

10011

WIRELESS & OPTICAL COMMUNICATIONS CONFERENCE

The 16th Annual Wireless & Optical Communications Conference



April 27 - 28, 2007 Campus Center, NJIT, Newark, NJ www.wocc.org

Conference Chair Mary Chan

President
Wireless Business Group
Alcatel-Lucent



Mary Chan is the President of the Wireless Group of Alcatel-Lucent.

A veteran in the wireless industry, she is responsible for the development and delivery of current and next-generation wireless networking solutions and infrastructure for the world's leading service providers and enterprises.

Previously, Mary Chan was Vice President, Mobility Access Research and Development for Lucent Technologies, where she led a diverse global R&D organization with teams in the United States, Europe, China and India. Prior to that, Mary Chan was Director of Business and Financial Management for Lucent, responsible for financial and strategic business planning, operations, and bids and proposals.

Mary Chan holds B.S. and M.S. degrees in Electrical Engineering from Columbia University. She also has been named as one of the "Outstanding 50 Chinese Americans in Business" by the Asian American Business Development Center.

Conference Theme

Convergent communications

Wireless Optical sixteenth Annual Communications Conference (WOCC) will bring together technical experts and business leaders from the North America and Pacific Rim to discuss multimedia, optical, and wireless communications technologies and business opportunities. The theme of WOCC 2007 is Convergent Communications over public mobile wireless networks, public fixed broadband wireline networks, and private customer premises networks. The integration of these three networks is the focus of a new next-generation network (NGN) providing convergent user-centric services that are no longer associated with the types of network access or content media. Instead, these convergent user-centric services will offer seamless delivery of multimedia applications including voice, data, image, and streaming video independent of any access technologies. The transport layer protocol is converging on Internet Protocol (IP) that propelled the growth of World Wide Web (WWW). The network and service providers will need to deploy standard-compliant converged networks and offer these new value-added services to save operational cost and grow their revenue. Convergent Communications can truly be considered as the enabler for the next phase of growth for the telecommunication industry.

Welcome Message

On behalf of the Wireless and Optical Communications Conference (WOCC) Organizing Committee, I welcome you to the 16th WOCC Conference. The scheduling of WOCC 2007 is quite timely, as we are at an important juncture in yet another telecommunications evolution. This one has the potential to significantly change, for the better, our every day life experiences, both on the job and with our families. It is also appropriate that it is held at the New Jersey Institute of Technology, a State University that is dedicated and focused on the key technologies that are influencing mankind's technological advancement.

The theme of this year's conference is *Convergent Communications*. We have gathered a group of elite industrial and academic experts from the tri-state and other regions to stimulate thought provoking discussions in wireless and optical communications and multimedia applications.

The conference is organized in 23 sessions. During the keynote and plenary sessions top executives from many companies and organizations will share their keen insight on the state of the industry. The 20 technical sessions are organized in such a way that engineers, professors and students can discuss their ideas in focused groups, reaching deeper into the technologies and the science which supports those technologies.

I hope that you will enjoy the conference's 2-day program, and also find time to explore the campus of NJIT as well.

Conference Planning Committee

Conference Chair

Mary Chan Alcatel-Lucent

Conference Organizer

Qi Bi Alcatel-Lucent

Program Chairs

AT&TAngela Chiu

Ying (Emily) Hu Alcatel-Lucent

Zhengyu Huang **RSoft**

Guangying Li Alcatel-Lucent

Zhu Liu AT&TWei Luo **Broadcom** Benjamin Tang Alcatel-Lucent

Bin Wei AT&T

Yudong Yao Stevens Institute of

Technology

Conference Coordinator

Alcatel-Lucent Ying (Emily) Hu Sigen Ye Alcatel-Lucent

Publication

Jianguo Chen Agere

Hong Zhang *InterDigital*

Treasurer

Exhibits:

Alcatel-Lucent Ying (Emily) Hu James Hwang Lehigh University

Russell Sun Alcatel-Lucent

Fund Raising

Allen Chen Innovatech Solutions (USA)

Broadcom Pan Liu

Wen-Ning Hsieh **DVI** Communications

Local Arrangement

Mengchu Zhou New Jersey Institute of

Technology (NJIT)

Yanchao Zhang **NJIT** Registration

Xin He Verizon Wireless

Web Manager

Shuang Yu Alcatel-Lucent

Jie Hu **NJIT**

Public Relations

Kevin Lu Telcordia Shuang Yu Alcatel-Lucent Kang Yueh Crown Castle Haibin Huang Conexant

