

**THIRTY-NINTH  
ASILOMAR CONFERENCE ON  
SIGNALS, SYSTEMS AND  
COMPUTERS**

**SS&C Conf. Corp.  
P.O. Box 8236  
Monterey, CA 93943**



**October 30 - November 2, 2005**  
Asilomar Hotel and  
Conference Grounds

**In Cooperation with**

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**Signal Processing Society**  <sup>®</sup>

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**THIRTY-NINTH  
ASILOMAR CONFERENCE ON  
SIGNALS, SYSTEMS & COMPUTERS**

**Organized in cooperation with**

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**Welcome from the General Chairman**

Prof. Hui Liu, University of Washington

Dear participants, on behalf of the Organizing Committee, it is my great pleasure to welcome you to the Thirty-Ninth Asilomar Conference on Signals, Systems and Computers. The Asilomar Conference focuses on the system and computing perspective in fields ranging from signal processing to wireless communications, DSP, speech and video, and implementation issues. Many of us have been long-time participants to this unique conference. For those who are here for the first time, you will soon appreciate the fact that Asilomar is more than just an outstanding technical conference. There are many natural treasures that make Asilomar a delightful conference ground. The beauty of the Pacific coast and the friendly and casual workshop environment has welcomed many people over the last 40 years. It is a place to interact with top scholars and get inspired.

This year, for the opening Sydney Parker Memorial Lecture, we are very fortunate to have Prof. P. R. Kumar, Franklin W. Woeltge Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign. Prof. Kumar's keynote speech, "The oncoming convergence of control with communication and computing," will explore the possible next phase of the information technology revolution. His lectures are always informative and stimulating.

Our technical program features many exciting themes. In addition to the regular sessions, we have organized a student paper contest where top new talents will be evaluated. The finalists in this year's student paper contest, under the direction of Prof. Jerry Gibson of UC Santa Barbara, will present their posters on Sunday evening during the welcome reception and social gathering. The top ten papers will be presented and judged.

I would like to express my gratitude to all the people who have contributed to make this event possible, including the authors who contributed papers, the invited speakers, and the invited reviewers. I take the opportunity to give a special thank you to Prof. Behnaam Aazhang and the technical committee members for the remarkable job they have done in planning and organizing the meeting. Thanks are also extended to the conference administrative committee and the faculty and staff of the Naval Postgraduate School, who dedicate themselves year after year to organizing this special conference.

I wish you all a pleasant stay in Asilomar.

Hui Liu  
University of Washington, July 2005

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## 2005 Asilomar Conference Session Schedule

### Sunday Afternoon, October 30

2:00 - 7:00 PM Registration – Main Lodge  
7:00 - 9:00 PM Welcoming Reception and Student Paper Contest  
Poster Session at Asilomar – Merrill Hall

### Monday Morning, October 31

7:30 - 9:00 AM Breakfast – Crocker Dining Hall  
8:00 AM - 6:00 PM Registration  
8:15 - 9:45 AM MA1a – Conference Opening and Plenary Session  
9:45 - 10:15 AM Coffee Social

#### 10:15 - 12:00 PM MORNING SESSIONS

MA1b Sources and Channell Coding  
MA2b Systems and Networks  
MA3b Multimedia Signal Processing  
MA4b Wireless Testbeds and Architectures  
MA5b Time-Varying Estimation  
MA6b CDMA Techniques  
MA7b MIMO Capacity

12:00 - 1:00 PM Lunch – Crocker Dining Hall

### Monday Afternoon, October 31

#### 1:30 - 5:10 PM AFTERNOON SESSIONS

MP1 UWB  
MP2 Sensor Networks  
MP3 Advanced Signal Processing Algorithms  
MP4 Biomedical Signal and Image Processing  
MP5 Speech and Audio  
MP6 Adaptive Systems  
MP7 MIMO Feedback Communication  
MP8a1 Communication over Non-Ideal Channels (Poster)  
MP8a2 Multiuser Wireless Systems (Poster)  
MP8b Signal Processing Applications (Poster)

### Monday Evening, October 31

6:30 - 9:30 PM Conference Cocktail Social – Merrill Hall

## 2005 Asilomar Conference Session Schedule

(continued)

