kure, Norwegian University of Science and Technology, Norway

WCN13.4 A Novel Reliable Broadcast Scheduling Protocol For Multi-hop Wireless Networks
Dalong Zhang, Hongyi Yu, Hanying Hu, Ana Liu, Zhengzhou Information Science and Technology Institute

WCN-14: Cellular Networks I – Admission Control
Date and Time: Thu. 23rd Aug. 14:30-16:00
Location: Eton Ballroom II

WCN14.1 A Game Theory-based Fairness Call Admission Control Scheme for CDMA Systems
Hui Zhang, Xuming Fang, Qin Yuan, Southwest Jiao Tong University, China

WCN14.2 Voice/Data Call Admission Control Algorithm Based on Call Buffer in Wireless Networks
Li Fu, Hong-ke Zhang, Yan Huo, Yu-min Feng, Beijing Jiao Tong University, China

WCN14.3 Two-Tier Call Admission Control to Minimize CBP/CDP in Heterogeneous Wireless Networks
Woojin Seok, Yoonjoo Kwon, Korea Institute of Science and Technology Information, Korea, Young-Ha Hwang, SungKee

Noh, Electronic Telecommunications Research Institute, Korea, Sang-Ha Kim, Chungnam National University, Korea

WCN14.4 Effects of DA Protocol on Traffic and a Novel Admission Control Algorithm for Multimedia
Lu Rong, Lu Ruimin, Nanjing Telecommunication Technology Institute, China, Cao Zhigang, Tsinghua University, China

WCN-15: Cellular Networks II – Scheduling Algorithms
Date and Time: Thu. 23rd Aug. 16:30-18:00
Location: Eton Ballroom II

WCN15.1 Scheduling and Performance of Multicarrier TD-SCDMA HSDPA
Lin Huibin, Nokia Siemens Network, Beijing, China, Chen Shuping, Beijing University of Posts and Telecommunications, China, Kokkos Asimakis, Nokia Siemens Networks, China

WCN15.2 STEM+: A Fair and Efficient Algorithm for Scheduling on the DSCH of UMTS Networks
R. M. Karthik, Joy Kuri, Indian Institute of Science, India

WCN15.3 Performance of Scheduling Algorithms for HSDPA
Matthias Malkowski, Andreas Kempre, Xiaohua Wang, RWTH Aachen University, Germany

WCN15.4 Adaptive Cross-layer Scheduling and Dynamic Subcarrier Allocation Algorithm Based on Service-differentiation in Multiuser OFDMA System
Xuebing Pei, Gan Liu, Guangxi Zhu, Li Li, Huazhong University of Science and Technology, China

WC-16: Cellular Networks III – Handover and Mobile IP
Date and Time: Fri. 24th Aug. 9:00-10:30
Location: Eton Ballroom II

WCN16.1 A Vertical Handoff Decision Algorithm (VHDA) and a Call Admission Control (CAC) policy in integrated network between WiMax and UMTS
Yu Liu, Chi Zhou, Illinois Institute of Technology, USA

WCN16.2 Design and Performance Evaluation of a Scalable Authentication Protocol in Mobile IP
Yong Lee, Chungju National University, Korea, Goo Yeon Lee, Hwa Jong Kim, Kangwon National University, Korea

WCN16.3 A Transport Layer Seamless Handover for Streaming Media in Wireless Overlapping Networks
Jingyu Wang, Jianxin Liao, Xiaomin Zhu, Jing Wang, Cong Liu, Zhaowen lin, Beijing University of Posts and Telecommunications, China

WCN16.4 An Analytical Model for Performance Evaluation of Handover Decision Algorithms

Xuejun Cai, Nokia Siemens Networks, China, Caixia Chia, Bell-labs Research China, Alcatel-Lucent

WCN-17: Cellular Networks IV – Performance Analysis and Improvement
Date and Time: Fri. 24th Aug. 11:00-12:30
Location: Eton Ballroom II

WCN17.1 Voice Capacity with Coverage-based CRRM in a Heterogeneous UMTS/GSM Environment
Lin Wang, H. Aghvami, N. Nafisi, King's College London, UK, O. Sallent, J. Perez-Romero, Universitat Politecnica de Catalunya, Spain

WCN17.2 An Analysis of and the Solution to the Loophole of GPRS Protocols
Ya-mei Xia, Jun-liang Chen, Xiang-wu Meng, Hao Yang, Beijing University of Posts and Telecommunications, China, Yong-sheng Huang, Hebei Polytechnic University, China

WCN17.3 A Novel Criterion of Subcarrier Allocation for Grouped MC-CDMA Systems
Yachen Wang, Peng Zhang, Yuan'an Liu, Beijing University of Posts and Telecommunications, China, Junshi Liu, Beijing Mobile Communications Company, China

WCN17.4 A Power Adjustment Scheme for Improving Outage Probability in a CDMA System
Raymond Kwan, University of Bedfordshire, UK, Cyril Leung, The University of British Columbia, Canada

WCN-18: Physical Communications I – MIMO and OFDM
Date and Time: Wed. 22nd Aug. 14:30-16:00
Location: Maple Room

WCN18.1 An Adaptive LDPC-coded MIMO-OFDM System Based on Statistical Channel State Information
Binggang Huang, Yi Hui, Wenqiang Zhang, Zhijie Zhou, PLA University of Science and Technology, China

WCN18.2 An Improved Soft Interference Cancellation Based Combined Probability Data Association and Sphere Decoding algorithm for MIMO detection
Wen Che, Hui Zhao, Wenbo Wang, Beijing University of Posts and Telecommunications, China

WCN18.3 MIMO-DAB/DMB Based on Differential Unitary Space-Frequency Modulation
Yanbo Wu, Jianping An, Yao Lu, Beijing Institute of Technology, China

WCN18.4 Optimal and Suboptimal Time Domain Training Sequences for MIMO OFDM Channel Estimation
Lu Zhen, Shanghai Jiao Tong University, China, Ge Jianhua, XiDian University, China