Steering Committee

NJIT Mengchu Zhou

Wen-Ning Hsieh **DVI** Communications James Hwang Lehigh University

Heather Yu Huawei Technologies (USA) Allen Chen Innovatech Solutions (USA)

NJIT Hongya Ge

Technical Committee

Angela Chiu AT&T

Ying (Emily) Hu Alcatel-Lucent

Zhengyu Huang **RSoft**

Guangying Li Alcatel-Lucent

Zhu Liu AT&T

Alcatel-Lucent Benjamin Tang

Bin Wei AT&T

Yudong Yao Stevens Institute of

Technology

Jian Wu Zhejiang University (China) Zhaohui Wu Zhejiang University (China) Lei Zong NEC Laboratories America

Ching-Yung Lin IBM

Russell Sun Alcatel-Lucent Wei Luo Broadcom Deyu Zhou Opnext

Keynote Speaker Dr. Sandip Mukerjee P. Wireless Business Groun

VP, Wireless Business Group Alcatel-Lucent



BIOGRAPHY

Dr. Mukerjee is Vice President of Strategy and Chief Marketing Officer for the Wireless Business Group at Alcatel-Lucent. His responsibilities include identifying and developing strategic growth opportunities; ensuring crossdivision portfolio and technology alignment; strategic marketing and communications. He also serves as the General Manager of Mobilitec, Inc. Mobilitec, an industry leader in Mobile Content Management and Delivery, was acquired by Alcatel-Lucent in November 2006. Sandip began his career at AT&T Bell Laboratories in 1991. Most recently, Dr. Mukerjee held the position of Vice President of Applications Solutions Strategy, Marketing & Business Development at Lucent Technologies. There, his team orchestrated Lucent's entry into the Content Management and Delivery and JAVA client businesses via inorganic and organic growth and investments.

Dr. Mukerjee serves on several industry boards, including the Cellular and Telecommunication Industries (CTIA) Wireless Internet Caucus.

Dr. Mukerjee has a Ph.D. in Electrical Engineering from the New Jersey Institute of Technology and holds several U. S. and International patents.

Keynote Speaker **Dr. Ed Tiedemann**Senior VP of Engineering Qualcomm Incorporated



BIOGRAPHY

Dr. Edward G. Tiedemann, Jr. is a Senior Vice President of Engineering of QUALCOMM Incorporated. He leads QUALCOMM's worldwide standardization activities. Dr. Tiedemann was instrumental in the design and development of the TIA/EIA/IS-95 CDMA system, also called cdmaOneTM. He led QUALCOMM's and much of the industry's efforts in the design and development of the thirdgeneration cdma2000® system. Recently he has been focusing on the evolution of 3G systems, the next generation of WLAN, and the convergence of WLAN and WWAN. He is particularly interested in the implications of these changes for the wireless industry. Dr. Tiedemann chairs Working Group 3 of 3GPP2 TSG-C, which is responsible for the cdma2000® physical layer. Dr. Tiedemann holds over 100 US patents and has participated in over 40 papers, conference lectures, and industry panels.

Dr. Tiedemann holds the Ph.D. degree from MIT where he worked in the areas of queueing theory and communications networks. He holds the Master of Science degree from Purdue University where he worked on bandwidth efficient modulation. He also holds the Bachelor of Science degree from Virginia Polytechnic Institute and State University (Va Tech).

Dr. Tiedemann is past chairman on the advisory board of the College of Engineering at Virginia Polytechnic Institute and State University (Va Tech). He has received one of the Outstanding Electrical and Computer Engineer Awards that have been given by Purdue University. He is on the Board of Directors of the Open Mobile Alliance.



Conference Organizer

Dr. Qi Bi

Bell Laboratories Fellow

Alcatel-Lucent

BIOGRAPHY

Dr. Bi has his M.S. from Shanghai Jiao Tong University and Ph.D. from Pennsylvania State University. He joined Bell Laboratories in 1988. In 1995, he became a Distinguished Member of Technical Staff and two years later, he was promoted to Technical Manager.