### Tuesday Morning, November 1

7:30 - 9:00 AM Breakfast – Crocker Dining Hall  
8:00 AM - 5:00 PM Registration

#### 8:30 AM - 12:10 PM MORNING SESSIONS

TA1 Coding and Modulations  
TA2 Feedback Communications  
TA3a Signal Processing for Wireless Communications  
TA3b Signal Processing for UWB/OFDM  
TA4 Decoder Architectures  
TA5 Video and Applications  
TA6 Adaptive Receivers  
TA7 MIMO Detection Strategies  
TA8a1 Audio, Video, and Image Processing (Poster)  
TA8a2 Communication Systems (Poster)  
TA8b Power Efficient Communication (Poster)

12:00 - 1:00 PM Lunch – Crocker Dining Hall

### Tuesday Afternoon, November 1

#### 1:30 - 5:10 PM AFTERNOON SESSIONS

TP1 Relay Channels  
TP2 Synchronization  
TP3 Applied Signal Processing  
TP4 Computer Arithmetic  
TP5 Source Coding  
TP6 Space Time Coding  
TP7 Detection and Estimation  
TP8a Architecture and Implementation (Poster)  
TP8b Array Processing and Wireless Communications (Poster)

### Tuesday Evening, November 1

8:00 - 10:00 PM Bonfire at the fire pit next to Crocker Hall

## 2005 Asilomar Conference Session Schedule

(continued)

### Wednesday Morning, November 2

7:30 - 9:00 AM	Breakfast – Crocker Dining Hall
8:00 AM - 12:00 PM	Registration – Papers must be turned in before the registration closes at 12:00 noon.
8:30 AM - 12:10 PM	MORNING SESSIONS
WA1	OFDM
WA2	MIMO and Multiple Access
WA3	Multi-Sensor Signal Processing
WA4	Wireless Systems
WA5a	Low Power and FPGA
WA5b	Computer Architectures
WA6	Image Enhancement and Modeling
WA7	Beamforming and Direction of Arrival Estimation
WA8	Network Information Theory
12:00 - 1:00 PM	Lunch – Meal tickets may be purchased at registration desk. This meal is not included in the registration.

## Student Paper Contest

Poster session Sunday, October 30, in Merrill Hall, papers to remain posted during Welcome Reception.

### Category A – Communication Systems and Networks

*“Multi-Source Cooperative Networks with Distributed Convolutional Coding”*

Renqiu Wang, Wanlun Zhao, and Georgios B. Giannakis, University of Minnesota

*“Distributed Detection in Sensor Networks: Connectivity Graph and Small World Networks”*

Saeed Aldosari and Jos Moura, Carnegie Mellon University

*“A Parametric Analytical Diffusion Model for Indoor Ultra-Wideband Received Signal”*

Majid Nemati and Robert Scholtz, University of Southern California

*“Source and Channel Coding for Quasi-Static Fading Channels”*

Deniz Gunduz and Elza Erkip, Polytechnic University

### Category C – Array Processing and MIMO

*“A Multi-user SC-FDE-MIMO System for Frequency-Selective Channels”*

Li Guo and Yih-Fang Huang, University of Notre Dame

### Category D – Biomedical Signal and Image Processing

*“Multi-Static Adaptive Microwave Imaging for Early Breast Cancer Detection”*

Yao Xie, Bin Guo, Luzhou Xu, Jian Li, University of Florida; Peter Stoica, Uppsala University

### Category E – Signal Processing Algorithms and Applications

*“On the Unimodality of Deflation based Fast ICA Contrast”*

Malay Gupta and Balu Santhanam, The University of New Mexico

*“Blind Correction of Gain and Timing Mismatches for a Two-Channel Time-Interleaved Analog-to-Digital Converter”*

Munkyo Seo, Mark Rodwell, Upamanyu Madhow, University of California-Santa Barbara

### Category G – Speech, Image, and Video Processing

*“Optimal Motion Compensation for Low Bit Rate Wavelet Based Error Frame Coding”*

Lorenzo Cappellari, University of Padova, Truong Nguyen, University of California-San Diego

*“Perceptual Video Coding with H.264”*

Koohyar Minoos and Truong Nguyen, University of California-San Diego

## 2005 Asilomar Conference Session Schedule

Coffee breaks will be at 10:10 AM and 3:10 PM, except on Monday morning when refreshments will be served outside Merrill Hall from 9:45-10:15 AM.