WCN-19: Physical Communications II – MIMO and OFDM
Date and Time: Thu. 23rd Aug. 9:00-10:30
Location: Maple Room

WCN19.1 Capacity Analysis for a Distributed MIMO-OFDM System in Composite Spatially Correlated Channels
Xiaolin Zhou, Zhaowei Liu, Zongxin Wang, Fudan University, China, Himal A. Suraweera, Jean Armstrong, Monash University, Australia

WCN19.2 Selected Mapping in Correlatively Coded OFDM
Xun Yang, Jian Wang, Daoben Li, Beijing University of Posts and Telecommunications, China

WCN19.3 Reducing the Feedback Overhead for Adaptive MIMO Multicarrier Transmission
Erlin Zeng, Shihua Zhu, Xi'an Jiao Tong University, China, Ming Xu, Panasonic R&D Center China Co., Ltd, China

WCN19.4 Linear Transceiver Design for SINR Balancing in MIMO Downlink Channels
M. Codreanu, A. Tolli, M. Juntti, and M. Latva-aho, University of Oulu, Finland

WCN-20: Physical Communications III – MIMO and OFDM
Date and Time: Thu. 23rd Aug. 14:30-16:00
Location: Maple Room

WCN20.1 Adaptive Frame Structure Design and Adaptation Control Mechanism in MIMO-OFDM Systems
Jing Zhang, Xing Fu, Xiaoxuan Zhu, Jin Xu, Beijing University of Posts and Telecommunications, China

WCN20.2 Carrier Frequency Offset Estimation in MIMO OFDM Systems
Liming He, Chang'an University, China

WCN20.3 A MIMO Transceiver Scheme Using TR-STBC for Single-Carrier UWB Communications with Frequency Domain Equalization
Dan Wang, Ling-Ge Jiang, Chen He, Shanghai Jiao Tong University, China

WCN20.4 Tracking Time-Variant Cluster Parameters in MIMO Channel Measurements
Nicolai Czink, Technische Universitat Wien, Austria, Ruiyuan Tian, Forschungszentrum Telekommunikation Wien, Austria, Shurjeel Wyne, Fredrik Tufvesson, Lund University, Sweden, Jukka-Pekka Nuutinen, Juha Ylitalo, Elektrobit, Finland, Andreas F. Molisch

WCN20.5 Adaptive Subcarrier, Bit and Power Allocation for MIMO-OFDMA Systems

Yi Zhao, Lingkang Zeng, Gang Xie, Yuanan Liu, Fang Xiong, Beijing University of Posts and Telecommunications, China

WCN-21: Physical Communications IV – Miscellaneousness
Date and Time: Fri. 24th Aug. 14:30-16:00
Location: Eton Ballroom II

WCN21.1 The Simulation Models for Rayleigh Fading Channels
Zhinian Luo, Wenjun Zhang, Shanghai Jiao Tong University, China

WCN21.2 Performance of Multiple-Access DCSK Communication over Multi-path Fading Channels with Delay Spread
Zhibo Zhou, Tong Zhou, Jinxiang Wang, Harbin Institute of Technology, China

WCN21.3 Memory Efficient Block-Serial Architecture for Programmable, Multi-Rate Multi-Length LDPC Decoder
Xiyu Zhou, Zhaoyang Zhang, Zhejiang University, China

WCN21.4 Wideband Direction-of-Arrival Estimation Using Frequency-Domain Processing Approach
Hongxia Wang, Xianling Lu, Nanjing University of Science and Technology, China

WCN-22: Physical Communications V – Miscellaneousness
Date and Time: Fri. 24th Aug. 16:30-18:00
Location: Eton Ballroom II

WCN22.1 A Bit-Loading Scheme for V-BLAST Systems with Improved BER Performance
Xiaolin Che, Chen He, Shanghai Jiao Tong University, China

WCN22.2 Hybrid OSIC/PIC detection algorithm for V-BLAST systems
Danping Li, Hailin Zhang, XiDian University, China

WCN22.3 Automatic Transmit Power Control of a Digital Fixed Wireless Link with Co-Channel Interference
Robert H. Morelos-Zaragoza, San Jose State University, USA, Kyoung-Whoan Suh, Kangnam University, Korea, Joo-Hwan Lee, Electronics and Telecommunications Research Institute, Korea

WCN22.4 A New Kind of Access Code with Zero Correlation Window -DBL Access Code
Hui Jiang, Xing Yang, Daoben Li, Beijing University of Posts and Telecommunications, China

WCN22.5 Design and Performance of Monobit Impulse Radio Receiver

Huarui Yin, University of Science and Technology of China, China, Zhengdao Wang, Iowa State University, USA, Jun Wang, Peixia Xu, Weidong Wang

WCN-23: Ultra Wideband
Date and Time: Fri. 24th Aug. 16:30-18:00
Location: Eton Ballroom I

WCN23.1 Policy-based Dynamic Channel Selection Architecture for Cognitive Radio Network
Do-Hyun Na, Hao Nan, Song-Jo Yoo, Inha University, Korea

WCN23.2 Statistical UWB Channel Model parameters estimation based on SAGE algorithm
Rachid Saadane, University Mohammed V, Morocco, Aawatif Menouni Hayar, Helmut Hofstetter, Eurecom Institute, France, Driss Aboutajdine, University Mohammed V, Morocco

WCN23.3 A Fast PN Code Acquisition Algorithm for DS-UWB Systems
Li-na Qi, Zong-liang Gan, Hong-bo Zhu, Nanjing University of Posts and Telecommunications, China

WCN23.4 A Novel Adaptive Ultra-Wideband Pulse Design Based on Cognitive Radio Theory
Liu-Lei Zhou, Hong-bo Zhu, Nanjing University of Posts and Telecommunications, China, Nai-tong Zhang, Harbin Institute of Technology, China

Optical Communications and Networking Symposium[2]

Symposium Chairs:

Indra Widjaja
Bell Labs, Alcatel-Lucent
Yikai Su
Shanghai Jiao Tong University
Pin-Han Ho
University of Waterloo

Sessions:

