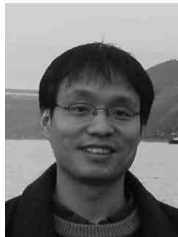


## **WC4: Wireless IC and SoC Design**

### **Session Chair**



**Wei Luo**

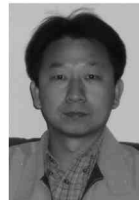
*Broadcom Corporation*

*Advanced Receiver Structures  
for OFDM-MIMO Detection*

**Xiao-Feng Qi**

*Broadcom Corporation*

*HW and SW Co-verification  
of Baseband HSPA Processor  
with Seamless PSP*



**Zheng Li**

*Mobility Solution R&D,  
Alcatel-Lucent*

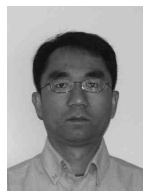
*3G Soft Modem Design*



**Ming-Jye Sheng**

*Founder, SysAir Inc.*

*SoC Design and Test Methodologies  
for Wireless Communications  
Baseband Processors*



**Henry Ye**

*Alcatel-Lucent*

*Transmitter Amplifiers  
for Impulse-based UWB System*

**Renfeng (Laura) Jin**

*Lehigh University*

## **WC5: Sensor and ad-hoc Networks**

### **Session Chair**



**Guiling (Grace) Wang**

*Computer Science Department  
New Jersey Institute of Technology*

*Achieving Confidentiality in Distributed  
Sensor Data Management*



**Wensheng Zhang**  
*Iowa State University*

*Location-Based Security Design for  
Wireless Sensor Networks*



**Yanchao Zhang**  
*Dept. of ECE  
NJIT*

*Fault Tolerant Sensor Networks  
Against Random Node Failures*



**Yanyong Zhang**  
*WINLAB/Rutgers University*

*Hybrid Networks:  
Advancing the Theory and  
Design of Wireless Networks*



**Bo Niu, Shengshan Cui,  
Alexander M. Haimovich**  
*CWCSPR  
Dept. of ECE  
NJIT*

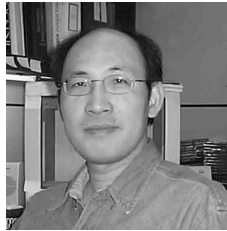
*Auction-based Spectrum Sharing for  
Cognitive Radio Networks*



**Jianwei Huang**  
*Dept. of Electrical Engineering,  
ISS Group  
Princeton University*

# NS4: Network Planning, Design Methods and Tools

## Session Chair



**Ben Tang**

*Bell Laboratories, Alcatel-Lucent*

*Large Network Design*

**Yung Yu**  
*AT&T Labs*

*Cross-Technology Planning Platform  
for Wireless Carriers*



**Weiping Wang**  
*VPIsystems Inc*

*A Management Strategy  
for MPLS-TE Networks*



**Tony Lin**  
*WANDL, Inc.*

*Wireless Backhaul Transport Cost  
Reduction Strategies*



**Ying Hu,  
Mohcene Mezhoudi,  
Vijaya Poudyal**  
*Alcatel-Lucent*

## **MM3: Multimedia Indexing and Analysis**

### **Session Chairs**



**Lexing Xie**

*IBM T J Watson Research Center*

***Dynamic Multimodal Fusion  
for Video Search***



**Lexing Xie**

*IBM T J Watson Research  
Center*

***Toward a Better Mobile Search  
Experience***



**Ning Hu**

*Google Inc.*

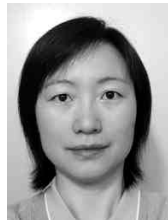
***Automatic Recognition  
of Audio-Visual Speech:  
Recent Progress and Challenges***



**Stephen M. Chu**

*IBM T. J. Watson Research  
Center*

***Ferret: A Toolkit for Content-Based  
Similarity Search of Feature-Rich Data***



**Qin Lv**

*Princeton University*

## **OC3: Advanced Optoelectronic Components**

### **Session Chair**



**Jian Jim Wang**

NanoOpto Corporation

*Observations of Nonlinearities and  
Non-classical Optics in Photonic  
Crystals*



**Chee Wei Wong**

*Optical Nanostructures  
Laboratory,  
Columbia University*

*Recent Research Activities  
on Specialty Fibers*



**Ming-Jun Li**

*Corning Incorporated*

*Nanoimprint and Holographic  
Lithographies for Large-area Nano-  
optical and Biosensing Applications*