**Monday, November 8**

### CONFERENCE OPENING AND PLENARY SESSION 8:30 – 9:45 AM

1. Welcome from the General Chairperson:

**Prof. Hui Liu**  
University of Washington

2. Session MA1a      Sidney Parker Memorial Lecture for the  
2005 Asilomar Conference

**P. R. Kumar**  
Franklin Woeltge Professor  
Dept. of Electrical and Computer Engineering, and  
Research Professor, Coordinated Science Lab  
University of Illinois  
Urbana, Illinois

### **The Oncoming Convergence of Control with Communication and Computing**

#### **Abstract**

A possible next phase of the information technology revolution could be the convergence of control with communication and computing. This will involve both sensing and actuation over wireless or wired networks. We address some challenges in this area, and describe our efforts and testbed in the Convergence Lab at the University of Illinois.

#### **Biography**

P. R. Kumar obtained his B. Tech. from I.I.T., Madras in 1973, and his M.S. and D.Sc. from Washington University in St. Louis in 1975 and 1977, respectively. From 1977 - 1984 he was with the University of Maryland, Baltimore County, and since 1985 he has been with the University of Illinois,

Urbana-Champaign, where he is currently Franklin W. Woeltge Professor of Electrical and Computer Engineering. Prof. Kumar is a Fellow of the IEEE, received the Donald P. Eckman Award of the American Automatic Control Council in 1985, and is a recipient of the IEEE Field Award in Control Systems for 2006. His current research interests are in wireless networking, sensor networks, and control over networks.

**Program of 2005  
Asilomar Conference  
on  
Signals, Systems, and Computers**

**Technical Program Chairman  
Behnaam Aazhang  
Rice University**

### Session MA1b Source and Channel Coding

- MA1b-1 The sum-rate for the vector Gaussian CEO problem 10:15 AM  
*Saurabha Tavildar, Pramod Viswanath, University of Illinois, Urbana-Champaign*
- MA1b-2 Variable-Rate Universal Slepian-Wolf Coding with Feedback 10:40 AM  
*Shriram Sarvotham, Dror Baron, Richard Baraniuk, Rice University*
- MA1b-3 Design of n-Channel Multiple Description Vector Quantizers 11:05 AM  
*Tomas Andersson, Mikael Skoglund, Royal Institute of Technology (KTH)*
- MA1b-4 Source and Channel Coding for Quasi-Static Fading Channels 11:30 AM  
*Deniz Gunduz, Elza Erkip, Polytechnic University*

### Session MA2b Systems and Networks

- MA2b-1 Extensions of the Signal Richness Preservation Problem in LTI Systems 10:15 AM  
*Borching Su, P. P. Vaidyanathan, California Institute of Technology*
- MA2b-2 Distributed Optimization and Duality in QoS Control for Wireless Best-Effort Traffic 10:40 AM  
*Marcin Wiczanowski, University of Technology Berlin; Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications; Holger Boche, University of Technology Berlin*
- MA2b-3 A Hybrid ARQ Scheme for Resilient Packet Header Compression 11:05 AM  
*Vijay Suryavanshi, Aria Nosratinia, University of Texas, Dallas*
- MA2b-4 Throughput Analysis of Selective Repeat ARQ in Fading Wireless Channels 11:30 AM  
*Kamtorn Ausavapattanakun, Aria Nosratinia, University of Texas, Dallas*

### Session MA3b Multimedia Signal Processing

- MA3b-1 Shape-preserving mesh decimation within a graph-theoretic framework 10:15 AM  
*Anupama Jagannathan, Eric Miller, Northeastern University*
- MA3b-2 A Non-expansive Convolution for Nonlinear-Phase Paraunitary Filter Banks and Its Application to Image Coding 10:40 AM  
*Yuichi Tanaka, Akihiro Ochi, Masaaki Ikehara, Keio University*
- MA3b-3 A New Adaptive Zoom Algorithm for Tracking Targets Using Pan-Tilt-Zoom Camera 11:05 AM  
*Himanshu Shah, Darryl Morrell, Arizona State University*
- MA3b-4 A Morphing Approach for Synthesizing Multichannel Recordings 11:30 AM  
*Ching-Shun Lin, Chris Kyriakakis, University of Southern California*