OCN-01: Traffic Grooming and Traffic Engineering
Date and Time: Wed. 22nd Aug. 16:30-18:00
Location: Maple Room

OCN01.1 A novel optical Ethernet network analyzer transmitting self-similar traffic
Xiaona Li, Hongxiang Wang, Yuefeng Ji, Beijing University of Posts and Telecommunications, China

OCN01.2 Graph Partition Based Traffic Balance in Industrial Network
Feng Li, Yanjun Xiao, Qizhi Zhang, Shanghai Jiao Tong University, China

OCN01.3 Test Tool Suite for ASON Signaling
Fang Liu, Wenhua Jiao, Zhiyu Zhou, Caixia Chi, Ludi Zheng, Zhiqiang Yu, Bell Labs Research China, Alcatel-Lucent Technologies

OCN01.4 RWER TCP throughput enhancement based on a GE-PON system
Mingsen Xu, Hui Li, Yuefeng Ji, Beijing University of Posts and Telecommunications, China

OCN-02: Routing and Wavelength Assignment
Date and Time: Thu. 23rd Aug. 11:00-12:30
Location: Maple Room

OCN02.1 TCP Performance Experiment over High Bandwidth Delay Product OBS Network
Shuri Cai, Jian Wu, Jintong Lin, Beijing University of Posts and Telecommunications, China

OCN02.2 Minimizing reconfiguration times of Optical Cross-Connects in distributed lightpath establishment
Lihua Lu, Qingji Zeng, Yanna Hao, Shanghai Jiao Tong University, China

OCN02.3 The Selection of Logical Rings for Packet Transmissions in WDM Optical Star Networks
JungChun Liu, Hann-Jang Ho, SingLing Lee, National Chung Cheng University, Taiwan, China

OCN02.4 BER and Latency Constrained QoS-Aware Distributed Routing for All-optical Networks
Jun He, Maite Brandt-Pearce, Suresh Subramaniam, University of Virginia, USA

OCN-03: Optical Network Protection and Restoration
Date and Time: Thu. 23rd Aug. 16:30-18:00
Location: Maple Room

OCN03.1 (Invited) Optimized Designs of p-Cycles for Survivable Multicast Sessions in Optical WDM Networks (Invited)
Wende Zhong, Feng Zhang, Yaohui Jin, Nanyang Technological University, Singapore

OCN03.2 Span Restoration in Optical Networks with Limited Wavelength Conversion
Sarah Ruepp, Jakob Buron, Nicola Andriolli, Henrik Wessing, Technical University of Denmark, Denmark

OCN03.3 Survivability Characterization of PON
Shasha Jin, Hui Li, Yuefeng Ji, Beijing University of Posts and Telecommunications, China

OCN-04: System Performance of Optical Networks
Date and Time: Fri. 24th Aug. 11:00-12:30
Location: Maple Room

OCN04.1 Wavelength Tunable Optical Burst Ring Network Test-bed and Experimental Research
Gang Wang, Hongxiang Wang, Yuefeng Ji, Beijing University of Posts and Telecommunications, China

OCN04.2 Performance Analyses of Novel Prime Code Family in Coherent Optical CDMA Network
Mohammad M. Karbassian, Fulei Liu, H. Ghafouri-Shiraz, The University of Birmingham, UK

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[2] The presentation time for each paper is 22 minutes (18 min. presentation + 4 min. Q &A)

Frontiers on Communications and Networking Symposium[3]

Symposium Chairs:

Zhihua Guo
Lenovo
Jun Zheng
University of Ottawa
Cheng Li
Memorial University of Newfoundland

Sessions:

FCN-01: Detection and Measurement
Date and Time: Wed. 22nd Aug. 14:30-16:00
Location: Cedar Room

FCN01.1 Agent-based Distributed Cooperative Intrusion Detection System
Zhaowen Lin and Yan Ma, Beijing University of Posts and Telecommunications, China

FCN01.2 Signal Measurement Method in Connected Mode for TDD Multi-mode Terminals
Yunhui Liu, Xiaolin Zhang, and Yanping Li, Lenovo China R&D Shanghai Branch, China

FCN01.3 Design and Implementation of a Distributed System Level Evaluation Platform for Mobile WiMAX
Jian Zhang, Yu Zhao, Jian Li, Jian Zhang, and Xiaodong Zhang, Shanghai Institute of Microsystem and Information Technology, China Academy of Sciences, China

FCN01.4 Evolution of Traffic Patterns in Telecommunication Systems
Poul E. Heegaard, Norwegian University of Science and Technology (NTNU), Norway

FCN-02: Resource Allocation
Date and Time: Thu. 23rd Aug. 9:00-10:30
Location: Cedar Room

FCN02.1 A New Preemption Algorithm for Diffserv-Aware Traffic Engineering in MPLS Networks
Mingying Zhu, Wu Ye, Suili Feng, and Xiaoming He, South China University of Technology, China

FCN02.2 Dual Approach for Multi-Path MAXMIM Rate Allocation
Pohao Huang, Wei K. Tsai, and Dan-Han Tsai, University of California in Irvine, USA

FCN02.3 The Research of Load Balance Improvement in Industrial Networks

Feng Li, Shanghai Jiao Tong University, China; Yanjun Xiao, Hebei University of Technology, China; Qizhi Zhang and Weidong Zhang, Shanghai Jiao Tong University, China

FCN02.4 A Novel Search Algorithm Utilizing High Degree Nodes
Fuyong Yuan, Jian Liu, Yulian Zhang, and Chunxia Yin, Yanshan University, China

FCN-03: P2P Networks
Date and Time: Thu. 23rd Aug. 11:00-12:30
Location: Cedar Room

FCN03.1 BGKR: A Novel P2P Network Based on Generalized Kautz and Ring with Constant Congestion
Jiguo Yu, Jingjing Song, Wenjun Liu and Baoxiang Cao, Qufu Normal University, China

FCN03.2 Detecting and Solving Links Overlap to Make Structured P2P Network Topology-Aware
Jing Yu, Xiaozhuo Gu, and Binqiang Wang, National Digital Switching System Engineering & Technological R&D Center, China

