

WC4: Wireless IC and SoC Design

Session Chair



Wei Luo

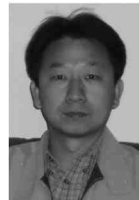
Broadcom Corporation

*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*

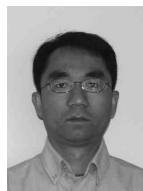
3G Soft Modem Design



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***



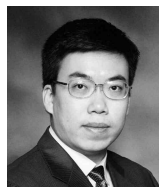
Yanyong Zhang
WINLAB/Rutgers University

***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

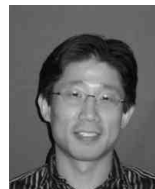
Alcatel-Lucent

***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*

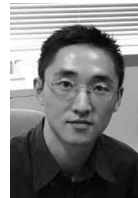
*Convergence of Policy based
Resource Management Framework
in Next Generation Networks*



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

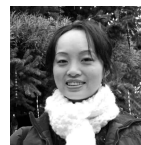
***WebTalk: Towards Automatically
Building Interactive Systems
Through Mining Websites***



Junlan Feng

AT&T Labs Research

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



Beibei Wang

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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

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Lehigh University*