### Session MA4b Wireless Testbeds and Architectures

- MA4b-1 A VLSI Architecture for V-BLAST OFDM Detection 10:15 AM  
*Zhaohui Cai, Sumei Sun, Jianzhong Hao, Institute for Infocomm Research*
- MA4b-2 Complexity Analysis of MMSE Detector Architectures for MIMO OFDM Systems 10:40 AM  
*Markus Myllyla, Juha-Matti Hintikka, University of Oulu; Matti Limingoja, Aaron Byman, Elektrobitt Ltd.; Joseph Cavallaro, Markku Juntti, University of Oulu*
- MA4b-3 Reconfigurable Digital Architecture for the Validation of a DVB-S Link 11:05 AM  
*Andrea Del Re, Gian Carlo Cardarilli, Marco Re, University of Rome Tor Vergata; Francesco Iacomacci, Alenia Spazio*
- MA4b-4 A MIMO-OFDM Testbed for Wireless Local Area Networks 11:30 AM  
*Albert Guillen i Fabregas, University of South Australia; Maxime Guillaud, Dirk T. M. Slock, Giuseppe Caire, Eurecom Institute; Karine Gosse, Stephanie Rouquette, Alexandre Ribeiro Dias, Philippe Bernardin, Xavier Miet, Motorola; Jean-Marc Conrat, France Telecom; Yann Toutain, Antennessa; Alain Peden, Zaiqing Li, ENST Bretagne*

### Session MA5b Time-Varying Estimation

- MA5b-1 Time-Varying Autoregressive (TVAR) Adaptive Order and Spectrum Estimation 10:15 AM  
*Yuri Abramovich, Defence Science and Technology Organisation; Nicholas Spencer, CSSIP; Michael Turley, Defence Science and Technology Organisation*
- MA5b-2 Multiple Target Tracking With Constrained Motion Using Particle Filtering Methods 10:40 AM  
*Ioannis Kyriakides, Darryl Morrell, Antonia Papandreou-Suppappola, Arizona State University*
- MA5b-3 A Multi-Channel Combiner with Carrier-Offset Tracking 11:05 AM  
*Eric Long, Zeta Associates, Inc.; Bart Rice, Rincon Research Corporation*
- MA5b-4 Reconfigurable Bayesian Networks for Hierarchical Multi-Stage Situation Assessment in Battlespace 11:30 AM  
*Famoush Mirmoeini, Vikram Krishnamurthy, University of British Columbia*

### Session MA6b CDMA Techniques

- MA6b-1 Common and Dedicated Pilot-Based Channel Estimates Combining and Kalman Filtering for WCDMA Terminals 10:15 AM  
*Ahmet Bastug, Giuseppe Montalbano, Philips Semiconductors; Dirk T. M. Slock, Eurecom Institute*



MA6b-2	On the Bit Error Probability in CDMA Channels with Correlated Binary Data: Bounds and Optimal Sequences <i>Clemens Schnurr, TU-Berlin; Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications</i>	10:40 AM
MA6b-3	Model-Averaged RAKE Receivers for Direct-Sequence Spread-Spectrum Systems <i>Yngve Selen, Uppsala University; Erik G. Larsson, Royal Institute of Technology (KTH)</i>	11:05 AM
MA6b-4	A New Multicarrier CDMA System Exploiting Frequency-Time Diversities <i>Huahui Wang, Qi Ling, Tongtong Li, Michigan State University</i>	11:30 AM

### Session MA7b MIMO Capacity

MA7b-1	Capacity optimization for Rician correlated MIMO wireless channels <i>Mai Vu, Arogyaswami Paulraj, Stanford University</i>	10:15 AM
MA7b-2	Capacity of Volume Limited Current Distributions <i>Sandeep Krishnamurthy, Brian Hughes, North Carolina State University</i>	10:40 AM
MA7b-3	A Framework for MIMO Capacity Bounds Based on the Cramer-Rao Bound on the Channel Estimation Error <i>Thomas Svantesson, ArrayComm; Bhaskar Rao, University of California, San Diego</i>	11:05 AM
MA7b-4	Analytical Mutual Information Distribution and Delay-Limited Capacity for Spatially Correlated Multiple-Antenna Systems <i>Tharmalingam Ratnarajah, Queen's University of Belfast</i>	11:30 AM