FCN03.3 Proposition and Provement of A TCP Feature of P2P Traffic- An Example of BitTorrent and Emule
Li-Juan Zhou, Zhi-Tang Li, and Tu Hao, Huazhong University of Science and Technology, China

FCN03.4 Study on a Two-dimensional Chord Model Based on Mobile Cellular Networks
Dongyao Zhou, Meina Song, and Junde Song, Beijing University of Posts and Telecommunications, China

FCN-04: Routing and Relaying Protocols
Date and Time: Thu. 23rd Aug. 14:30-16:00
Location: Cedar Room

FCN04.1 Shifting the Link Weights in Networks
Huijuan Wang and Piet Van Mieghem, Delft University of Technology, The Netherlands

FCN04.2 Impact of Link Weight Ranges on OSPF Weight Solutions
Yong Zuo and Jonathan Pitts, University of London, UK

FCN04.3 A Game Theory and BCC Based Flexible QoS Multicast Routing Scheme
Xingwei Wang, Lin Han, and Min Huang, Northeastern University, China

FCN04.4 A High Performance ARP Lookup System for Gigabit Ethernet
Yun Qin, Yachao Zhou, and Bin Liu, Tsinghua University, China

FCN-05: Admission and Congestion Control
Date and Time: Thu. 23rd Aug. 16:30-18:00

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[3] The presentation time for each paper is 22 minutes (18 min. presentation + 4 min. Q &A)

Location: Cedar Room

FCN05.1 A Dynamically Scheduling Policy with A Greedy Admission Control Algorithm Based on the Customer (Im)Patience
Wang Kaixi and Yang Fangchun, Beijing University of Posts and Telecommunications, China

FCN05.2 The Research of a New Active Congestion Control Algorithm
Liping Zhou and Zhishu Li, Sichuan University, China; Qiming Lei, Leshan Teacher University, China; Jiancheng Ni and Qing Li, Sichuan University, China

FCN05.3 Reasoner-Based Flow Context Aggregation
Roel Ocampo, University of the Philippines, Philippines; Alex Galis and Chris Todd, University College London, UK; Hermann De Meer, University of Passau, Passau, Germany

FCN05.4 On-line Network Resource Consumption Prediction with Confidence
Zhiyuan Luo and Alex Gammerman, University of London, UK

FCN-06: Cognitive Communications and Cooperative Diversity
Date and Time: Fri. 24th Aug. 9:00-10:30
Location: Maple Room

FCN06.1 Weighted-Collaborative Spectrum Sensing in Cognitive Radio
Xiaoge Huang, Ning Han, Guanbo Zheng, Sunghwan Sohn, and Jaemoung Kim, Inha University, Korea

FCN06.2 Fair Adaptive Resource Allocation for Multi-User OFDM Cognitive Radio Systems
Tao Qin and Cyril Leung, University of British Columbia, Canada

FCN06.3 Differential Super-Orthogonal Space-time Trellis Coded Cooperative Diversity System Without CSI
Zhu Yijun, Hu Hanying, Liang Jinshan, and Duan Zhiying, Information Engineering University, China

FCN06.4 On Diversity of Cooperative Relaying Protocols
Satya Prakash Ponnaluri and Stephen G. Wilson, University of Virginia, USA

FCN-07: Topics in Communications and Networking I
Date and Time: Fri. 24th Aug. 14:30-16:00
Location: Maple Room

FCN07.1 Multi-path Self-routing Switching Structure by Interconnection of Multistage Sorting Concentrators
Hui Li, Wei He, and Hui-yao An, Shenzhen Graduate School of Peking University, China; Peng Yi, and Bin-qiang Wang,

Information Engineering University, China; Xi Chen, Institute. of Microelectronics, Chinese Academy of Sciences, China

FCN07.2 A Sliding-Window Based Efficient Forwarding Mechanism in Shared Memory Switch Fabric
Yang Wang, Huazhong University of Science and Technology, China; Yi-Chun Zhan and Shao-Hua Yu, Wuhan Research Institute of Posts and Telecommunication, China

FCN07.3 Constructing the Overlay Network by Tuning Link Weights
Huijuan Wang and Piet Van Mieghem, Delft University of Technology, The Netherlands

FCN-08: Topics in Communications and Networking II
Date and Time: Fri. 24th Aug. 16:30-18:00
Location: Maple Room

FCN08.1 ISI Cancellation for Timing Hopping Ultra Wideband Systems
Lina Qi and Hongbo Zhu, Nanjing University of Posts and Telecommunications, China

FCN08.2 The prototypical application of cybernetic systems in remote services for buildings and civil infrastructures
George Z. Chen, Liverpool John Moores University, UK

FCN08.3 Research of Reconfigurable Charging on Adaptive Service Platform for NGN
Lingjiao Wang, Zhengkun Mi, Rongqun Peng, and Minghai Xu, Nanjing University of Posts and Telecommunications, China

Networking Security and Information Assurance[4]

Symposium Chairs:

Zhenfu Cao
Shanghai Jiao Tong University
Peter Stavroulakis
Technical University of Crete
Radha Poovendran
University of Washington

<u>**Sessions:**</u>

NS-01: Security of Wireless Sensor and Ad Hoc Networks
Date and Time: Wed. 22nd Aug. 16:30-18:00
Location: Cedar Room

NS01.1 Location-based Secure and Energy Efficient data aggregation in Wireless Sensor Networks
Cungang Yang, Jie Xiao, Ryerson University, Canada, Chang. N. Zhang, University of Regina, Canada

NS01.2 A New Threshold Ring Signature for Ad-Hoc Group
Junfang Xiao, Guihua Zeng, Shanghai Jiao Tong University, China

NS01.3 Anomaly Detection Based on Data-Mining for Routing Attacks in Wireless Sensor Networks
Song Jian-Hua, Ma Chuan-Xiang, Hubei University, China

NS01.4 A Key establishment Scheme for Providing Secure Multicasting over Bluetooth Scatternets
Subir Biswas, Syed Rehan Afzal, Jong-bin Koh, Mustafa Hasan, Gunhee Lee, Dong-kyoo Kim, Ajou University, Korea

NS-02: Security Engineering
Date and Time: Thu. 23rd Aug. 9:00-10:30
Location: Ebony Room

NS02.1 The Research of a Cooperative Model Intrusion Detection System
Qiang Zhu, Zhejiang Institute of Communications and Media, Li Gao, Huazhong Normal University, China

NS02.2 A low-cost and high efficiency architecture of AES crypto-engine

Yan Qing Zhong, Beijing Normal University,China, Jian Ming Wang, Zhen Feng Zhao, Da Yong Yu, Liang Li, Vinno Technologies Inc.