**Jian Jim Wang**

NanoOpto Corporation

*Broadband Quantum-Dash Laser:  
A New Class of Semiconductor Laser*



**Dahai Xu**

*Dept. of Electrical Engineering  
Princeton University*

*Optical Seismic Sensor Array Based  
on Fiber-Bragg-grating Sensors*



**Yan Zhang,  
Hong-Liang Cui**

*Stevens Institute of Technology*

# **WC6: Next Generation Wireless Communications II**

## **Session Chair**

**Gang Li**

Alcatel-Lucent

***Behind Mobile WiMAX Technology***

**Chenxi Zhu, Ph.D.**

*Member of Research Staff  
Fujitsu Labs of America*

***Overview of 4G Ultra Mobile  
Broadband (UMB) Air Interface***



**Yifei Yuan**

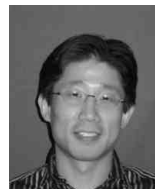
*Alcatel-Lucent*

***Overview of Ultra Mobile Broadband  
Air Interface Upper Layers Standard***

**Jialin Zou**

*Alcatel-Lucent*

***Technical Overview of 3GPP Long  
Term Evolution (LTE) and 3GPP2  
Ultra Mobile Broadband (UMB)***



**Hyung G. Myung**

*Qualcomm/Flarion Technologies*

## **WS7: Mobile Networking and Security**

### **Session Chair**



**Guangying Li**

*Alcatel-Lucent*

***Status of IMS-Based Next  
Generation Networks for Fixed  
Mobile Convergence***

**Fuchun Joseph Lin**

*Chief Scientist  
Telcordia Technologies*

***Attack Detection  
in Wireless Localization***

**Yingying (Jennifer) Chen**

*Rutgers University & Alcatel-Lucent*

***Mobile Digital Forensics***

**Yun Q. Shi**

*New Jersey Institute of Technology*

***Wireless Security Threats  
and countermeasures***

**Yih-Chen S (Steve) Wang**

*Alcatel-Lucent*

## **NS5: Emerging and Innovative Technologies**

### **Session Chair**



**Dong Sun**

*Bell Laboratories,  
Alcatel-Lucent*

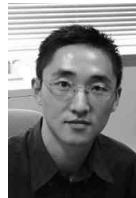
*Convergence of Policy based  
Resource Management Framework  
in Next Generation Networks*



**Dong Sun**

*Bell Laboratories,  
Alcatel-Lucent*

*Enhancing the Internet Survivability  
using IP Fast Rerouting*



**Kang Xi**

*Dept. of ECE  
Polytechnic University  
Brooklyn, NY*

*Ferry-based Intrusion Detection and  
Mitigation Schemes for Sparsely  
Connected Adhoc Networks*



**Dr. Mooi Choo Chuah**

*Lehigh University*

*A New Radio Channel Allocation  
Strategy for APs of WLANs with  
Power Control*



**Ming Yu**

*Dept. of Electrical and Computer  
Engineering  
Florida State University*

## **MM4: Multimedia Content Analysis and Delivery**

### **Session Chair**



**Rong Duan**

*AT&T Lab*

***Semi-supervised Learning in Image  
Classification***



**Rong Duan**

*AT&T Lab*

***Robust Adjusted Likelihood  
Function in Classification***

**Hong Man**

*Stevens Institute of Technology*

***IGP Weight Setting in Multimedia  
IP Networks***



**Dongmei Wang**

*AT&T Labs - Research*

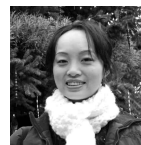
***WebTalk: Towards Automatically  
Building Interactive Systems  
Through Mining Websites***



**Junlan Feng**

*AT&T Labs Research*

***Video Coding Using 3-D Dual-tree  
Wavelet Transform***



**Beibei Wang**

*ECE Dept.  
Polytechnic University  
Brooklyn, NY*

# OC4: Optical Communication Components and Subsystems

## Session Chair



**Deyu Zhou**

*Opnext, Inc.*

***High Bit Rate Optical Data Bus  
Technologies for Advanced Wireless  
Handheld Devices***



**Louay Eldada**

*DuPont Photonics Technologies*

***Transitions from R&D to Product  
Realization — Opportunities and  
Challenges for Optical Component  
Industries***



**Deyu Zhou**

*Opnext, Inc*

***Nonlinear Silicon Photonics and Its  
Application in On-chip Optical  
Interconnection Networks***



**Xiaogang Chen**

*Columbia University*

***Radio-Frequency Characteristics of  
Ultraviolet Optical Links***



**Jie Deng**

*Electrical and Engineering Dept.  
Lehigh University*