### Session MP1 UWB

MP1-1	Capacity-approaching transceiver design for asymmetric UWB links <i>Liuqing Yang, Jian Li, University of Florida</i>	1:30 PM
MP1-2	Data Detection Performance of an MTR-UWB Receiver in the Presence of Timing Errors <i>Brian Sadler, Army Research Laboratory; Zhengyuan Xu, University of California, Riverside</i>	1:55 PM
MP1-3	A parametric analytical diffusion model for indoor ultra-wideband received signal <i>Majid Nemati, Robert Scholtz, University of Southern California</i>	2:20 PM
MP1-4	Quantized UWB Transmitted Reference Systems <i>Stefan Franz, Urbashi Mitra, University of Southern California</i>	2:45 PM
	BREAK	3:10 PM
MP1-5	IIR Ultra-Wideband Pulse Shaper Design <i>Chun-Yang Chen, P. P. Vaidyanathan, California Institute of Technology</i>	3:30 PM

MP1-6	Narrowband Interference Mitigation for Differential UWB Systems <i>Klaus Witrisal, Johannes D. Alesseged, Graz University of Technology</i>	3:55 PM
MP1-7	A Scalable UWB Based Scheme for Localization in Wireless Networks <i>Ananth Subramanian, Joo Ghee Lim, Institute for Infocomm Research</i>	4:20 PM
MP1-8	Multiscale Wireless Communications Using Compactly-Parametrized Wavelets <i>Giridhar Mandyam, Nokia, Inc.</i>	4:45 PM

### Session MP2 Sensor Networks

MP2-1	Sensor Networks under Regulatory Power Constraints <i>Michael Gastpar, University of California, Berkeley</i>	1:30 PM
MP2-2	A Cross-Layer Approach to Cognitive MAC for Spectrum Agility <i>Qing Zhao, University of California, Davis; Lang Tong, Cornell University; Ananthram Swami, Army Research Laboratory</i>	1:55 PM
MP2-3	Distributed Range Difference Based Target Localization in Sensor Network <i>Chartchai Meesookho, Shrikanth Narayanan, University of Southern California</i>	2:20 PM
MP2-4	Channel Estimation and Carrier Offset Control for Cooperative MIMO Sensor Networks <i>Ronald A. Iltis, University of California, Santa Barbara; Richard Cagley, Toyon Research Corporation</i>	2:45 PM
	BREAK	3:10 PM
MP2-5	Bandwidth-Constrained MAP Estimation for Wireless Sensor Networks <i>Syed Faisal Shah, Alejandro Ribeiro, Georgios B. Giannakis, University of Minnesota</i>	3:30 PM
MP2-6	Semidefinite Programming Algorithms for Sensor Network Localization using Angle Information <i>Pratik Biswas, Hamid Aghajan, Yinyu Ye, Stanford University</i>	3:55 PM
MP2-7	Game Theoretic Optimal Transmission Strategies in Multipacket Reception Sensor Networks <i>Minh Hanh Ngo, Vikram Krishnamurthy, University of British Columbia</i>	4:20 PM
MP2-8	Distributed Detection in Sensor Networks: Connectivity Graph and Small World Networks <i>Saeed Aldosari, Jose Moura, Carnegie Mellon University</i>	4:45 PM

### Session MP3      **Advanced Signal Processing Algorithms**

MP3-1	Achieving the Entire Slepian-Wolf Rate Region Using Syndrome Formers and Inverse Syndrome Formers <i>Peiyu Tan, Jing Li, Lehigh University</i>	1:30 PM
MP3-2	Optimization under Unitary Matrix Constraint using Approximate Matrix Exponential <i>Traian Abrudan, Jan Eriksson, Visa Koivunen, Helsinki University of Technology</i>	1:55 PM
MP3-3	Kolmogorov Complexity of Signals with Finite Rate of Innovation <i>Subhas Ghosh, Viswanath Ganapathy, Chandrashekhara Thejaswi, Ranjeet Patro, Honeywell</i>	2:20 PM
MP3-4	On the Unimodality of Deflation based Fast ICA Contrast <i>Malay Gupta, Balu Santhanam, University of New Mexico</i>	2:45 PM
	BREAK	3:10 PM
MP3-5	Reversible Integer-to-Integer Wavelet Transforms With Improved Approximation Properties <i>Peter van Vugt, Michael Adams, University of Victoria</i>	3:30 PM
MP3-6	New Fast Fourier Transform with Linear Multiplicative Complexity <i>Sos Aгаian, Okan Caglayan, University of Texas, San Antonio</i>	3:55 PM
MP3-7	Frequency Estimation of 2-D Sinusoids from Very Limited Data <i>Jiong Wang, Yibin Zheng, University of Virginia</i>	4:20 PM
MP3-8	The Spectral Products Created by Nonlinear Intersymbol Interference in NRZ Data <i>Jeffrey Coleman, Naval Research Laboratory</i>	4:45 PM