NS02.3 An Unsupervised Anomaly Detection Approach using Subtractive Clustering and Hidden Markov Model
Chun Yang, Feiqi Deng, Haidong Yang, South China University of Technology, China

NS02.4 Measuring Intrusion Effects for Rational Response: A State-based Approach
Zonghua Zhang, Xiaodong Lin, Pin-Han Ho, University of Waterloo, Canada

NS-03: Security Protocols
Date and Time: Thu. 23rd Aug. 11:00-12:30
Location: Ebony Room

NS03.1 Provably Secure Blind ID-Based Strong Designated Verifier Signature Scheme
Ning Zhang, Qiaoyan Wen, Beijing University of Posts and Telecommunications, China

NS03.2 Safeguarding Against Sybil Attacks via Social Networks and Multipath Routing
Chittaranjan Hota, Srikanth M.S.V, Birla Institute of Technology and Science, Antti Ylä-Jääski, Janne Lindqvist, Kristiina Karvonen, Helsinki University of Technology, Finland

NS03.3 On the Security of three Versions of the WAI Protocol in Chinese WLAN Implementation Plan
Qiang Tang, University of London, Ecole Normale Superieure

NS03.4 OPNET Performance Comparisons between SAODV & AODV
M. F. Juwad, H. S. Al-Raweshidy, Brunel University, UK

NS-04: Digital Watermarking
Date and Time: Thu. 23rd Aug. 14:30-16:00
Location: Ebony Room

NS04.1 Rate Controlled Video Watermarking Based on Optimal DEM Codewords
Xiaoyan Liu, Lihong Ma, Hanqing Lu, Kang Cai, Institute of Automation, Chinese Academy of Sciences, China

NS04.2 Subdivision Surface Watermarking Algorithm Based on Mesh
Quan Liu, Jing Wang, Wuhan University of Technology, China

NS04.3 A FDCT-based Asymmetric Watermarking Scheme
Jun Wang, Nanjing University, Wei Zhang, Shanghai Jiao Tong University, Zheng-kun Mi, Nanjing University of Posts

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[4] The presentation time for each paper is 22 minutes (18 min. presentation + 4 min. Q &A)

and Telecommunications, Jun-yuan Xie, Nanjing University, China

NS04.4 An Efficient Approach to Integrate Watermarking with Speech Coding
Ning Chen, Jie Zhu, Shanghai Jiao Tong University, China

NS-05: Security of Ad Hoc Networks
Date and Time: Thu. 23rd Aug. 16:30-18:00
Location: Ebony Room

NS05.1 A Lightweight Secure iSCSI-based Remote Storage Service for Mobile Devices
ErnYu Lee, YuShu They, HyoTaek Lim, HoonJae Lee, Dongseo University, Korea

NS05.2 A New Solution for Resisting Gray Hole Attack in Mobile Ad-Hoc Networks
Wei Chen, Xiang Long, Yuebin Bai, Xiaopeng Gao, Beihang University, China

NS05.3 An Enhanced Approach to Providing Secure Point-to-Multipoint Communication in Bluetooth Piconets
Subir Biswas, Syed Rehan Afzal, Jong-bin Koh, Mustafa Hasan, Gunhee Lee, Dong-kyoo Kim, Ajou University, Korea

NS05.4 Intrusion Detection Based on Improved Fuzzy C-means Algorithm
Min Yao, Wei Jiang, Jun Yan, Wuhan University, China

NS-06: Security in Large Scale Environments
Date and Time: Fri. 24th Aug. 9:00-10:30
Location: Ebony Room

NS06.1 Intrusion Alert Correlation Based on D-S Evidence Theory
Mei Haibin, Gong Jian, Southeast University, China

NS06.2 Security Measures for Convergence of Broadcasting and Communication Service in the BcN
DongHoon Shin, Ho-Seong Kim, Gang-Shin Lee, Korea Information Security Agency, Yunmook Nah, Dankook University, Korea

NS06.3 Across-Domain Deterministic Packet Marking for IP Traceback
Guang Jin, Jiangang Yang, Wei Wei, Yabo Dong, Zhejing University, China

NS06.4 A Novel Broadcast Encryption Scheme Based on SD Scheme Reconstruction
Yichun Zhang, Cheng Yang, Jianbo Liu, Jianzeng Li, Communication University of China, China

NS-07: Security Attacks and Vulnerability Analysis - I

Date and Time: Fri. 24th Aug. 11:00-12:30
Location: Ebony Room
NS07.1 Resist Network DDoS Attacks by Packet Asymmetry Path Marking
Guang Jin, Jiangang Yang, Wei Wei, Yabo Dong, Zhejiang University, China

NS07.2 Detecting DDoS That Mimic FCE with Information Theory
AnMing Wei, ShiDuan Cheng, Le Tian, HongBo Wang, Yu Lin, Beijing University of Posts and Telecommunications, China

NS07.3 A Robust Scheme to Detect SYN Flooding Attacks
Changhua Sun, Jindou Fan, Bin Liu, Tsinghua University, China

NS-08: Security Attacks and Vulnerability Analysis - II
Date and Time: Fri. 24th Aug. 14:30-16:00
Location: Ebony Room

NS08.1 Using Network Attack Graphs to Predicate the Future Attacks
Jie Lei, Zhi-tang Li,Huazhong University of Science and Technology, China