Dr. Bi is a recognized expert in wireless communications. He received Awards of Excellence from the Advanced Technology Lab of AT&T in 1996 and 1997, and received Bell Labs President's Gold Awards in 2000 and 2002. Under his leadership, his team was recognized for its outstanding contributions in innovations and was awarded the Bell Labs Innovation Team Award in 2003. In 2004, he received the Speaker of the Year Award from the IEEE New Jersey Coast Section.

Based on his pioneering contributions in wireless communications, he broke new ground in 2003 becoming the first Chinese from mainland China since 1949 to receive the prestigious Bell Laboratories Fellow Award. In 2004, he was also recognized by the Chinese Institute of Engineers and was awarded the Asian American Engineer of the Year Award during Engineers Week in the United States.

Dr. Bi has published extensively in many technical journals and conferences and has served as editors in many technical publications. He was often invited as a keynote speaker in many international conferences and has filed more than 50 US patents. He was also the New York chapter president of the Alumni Association of the Chiao Tung University from 2002 to 2006. He has been listed in Who's Who since 2003.

Keynote Speaker Dr. James Wei

Former Dean School of Engineering and Applied Science, Princeton University



BIOGRAPHY

Dr. Wei served as dean of Princeton's School of Engineering and Applied Science from 1991 to 2002, after serving at MIT as the Department Head of Chemical Engineering and Warren K. Lewis Professor from 1977 to 1991.

Dr. Wei does research in catalysis and zeolites as it relates to environmental problems. Dr. Wei has published more than 100 articles, and has been editor of several books and journals. He is currently editor in chief of Advances in Chemical Engineering, a journal devoted to informing a general audience of major developments taking place in the field of chemical engineering. As an expert on the environmental impact of the chemical industry, he has participated in many governmental panels, such as the National Research Council. Dr. Wei has received numerous awards, and has been elected into the ranks of the National Academy of Engineering, American Academy of Arts and Sciences, and Academia Sinica.

Keynote Speaker Dr. Sudhir Ahuja

VP of Convergence Bell Laboratories Research



BIOGRAPHY

Dr. Ahuja is currently Vice President of the Convergence, Software, and Computer Science Laboratory and is leading and managing research in converged networks, services, speech recognition, text-to-speech coding techniques, video based communication and novel multimedia applications.

Sudhir R. Ahuja obtained his M.S. and Ph.D. degrees in electrical engineering from Rice University in 1974 and 1977, respectively. His undergraduate education was at the Indian Institute of Technology, Bombay, where he received the Presidents Gold Medal for outstanding academic performance in 1972. He has been with AT&T Bell Laboratories, Holmdel, NJ, from 1977 and continues to be with Bell Labs in Lucent Technologies in Murray

Dr. Ahuja is a Fellow of Bell Labs. He is currently an Associate Editor for the Transactions on Multimedia Communications and Applications for ACM. He has served as Chairman for the Multimedia Services and Terminals Committee of the IEEE Society, Area Editor for the IEEE Communications Committee and Editor for Transactions on Networking, a joint publication of IEEE and ACM. Associations and societies include IEEE, ACM, and Sigma Xi.







Financial Sponsors

Alcatel Lucent

Chunghwa Telecom

Microelectronics Technology Inc.

Anadigics, Inc.

WANDL, Inc.







CWCSPR, New Jersey Institute of Technology

Conference Co-Sponsors

Chinese American Academic and Professional Society (CAAPS) Chinese Association of Science and Technology - USA (CAST-USA) Chinese Institute of Engineers - USA (CIE-USA) IEEE Northern Jersey Section Monte Jade Science and Technology Association (MJSTA) Photonics Society of Chinese Americans (PSC)