### Session MP4      **Biomedical Signal and Image Processing**

MP4-1	Automated Affine Registration of First-Pass Magnetic Resonance Images <i>Robert Janiczek, Andrew Gilliam, Pat Antkowiak, Scott Acton, Frederick Epstein, University of Virginia</i>	1:30 PM
MP4-2	A Hierarchical Bayesian Formulation for Diffuse Optical Tomography with a priori Anatomical Information <i>Murat Guven, Birsen Yazici, Xavier Intes, Rensselaer Polytechnic Institute; Britton Chance, University of Pennsylvania</i>	1:55 PM
MP4-3	Range Super Resolution For Near-field Narrow Band Coherent Imaging <i>Wei Huang, Yibin Zheng, University of Virginia</i>	2:20 PM
MP4-4	Embedded Image Coding Using Zerotrees of Wavelet Coefficients for Visible Human Dataset <i>Yi Mu, Adel Lotfy Ali, Beddhu Murali, University of Southern Mississippi</i>	2:45 PM

BREAK 3:10 PM

MP4-5	Multi-Assignment Interacting Multiple Model for Tracking Micro-bubbles <i>Bing Li, Peter Tay, Scott Acton, University of Virginia</i>	3:30 PM
MP4-6	Multi-Static Adaptive Microwave Imaging for Early Breast Cancer Detection <i>Yao Xie, Bin Guo, Luzhou Xu, Jian Li, University of Florida; Peter Stoica, Uppsala University</i>	3:55 PM
MP4-7	Time Reversal Based Microwave Hyperthermia Treatment of Breast Cancer <i>Bin Guo, Luzhou Xu, Jian Li, University of Florida</i>	4:20 PM
MP4-8	Object Identification by Marked Point Process <i>Gang Dong, Scott Acton, University of Virginia</i>	4:45 PM

### Session MP5      **Speech and Audio**

MP5-1	Speech Enhancement Using Perceptual Wavelet Thresholding with the Ephraim and Malah Noise Suppressor and Auditory Masking <i>Ashish Parajuli, Victor DeBrunner, University of Oklahoma</i>	1:30 PM
MP5-2	Voice Source Modeling for Accurate Speech Analysis <i>M. Shahidur Rahman, Tetsuya Shimamura, Saitama University</i>	1:55 PM
MP5-3	Multiple Description Coding and Path Diversity for Voice Communication over MANETs <i>Jagadeesh Balam, Jerry D. Gibson, University of California, Santa Barbara</i>	2:20 PM
MP5-4	Reducing Audio Noise Using Spectrogram Random Textures <i>Ramin Samadani, HP Labs</i>	2:45 PM
	BREAK	3:10 PM
MP5-5	Scalable Perceptual Metric for Evaluating Audio Quality <i>Rahul Vanam, Charles Creusere, New Mexico State University</i>	3:30 PM
MP5-6	Sound Classification Based on Probabilistic SVM and MPEG-7 Audio Feature <i>Jia-Ching Wang, National Cheng Kung University</i>	3:55 PM
MP5-7	Optimization of the Bass Management Filter Parameters for Multichannel Audio Applications <i>Sunil Bharitkar, Chris Kyriakakis, Audyssey Labs, Inc. &amp; University of Southern California</i>	4:20 PM
MP5-8	A Comparison Between Bass Management Parameter Selection Techniques for Multichannel and Multi-position Room Equalization <i>Sunil Bharitkar, Chris Kyriakakis, Audyssey Labs, Inc. &amp; University of Southern California</i>	4:45 PM