NS08.2 A First Step to Provable Security in Block Ciphers against Side Channel Attacks
Wei Li, Dawu Gu, Shanghai Jiao Tong University, China

NS08.3 Blind detection of LSB watermarking at low embedding rate in grayscale images
Lingna Hu, Lingge Jiang, Shanghai Jiao Tong University, China

NS-09: Distributed Security Systems
Date and Time: Fri. 24th Aug. 16:30-18:00
Location: Ebony Room

NS09.1 A Logic Predicate Based Automated Trust Negotiation Model
Zhensong Liao, Hai Jin, Deqing Zou, Huazhong University of Science and Technology, China

NS09.2 A Privacy Enabled Service Authorization Based on a User-centric Virtual Identity Management Systems
Zhikui Chen, University of Stuttgart, Germany

NS09.3 Designing Security Architecture for a P2P Video Conference System
Fuwen Liu, Hartmut Koenig, Brandenburg University of Technology Cottbus, Germany

Advances in Internet[5]

Symposium Chairs:

Alex Galis
University College London
Jiannong Cao
Hong Kong Polytechnic University
Junzhong Gu
East China Normal University
Minglu Li
Shanghai Jiao Tong University

Sessions:

IN-01: Middleware, Services & Interfaces - I
Date and Time: Wed. 22nd Aug. 14:30-16:00
Location: Ebony Room

IN01.1 A Java-based Middleware for Enterprise Application Integration
Gang Yao, Ronnie Cheung, Hong Kong Polytechnic University, Hong Kong, China

IN01.2 A Semantic Modeling and Verification Approach of Workflow Process Based on CSP
Lihua Guo, Zhao Lu, Junzhong Gu, East China Normal University, China

IN01.3 HCAM: A Context-aware Middleware to Support Logic-based Context Conflict Detection
Ruonan Rao, Guangchang Ye, Jinyuan You, Shanghai Jiao Tong University, China

IN01.4 Constructing Interest-Oriented Search Union of Web Servers based on P2P Overlay
Feng Hong, Ocean University of China, China, Minglu Li, Jiadi Yu, Shanghai Jiao Tong University, China, Zhongwen Guo, Ocean University of China, China

IN-02: Middleware, Service& Interfaces - II
Date and Time: Wed. 22nd Aug. 16:30-18:00
Location: Ebony Room

IN02.1 Flexible Services Composition based on ECA Rule in Grid
Yi Wang, Minglu Li, Jian Cao, Feilong Tang, Shanghai Jiao Tong University, China

IN02.2 Optimized Traveling Web Service Orchestration based on Spatio-temporal Data Model & Clustering

Yang Hao, Chen Junliang, Meng Xiangwu, Xia Yamei, Beijing University of Posts and Telecommunications China, Yu Hang, Zhongneng Power-Tech Development Co., Ltd., China

IN02.3 Flexible and Programmable Ambient Network Service Interface
Balos K. Zielinski K., Szymacha R., Szydlo T. University of Science and Technology, Poland, Jean K. Lai Z., University College London, UK

IN-03: Security & Compensation
Date and Time: Thu. 23rd Aug. 11:00-12:30
Location: Function Room

IN03.1 Finding Optimal Marking Probability to Reduce Convergence Time
Miao Ma, Danny H. K. Tsang, The Hong Kong University of Science and Technology, Hong Kong, China

IN03.2 CAGE: Clique-based Assignment of Group kEy
Avinash Srinivasan, Feng Li, Jie Wu, Florida Atlantic University, USA, Minglu Li, Shanghai Jiao Tong University, China

IN03.3 Exploring Possible Strategies for Competitions between Autonomous Systems
Lei Li, Changjia Chen, Beijing Jiao Tong University, China

IN-04: Congestion Control
Date and Time: Fri. 24th Aug. 9:00-10:30
Location: Cedar Room

IN04.1 Utilizing TTL to enhance TCP Fairness
Hangxing Wu, Northwestern Polytechnical University, China, Fengyuan Ren, Tsinghua University, China, Dejun Mu, Wenping Pan, Northwestern Polytechnical University, China

IN04.2 The Research of Active Network Congestion Control Algorithm Based on Operational Data
Jingyang Wang, Xiaohong Wang, Huiyong Wang, Min Huang, Lina Ma, Zhengtao Pan, Hebei University of Science and Technology, China

IN04.3 Online Bicriteria Load Balancing for Distributed File Servers
Savio Tse, Bilkent University, Turkey

IN04.4 Brownian Motion Based Queuing Analysis and Bandwidth Prediction for Aggregated Domain in Backbone Networks
Wang Yang, Huazhong University of Science and Technology, China, Zhan Yi-chun, Yu Shao-Hua, Wuhan Research Institute of Posts and Telecommunications, China

IN-05: Routing & Traffic Engineering
Date and Time: Fri. 24th Aug. 11:00-12:30

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[5] The presentation time for each paper is 22 minutes (18 min. presentation + 4 min. Q &A)

Location: Cedar Room

IN05.1 An Cross-Entropy Algorithm for multi-Constraints QoS Multicast Routing
Liansheng Ge, Gang Wang, Zhao Shi, Shandong University, China

IN05.2 MARP: A Multi-Agent Routing Protocol for Ad-hoc Network
Mohammad Taghi Kheirabadi, Hossein Mohammadi, Islamic Azad University, Iran

IN05.3 Internet Traffic Classification using Machine Learning
Li Jun, Zhang Shunyi, Lu Yanqing, Zhang Zailong, Nanjing University of Posts and Telecommunications, China

IN05.4 Reconfigure Feasibility Analyzing and Implementation of Embedded Protocol Stack
Lihua Song, Xiaotong Zhang, Qin Wang, Yanfei Guo, University of Science and Technology Beijing, China

In05.5 An Optimal Bandwidth Allocation Algorithm For File Distribution Network
Ou Qi, Danny H. K. Tsang, The Kong Kong University of Science and Technology, Kong Kong, China

IN-06: Peer-to-Peer Networks
Date and Time: Fri. 24th Aug. 14:30-16:00
Location: Cedar Room