PROGRAM AT A GLANCE

	Friday, April 27, 2007						
08:00-17:00)–17:00 Registration						
09:00-09:10		Opening Remarks: Dr	r. Donald H. Sebastian, Senior VP for	Research & Development, NJI	Т		
09:10–10:30	Keynote Speakers:	Sandip Mukerjee, VP, Alca Ed Tiedemann, Senior VP		reless Communications" nications: Perspectives on the St	ate of the Technology and Where it Is Goin	ng"	
10:30-10:40			Break				
10:40–12:10	Plenary Session (Chair: Yeheskel Bar-Ness, NJIT) Plenary Session (Chair: Yeheskel Bar-Ness, NJIT) (Chair						
12:10-13:40			Lunch			H	
13:40–15:20	Next Generation Wireless Communications I Chair: Qinqing Zhang		New Services and Challenges in a Converged Network Chair: Carlos Urrutia-Valdes	P2P Technology and Its Applications Chairs: Yang Guo, Thomson	Optical Network Architecture, Design, and Planning Chair: Angela Chiu Po	oster ssion	
	Alcatel-Lucent	Alcatel-Lucent	Alcatel-Lucent	Yong Liu, Polytechnic Univ	~		
15:20-15:40	15:40 Break						
15:40–17:20	WC3 Panel Session Mobile Applications	NS2 Network Reliability	Migration to NGN and Mobile Broadband	MM2 Multimedia Applications	Occ Optical Communication Technologies		
	Chair: TC Chiang TC Consulting Group	Chair: Mohcene Mezhoudi Alcatel-Lucent	Chair: Amit Mukhopadhyay Alcatel-Lucent	Chair: Zhen Wen IBM	Chair: Xiang Liu Alcatel-Lucent		

			Saturday, April 28, 2007				
08:00-17:00			Registration				
09:00-10:30	Keynote Speakers: James Wei, Former Dean, Princeton University "How To Be Successful In America" Sudhir R. Ahuja, VP, Bell Labs, Alcatel-Lucent "Multimedia Applications for a Converged World"						
10:30-10:40			Break				
10:40–12:10	Plenary Session (Chair: Qi Bi, Alcatel-Lucent) (Chair: Qi Bi,						
12:10-13:40	Lunch						
13:40–15:20	WC4 Wireless IC and SoC Design	WC5 Sensor and Ad-Hoc Networks	NS4 Network Planning, Design Methods and Tools	MM3 Multimedia Indexing and Analysis	Advanced Optoelectronic Components	Poster hibiti	
13.40-13.20	Chair: Wei Luo Broadcom	Chair:Guiling (Grace) Wang NJIT	Chair: Ben Tang, Alcatel-Lucent	Chair: Lexing Xie IBM	Chair: Jian Jim Wang NanoOpto Corporation	Session S	
15:20-15:40	5:40 Break						
15:40–17:20	Next Generation Wireless Communications II		NS5 Emerging and Innovative Technologies	Multimedia Content Analysis and Delivery	Optical Communication Components and Subsystems		
13.40-17.20	Chair: Gang Li Alcatel-Lucent	Chair: Guangying Li Alcatel-Lucent	Chair: Dong Sun Alcatel-Lucent	Chair: Rong Duan AT&T	Chair: Deyu Zhou Opnext		

Parallel Session 1 of 4

WOCC Technical Sessions – Friday, April 27, 2007, 13:40 – 15:20

Next Generation WC1 Wireless Communications I Chair: Qinqing Zhang Alcatel-Lucent	Wireless WC2 Fundamental Researches Chair: Jianghong Luo Alcatel-Lucent	New Services and Challenges in a Converged Network Chair: Carlos Urrutia-Valdes Alcatel-Lucent	P2P Technology and Its Applications Chairs: Yang Guo, Thomson Yong Liu, Polytechnic Univ.	Optical Network OC1 Architecture, Design, and Planning Chair: Angela Chiu AT&T
Road to High Speed WLAN Xiaowen Wang Agere WiMAX: The Path to the Mobile Internet Shupeng Li Alcatel-Lucent Introduction to the New Generation WiFi Technology Lushen Ji AT&T Labs - Research UMTS Long Term Evolution Fang-Chen Cheng Song Lei Alcatel-Lucent Baseband Algorithms for UMTS Long Term Evolution Lei Song Fang-Chen Cheng Alcatel-Lucent	Recent Advances on Constant and Varying Power Orthogonal Spreading Codes in Radio Communications Ali Akansu NJIT Interference Suppression Techniques for Multiuser MIMO Systems Xiaodong Wang Columbia University Adaptive Transmission with Variable-Rate Turbo Bit- Interleaved Coded Modulation Jianghong Luo Alcatel-Lucent Cooperative Source and Channel Coding For Wireless Multimedia Transmission Ozgu Alay Polytechnic University Mapping Link SNRs of Real- World Wireless Networks onto an Indoor Testbed Jing Lei Rutgers University	Convergence, IMS and Beyond Carlos Urrutia-Valdes Alcatel-Lucent Redefining How People Communicate: An Overview of Tele-Presence Franck Noel Cisco Operational Challenges of Deploying Converged Services over IP Romel Khan IDT Corporation Challenges and Solutions in Applying Ad hoc and Sensor Networking for Public Safety Applications Liang Cheng Lehigh University	Content Security in P2P Networks Heather Yu Huawei Tech. (USA) Efficient Substream Encoding and Transmission for P2P Video on Demand Zhengye Liu Polytechnic University Peer-to-Peer Video Streaming: Success and Limits Yong Liu Polytechnic University QoS aware P2P Video-on- Demand Service Yang Guo Thomson	IP over Optical Cross-Connect Architectures Guangzhi Li AT&T Labs - Research Design and Planning Tool for Optical Networks Yunfeng Shen CIENA Corporation A Systematic Approach of Incremental Design for Optical Network Dah-Min Hwang AT&T Labs Optimal Provisioning of Elastic Service Availability Dahai Xu Princeton University