## Session MP6 Adaptive Systems

MP6-1	A Statistical Convergence Analysis of the FastICA Algorithm for Two-Source Mixtures <i>Scott Douglas, Southern Methodist University</i>	1:30 PM
MP6-2	Adaptive Connection Algorithms for a Reconfigurable Photonic Switch <i>Taehyuk Kang, John Shynk, University of California, Santa Barbara</i>	1:55 PM
MP6-3	A Modified Volterra-Wiener-Hammerstein Model for Loudspeaker Precompensation <i>Khosrow Lashkari, DoCoMo Communications Labs USA</i>	2:20 PM
MP6-4	Time-Delay Set-Selection <i>William Clarkson, Dale Joachim, Tulane University</i>	2:45 PM
	BREAK	3:10 PM
MP6-5	Robust Optimization Strategies for Adaptive Filters Operating with Fixed and Transient Hardware Errors <i>Siddharth Pal, W. Kenneth Jenkins, Pennsylvania State University</i>	3:30 PM
MP6-6	Low Cost Parallel Adaptive Filter Structures <i>Chao Cheng, Keshab K. Parhi, University of Minnesota</i>	3:55 PM
MP6-7	Exploiting Signal Subspaces to Reduce Mean-Squared Error in Subband Adaptive Filtering <i>Jake Gunther, Tamal Bose, Wang Song, Utah State University</i>	4:20 PM
MP6-8	Hybrid FIR-IIR Adaptive Echo Canceller for Wireline Applications <i>Ahmed Shalash, Analog Devices</i>	4:45 PM

## Session MP7 MIMO Feedback Communications

MP7-1	Spatial Transmit Prefiltering for Frequency-Flat MIMO Transmission with Mean and Covariance Information <i>Ruben de Francisco, Dirk T. M. Slock, Eurecom Institute</i>	1:30 PM
MP7-2	Codebook Adaptation for Quantized MIMO Beamforming Systems <i>Roopsha Samanta, Robert W. Heath, Jr., University of Texas, Austin</i>	1:55 PM
MP7-3	Algorithms for Quantized Precoded MIMO-OFDM Systems <i>Bishwarup Mondal, Robert W. Heath, Jr., University of Texas, Austin</i>	2:20 PM
MP7-4	Echo-MIMO: a Two-Way Channel Training Method for Matched Cooperative Beamforming <i>Robert Taylor, Lang Withers, MITRE Corporation</i>	2:45 PM
	BREAK	3:10 PM
MP7-5	Capacity Optimization and Precoding on MIMO Channels with Covariance Feedback <i>Jianqi Wang, Michael D. Zoltowski, Purdue University</i>	3:30 PM

MP7-6	Robust Design of Linear MIMO Transceiver for Low SNR <i>Xi Zhang, Royal Institute of Technology (KTH); Daniel P. Palomar, Princeton University; Bjorn Ottersten, Royal Institute of Technology (KTH)</i>	3:55 PM
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MP7-7	Space-Time Constellations for Partial Receiver CSI Based on Code Combination <i>Jochen Giese, Mikael Skoglund, Royal Institute of Technology (KTH)</i>	4:20 PM
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MP7-8	Performance Analysis of Random Vector Quantization Limited Feedback Beamforming <i>Chun Kin Au Yeung, David J. Love, Purdue University</i>	4:45 PM
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## Session MP8a1 Communication Over Non-Ideal Channels (Poster)

MP8a1-1	Decoding of Product Codes Use of Annealed Max-Log-MAP Algorithm <i>Ebrahim Karami, Iran Telecommunication Research Center</i>
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MP8a1-2	A New UMTS TDD Burst Structure With a Semi-Blind Equalisation Scheme <i>Mahmoud Hadeif, Stephan Weiss, University of Southampton</i>
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MP8a1-3	Blind Identification of Series-Cascade Nonlinear Channels <i>Alain Kibangou, Gerard Favier, Laboratoire I3S/ CNRS/ UNSA</i>
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MP8a1-4	A wavelet transform approach to the design of complementary sequences for communications <i>Todor Cooklev, San Francisco State University</i>
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MP8a1-5	Comparison and Experimental Verification of Two Low-complex Digital Predistortion Methods <i>Mei Yen Cheong, Helsinki University of Technology; Ernst Aschbacher, Peter Brunnmayr, Markus Rupp, Vienna University of Technology; Timo Laakso, Helsinki University of Technology</i>
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MP8a1-6	Performance of Decentralized Detection in a Resource-constrained Sensor Network with Non-orthogonal Communications <i>Kossai Al Tarazi, Sudharman Jayaweera, Aravinthan Visvakumar, Wichita State University</i>
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MP8a1-7	Pulse Shaping for RF Communications in Wireless Sensor Networks <i>Louise Crockett, Neil MacEwen, Eugen Pfann, Robert Stewart, University of Strathclyde</i>
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MP8a1-8	Symbol Synchronisation Implementation for Low-Power RF Communication in Wireless Sensor Networks <i>Neil MacEwen, Louise Crockett, Eugen Pfann, Robert Stewart, University of Strathclyde</i>
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MP8a1-9	Source Localization from Moving Arrays of Sensors <i>Todd Moon, David Keller, Utah State University</i>
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- MP8a1-10 Channel Equalization for STBC-Encoded Cooperative Transmissions with Asynchronous Transmitters  
*Xiaohua Li, Fan Ng, Jui-Te Hwu, Mo Chen, State University of New York at Binghamton*
- MP8a1-11 Turbo Coded CDMA in Fading Cooperative Channels  
*Ebrahim Karami, Iran Telecommunication Research Center*
- MP8a1-12 Multi-User MIMO Channel Estimation in the Presence of Carrier Frequency Offsets  
*Malte Schellmann, Fraunhofer Institute for Telecommunications HHI; Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications*