IN06.1 Debt-Based File Exchange Mechanism in Peer-to-Peer Networks
Kun Yu, Yun-yang Yan, Huaiyin Institute of Technology, China, Hai-bin Mei, Sheng-hui Zhao, Southeast University, China

IN06.2 TsTlT: A Time-sensitive Two-level Trust Model Based on Reputation for Large-scale Peer-to-Peer Networks
Yu Jin, Zhimin Gu, Beijing Institute of Technology, China, Zhijie Ban, Inner Mongolia University, China

IN06.3 Anne - A Fair Service Capacity Management for P2P Overlay Networks
Huey-Ing Liu, Che-Jung Hsu, Fu Jen Catholic University, Taiwan, China

IN06.4 sStream: Peer-to-Peer Live Streaming with Efficient User Authentication and Key Management
Xuening Liu, Hao Yin, Chuang Lin, Tsinghua University, China

IN-07: Quality of Service
Date and Time: Fri. 24th Aug. 16:30-18:40
Location: Cedar Room

IN07.1 Network Calculus Approach to Router Modeling with External Measurements
Astrid Undheim, Yuming Jiang, Peder J. Emstad, Norwegian University of Science and Technology, Norway

IN07.2 Policy based resource management for QoS aware application in heterogeneous network environments
Dir Hetzer, T-system International GmBH, Germany, Ilka Mioucheva, Karl Jonas, Christian Niephaus, Fraunhofer Institute, Germany

IN07.3 Optimizing Internetworking Traffic Based on BitTorrent Network
Lei Zhang, Zheng Hu, Beijing University of Posts and Telecommunications, China, Wei Liu, Shanghai Normal University Tianhua College, China

Communication Theory and Signal Processing for Communications[6]

Symposium Chairs:

Thomas Kaiser
Leibniz University of Hannover
Zongxin Wang
Fudan University
Mischa Dohler
France Telecom

Sessions:

SP-01: MIMO
Date and Time: Wed. 22nd Aug. 14:30-16:00
Location: Function Room

SP01.1 Low Complexity Lattice Reduction Aided MMSE Precoding Design for MIMO Systems
Feng Liu, Lingge Jiang, and Chen He, Shanghai Jiaotong University, China

SP01.2 A Simplified Adaptive Modulation Scheme for MIMO Spatial Multiplexing Systems
Xiaolin Che, Chen He, and Dan Wang, Shanghai Jiaotong University, China

SP01.3 Free Space Optical MIMO System Using PPM Modulation and an Optical Amplifier
Qianling Cao, Maite Brandt-Pearce, and Stephen Wilson, University of Virginia, USA

SP01.4 Linear Multiuser MIMO Transceiver Optimization in Cooperative Networks
Antti Tölli, Marian Codreanu, and Markku Juntti, Centre for Wireless Communications, University of Oulu, Finland

SP-02: OFDM, Multicarrier and Multiuser Systems
Date and Time: Wed. 22nd Aug. 16:30-18:00
Location: Function Room

SP02.1 A Blind Post-FFT User-by-user Beamforming Algorithm for Multiuser OFDM Systems
Xiang Chen (1), Chong-Yung Chi (2), Cheng-Wei Lin (2), Wing-Kin Ma (2), Shidong Zhou (1), and Yan Yao (1), (1) Tsinghua University, China; (2) National Tsing Hua University, Taiwan, China

SP02.2 A Novel Multi-Carrier System Based on Maximum-Likelihood Sequence Detection in Frequency Domain
Jing Wang and Daoben Li, Beijing University of Posts and Telecommunications, China

SP02.3 An Adaptive User Selection Algorithm for Multiuser MISO Downlink Systems
Rui Xing, Ju Liu, and Hongji Xu, Shandong University, China

SP02.4 Adaptive Rate and Power Allocation Schemes for OFDM/SDMA Systems
Behrouz Maham, Esrafil Jedari, and *Alireza Enayati, Communication Technologies Institute, Iran Telecommunication Research Center, Iran*

SP-03: Receiver Detection Technology
Date and Time: Thu. 23rd Aug. 9:00-10:30
Location: Function Room

SP03.1 A Simple Receive Antenna Selection Algorithm for Maximizing Channel Capacity
Ju Liu, Rui Xing, and Peng Lan, Shandong University, China

SP03.2 Phase Estimation Algorithm for SFH/PSK Signals Using Few Reference Symbols
GanHua Ye and RuiMin Lu, 63th Research Institute of PLA, China

SP03.3 Real-time GPS Software Receiver Correlator Design
Tian Jin, HongLei Qin, JunJie Zhu, and Yang Liu, BeiHang University, China

SP03.4 A Novel Echo Detection Scheme Based on Autocorrelation of Power Cepstrum
Ning Chen and Jie Zhu, Shanghai Jiaotong University, China

SP03.5 Detection Guided Fractionally Spaced FIR Equalizer
Yan Jennifer Wu (1) and John Homer (2), (1) Canberra Research Laboratory, National ICT Australia & RSISE, the Australian National University, Australia; (2) University of Queensland, Australia

SP-04: Diversity and Cooperation
Date and Time: Thu. 23rd Aug. 14:30-16:00
Location: Function Room

SP04.1 An Interleaver-based Cooperation Diversity Protocol for Multiple-Relay Networks
Zhaoxi Fang, Liangbin Li, and Zongxin Wang, Fudan University, China

SP04.2 Performance Analysis of Switch-and-Stay Transmit Diversity with Feedback Errors

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[6] The presentation time for each paper is 22 minutes (18 min. presentation + 4 min. Q &A)

Andreas Mueller and Joachim Speidel, Institute of Telecommunications, University of Stuttgart, Germany

SP04.3 Orthogonal Space-Time Block Codes with Receive Antenna Selection: Capacity and SER Analysis
Andreas Mueller and Joachim Speidel, Institute of Telecommunications, University of Stuttgart, Germany

SP04.4 An Efficient Resource-Allocation Scheme for BER Performance Improvement in Multicarrier Cooperative Systems
Hangguan Shan, Hao Wang, and Zongxin Wang, Fudan University, China