Parallel Session 2 of 4

WOCC Technical Sessions – Friday, April 27, 2007, 15:40 – 17:20

WC3 Panel Session Mobile Applications Chair: TC Chiang TC Consulting Group Converged Networks, Location	NS2 Network Reliability Chair: Mohcene Mezhoudi, Alcatel-Lucent Metrics for Network Resilience	Migration to NGN and Mobile Broadband Chair: Amit Mukhopadhyay Alcatel-Lucent Wireless - Wireline Convergence	Chair: Zhen Wen IBM	Optical Communication Technologies Chair: Xiang Liu Alcatel-Lucent Technologies, Economics, and
Converged Networks, Location Based Services, and Mobile Applications	and Robustness Michael Torteralla Rutgers University Probabilistic Solution Discovery for Network Reliability Optimization Jose Ramirez-Marquez Stevens Inst. of Technology Developing Quantitative Reliability Roadmap to Meet Market Expectation Xuemei Zhang Alcatel-Lucent Convergent Communications for	Tod Sizer Alcatel-Lucent Mobile WiMax in Next Generation Networks Zulfiquar Sayeed Alcatel-Lucent	for Information Seeking Zhen Wen IBM Berkeley-DB for Text/Multimedia Retrieval Chun Jin Carnegie Mellon University Providing Intelligent Conversation Notation Services in Enterprises Xiaotao Wu A voye	Deployment of Optical Access Networks Kevin W. Lu Telcordia Technologies Optical Technologies for High Capacity Fiber Transmission

Parallel Session 3 of 4

WOCC Technical Sessions – Saturday, April 28, 2007, 13:40 – 15:20

WC4 Wireless IC and SoC Design Chair: Wei Luo Broadcom	WC5 Sensor and Ad-Hoc Networks Chair: Guiling (Grace) Wang NJIT	Network Planning, Design Methods and Tools Chair: Ben Tang, Alcatel-Lucent	MM3 Multimedia Indexing and Analysis Chair: Lexing Xie IBM	Advanced OC3 Optoelectronic Components Chair: Jian Jim Wang NanoOpto Corporation
Advanced Receiver Structures for OFDM-MIMO Detection Xiaofeng Qi Broadcom HW and SW Co-verification of HSUPA for W-CDMA Channel Processor with Seamless PSP Zheng Li Alcatel-Lucent 3G Soft Modem Design Ming-Jye Sheng Sysair SoC Design and Test Methodologies for Wireless Communications Baseband Processors Henry Ye Alcatel-Lucent Transmitter Amplifiers for Impulse-based UWB System Laura (Renfeng) Jin Lehigh University	Achieving Confidentiality in Distributed Sensor Data Management	Large Network Design Yung Yu AT&T Cross-Technology Planning Platform for Wireless Carriers Weiping Wang VPI System A Management Strategy for MPLS-TE Networks Tony Lin WANDL Wireless Backhaul Transport Cost Reduction Strategies Vijaya Poudyal Alcatel-Lucent	Dynamic Multimodal Fusion for Video Search Lexing Xie IBM Toward a Better Mobile Search Experience Ning Hu Google Automatic Recognition of Audio-Visual Speech: Recent Progress and Challenges Stephen Chu IBM Ferret: A Toolkit for Content-Based Similarity Search of Feature-Rich Data Qin Lv Princeton University	Observations of Nonlinearities and Non-classical Optics in Photonic Crystals