SP04.5 A Single-Antenna Dual-Carrier Selection Technique for Frequency Selective Fading Channels
Jingli Li and Xiangqian Liu, University of Louisville, USA

SP-05: Error Control Coding and ARQ
Date and Time: Thu. 23rd Aug. 16:30-18:00
Location: Function Room

SP05.1 Isomorphic Constructions of Tail-Biting Trellises for Linear Block Codes
Jianqin Zhou (1) and Tomoaki Ohtsuki(2), (1) Anhui University of Technology, China; (2) Keio University, Japan

SP05.2 Lowering the Error Floor of LDPC Codes by a Two-stage Hybrid Decoding Algorithm
Yueguang Bian, Youzheng Wang, and Jing Wang, Tsinghua University, China

SP05.3 Combined Decoding with Phase Inversion for ARQ Systems
Zhenchao Wang, Wenling Xue, and Fang Wang, Hebei University, China

SP05.4 An Accurate HARQ Scheme for LDPC
Xuehua Li (1), Zhensong Li (2), and Yiqing Cao (2), (1) Beijing Information Technology Institute, China; (2) Beijing University of Posts & Telecommunications, China

SP05.5 A Fast Decoding Algorithm for Non-orthogonal Frequency Division Multiplexing Signals
Xing Yang, Wenbao Ai, Tianping Shuai, and Daoben Li, Beijing University of Posts and Telecommunications, China

SP-06: Channel Estimation and Modeling
Date and Time: Fri. 24th Aug. 9:00-10:30
Location: Function Room

SP06.1 The Validation of the Novel DVB-H Radio Channel Models
Roope Parviainen (1), Heidi Himmanen(2), Jukka Rinne (3), Pekka H. K. Talmola(4), and Jukka Henriksson (4), (1)

Elektrobit, Finland; (2) University of Turku, Finland; (3) Tampere University of Technology, Finland; (4) Nokia, Finland

SP06.2 A Novel Fading Amplitude Model and Performance Analysis of Diversity Combining Schemes
Pavel Loskot (1) and Norman C. Beaulieu (2), (1) University of Wales Swansea, United Kingdom; (2) University of Alberta, Canada

SP06.3 Iterative SNR Estimation Using A Priori Information
Yuanfei Nie, Jianhua Ge, and Yong Wang, State Key Lab of Integrated Service Networks, Xidian University, China

SP06.4 A Novel Parameter Estimation Method of Alpha-stable Distribution Based on Extreme Value
Li Li, Li Yu, Guangxi Zhu, and Xuebing Pei, Huazhong University of Science & Technology, China

SP-07: Signal Processing for UWB
Date and Time: Fri. 24th Aug. 11:00-12:30
Location: Function Room

SP7.1 A Bi-directional Adaptive Interpolating Multiuser Detector for Impulse Radio Systems
Lin Zheng, Hongbing Qiu, Shan Ouyang, and Jiming Lin, Guilin University of Electronic Technology, China

SP7.2 A Novel Two-Step Search Scheme for IR-UWB in Multipath Channels
Yanbo Wang and Shiju Li, Zhejiang University, China

SP7.3 Iterative Channel Estimation for Pulse-Based UWB Wireless Communications
Dan Wang (1), Lei Yang (2), Ling-Ge Jiang (1), and Chen He (1), (1)Shanghai Jiaotong University, China; (2) Henan University of Science and Technology, China

SP-08: Speech, Video and Image Signal Processing
Date and Time: Fri. 24th Aug. 14:30-16:00
Location: Function Room

SP08.1 A Robust Visual Feature Extraction Based BTSM-LDA FOR Audio-Visual Speech Recognition
Guoyun Lv (1), Rongchun Zhao (1), Dongmei Jiang (1), Yan Li (1), and H. Sahli (2), (1) Northwestern Polytechnical University, China; (2) Vrije Universiteit Brussel, Belgium

SP08.2 A Natural Chinese Speech Driven Mouth Animation System
Ming Xu, Jianjun Ouyang, and Yunsen Huang, Shenzhen University, China

SP08.3 Effective Error Concealment For Real-time High Definition Video Delivered over IP Network

Qingguo Zhao, Chongrong Li, Huaxia Rui, and Le Zhang, Tsinghua University, China

SP08.4 Performance Enhancement and Analysis of an Adaptive Median Filter
Yanming Zhao, Dongmei L, and Zhaohui Li, Communication University of China, China

SP-09: Advance Signal Processing Algorithms
Date and Time: Fri. 24th Aug. 16:30-18:00
Location: Function Room

SP09.1 An Image Filters Algorithm Using Level Set Based on Discontinue PDE
Jinsheng Xiao (1), Benshun Yi (1), Yuan Yao (2), and Guixiang Chen (1), (1) Wuhan University, China; (2) Laval University, Canada

SP09.2 Semi-Data-Aided Frequency Estimation Algorithm for BPSK Burst Transmissions

Yunpeng Hu, Hongyi Yu, and Hanying Hu, Zhengzhou Information Science and Technology Institute, China

SP09.3 A DOA Estimation Algorithm of Acoustic Sources Based on Wavefield Decomposition Using UCAs
Cheng Zhang, Kean Chen, and Shenggang Yan, Northwestern Polytechnical University, China

SP09.4 The Modification of Canny Operator for Fiber Cross-sectional Processing
Suping Yu, Peifeng Zeng, Xiongying Wu, and Jianping Chen, Shanghai Jiaotong University, China

VENUE AND HOTELS

THE ETON HOTEL SHANGHAI

The Eton Hotel, Shanghai is an international Deluxe Business Hotel, strategically located in the heart of Lujiazui Finance and Trade Zone in Pudong. the hotel has 462 luxuriously appointed rooms, gourmet cuisine created by international Master Chefs, Conference and Banquet facilities that can accommodate up to 500 guests. Along with our indoor pool, gym and spa. The Eton Hotel is the perfect place for the disceming business guests and leisure travelers alike.

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