Parallel Session 4 of 4

WOCC Technical Sessions – Saturday, April 28, 2007, 15:40 – 17:20

WC6 Next Generation Wireless Communications II Chair: Gang Li Alcatel-Lucent	WC7 Mobile Networking and Security Chair: Guangying Li Alcatel-Lucent	NS5 Emerging and Innovative Technologies Chair: Dong Sun Alcatel-Lucent	Multimedia Content Analysis and Delivery Chair: Rong Duan AT&T	Optical Communication Components and Subsystems Chair: Deyu Zhou Opnext
Behind Mobile WiMAX Technology Chenxi Zhu Fujitsu Lab 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 Myung Qualcomm	Status of IMS-Based Next Generation Networks for Fixed Mobile Convergence Joe Lin Telcordia Attack Detection in Wireless Localization Yingying(Jennifer) Chen Alcatel-Lucent Mobile Digital Forensics Yun-Qing Shi NJIT Wireless Security Threats and Countermeasures Steve Wang Alcatel-Lucent	Convergence of Policy based Resource Management Framework in Next Generation Networks Dong Sun Alcatel-Lucent Enhancing the Internet Survivability Using IP Fast Rerouting Kang Xi Polytechnic University Ferry-Based Intrusion Detection and Mitigation Schemes for Sparsely Connected Adhoc Networks Mooi Choo Chuah Lehigh University A New Radio Channel Allocation Strategy for APs of WLANs With Power Control Ming Yu Florida State University	Semi-Supervised Learning in Image Classification Rong Duan AT&T Robust Adjusted Likelihood Function in Classification Hong Man Steven Inst. of Technology IGP Weight Settings in Multimedia IP Networks Dongmei Wang AT&T WebTalk: Towards Automatically Building Interactive Systems Through Mining Websites Junlan Feng AT&T Video Coding Using 3-D Dual- Tree Wavelet Transform Beibei Wang Polytechnic University	High Bit Rate Optical Data Bus Technologies for Advanced Wireless Handheld Devices Louay Eldada DuPont Photonics Tech. 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 Lehigh University

Poster Sessions – Friday April 27 and Saturday April 28, 13:40 – 15:20

1. Hasan Mahmood and Cristina Comaniciu

Stevens Institute of Technology

A Cross-Layer Game Theoretic Solution for Interference Mitigation in Wireless Ad Hoc Networks

2. Nie Nie and Cristina Comaniciu,

Stevens Institute of Technology

Prathima Agrawal

Auburn University

A Game Theoretic Approach to Energy Efficiency in Cognitive Networks

3. Si Yin and Nirwan Ansari

New Jersey Institute of Technology

A Novel Approach for Extending Storage Area Network (SAN) over Optical Access Network

4. Eric Bi and Justin Bi

Morristown High School, Morris County, NJ

Cell Phone Design for the Youth Generation

5. Pan Liu

Broadcom

Yeheskel Bar-Ness

New Jersey Institute of Technology

Comparison of Phase Noise Effect in OFDM and Single-Carrier Frequency Domain Equalization (SC-FDE) Systems

6. Eric Cheng Chen, Chee-Loon Tan,

Lehigh University

Yang Wang, Boon S. Ooi, and James C. M. Hwang,

Linewidth Enhancement Factor of InAs/InAlGaAs Quantum-dash-in-well Laser

7. Di Zheng and Yu-Dong Yao,

Stevens Institute of Technology

MAC Protocols for Wireless Sensor Networks

8. Zhuo Yang, Didem Kivanc-Tureli, and Uf Tureli,

Stevens Institute of Technology

Multiple Antennas Receiver Initiated Busy Tone Medium Access (MARI-BTMA) Protocol in Decentralized Wireless Network

9. Seon Woo Lee and Haim Grebel,

New Jersey Institute of Technology

Properties of Carbon Nanotube/Conducting Polymer Addressable Interconnects

10. Xiaoling Chen and Ufuk Tureli,

Stevens Institute of Technology

Source Localization Based on Energy Measurement with Randomly Distributed Sensor Array

11. Yun-Hsiang Ding and Vitchanetra Hongpinyo,

Lehigh University

Semiconductor Photonic Integration Using Cu-doped SiO₂ Induced Intermixing

12. Bo Niu, Osvaldo Simeone, and Alexander M. Haimovich,

New Jersey Institute of Technology

Oren Somekh, Princeton University

Throughput of Broadcast Channels with Outdated Limited Feedback and User Selection

Conference Participated by





























<u>opnext</u>





















Iowa State University

