## Session MP8a2 Multiuser Wireless Systems (Poster)

- MP8a2-1 Blind Adaptive Successive Interference Cancellation using Code-Constrained Constant Modulus Algorithms and Iterative Detection in Multipath Channels  
*Rodrigo de Lamare, Raimundo Sampaio-Neto, Pontifical Catholic University of Rio de Janeiro*
- MP8a2-2 Linear MMSE Receivers for Random CDMA in Wireless Networks With Equal Transmit Powers.  
*Siddharta Govindasamy, David H. Staelin, Massachusetts Institute of Technology*
- MP8a2-3 Reverse Link Inter-cell Interference Analysis for Cellular CDMA Systems with Random Power Disparity  
*Hong Nie, Cape Breton University*
- MP8a2-4 Transmit Filters Optimization and Receiver Architectures for Multi-Input-Multi-Output Channels  
*Mohammed Nafie, Cairo University; Ahmed Shalash, Analog Devices*
- MP8a2-5 Joint Packet Scheduling and Channel Allocation for Wireless Communications  
*Liu Liu, Zhengyuan Xu, University of California, Riverside*
- MP8a2-6 Spectrum Shaping Using Weighted Code-Hopping CDMA  
*Ali Saidi, MITRE Corporation*
- MP8a2-7 Performance Analysis of Cooperative Random Access with Long PN Spreading Codes  
*Xin Wang, Yingqun Yu, Alejandro Ribeiro, University of Minnesota*
- MP8a2-8 On the Transmit Power Assignment in Multicarrier-DS-CDMA Systems  
*Catalin Lacatus, Paul Cota, University of Texas, San Antonio*
- MP8a2-9 Ergodic Spectral Efficiency of Randomly-Spread CDMA with Linear Multiuser Receivers over GWSSUS Fading Channels  
*Ozgur Ertug, Middle East Technical University*
- MP8a2-10 Doubly selective channel estimation for OFDM systems  
*Changyong Shin, Edward J. Powers, University of Texas, Austin*
- MP8a2-11 Improved OFDM Channel Estimation using Inter-Packet Information  
*Dengwei Fu, Celestial Semiconductor*

- MP8a2-12 Cyclic Delay Diversity for Single Carrier-Cyclic Prefix Systems  
*Wing Seng Leon, Ying-Chang Liang, Changlong Xu, Institute for Infocomm Research*
- MP8a2-13 Dynamic Adaptive DMT - A Framework for Increased Connection Stability  
*Stefan Edinger, Carsten Bauer, Norbert J. Fliege, University of Mannheim*
- MP8a2-14 Cooperative STBC-OFDM Transmissions with Imperfect Synchronization in Time and Frequency  
*Fan Ng, Xiaohua Li, State University of New York at Binghamton*

## Session MP8b Signal Processing Applications (Poster)

- MP8b-1 Wireless Hearing Aids System Simulation  
*Bin Tang, Hari Krishna Garg, Liang Zhang, National University of Singapore; Ram Singh Rana, Institute of Microelectronics*
- MP8b-2 The performance of the fixed-point least mean kurtosis and noisy inputs  
*Junibakti Sanubari, Satya Wacana University*
- MP8b-3 Filter Bank Design for Minimizing Mean-Squared Estimation Error in Subband Adaptive Filtering  
*Jake Gunther, Tamal Bose, Wang Song, Utah State University*
- MP8b-4 Speech Enhancement Using a Technique of Adaptive Bias Suppression  
*Hirobumi Tanaka, Tetsuya Shimamura, Saitama University*
- MP8b-5 Endothelial Cell Image Enhancement using Directional Filter Banks  
*Mohammad Khan, Khalid Khan, Aurangzeb Khan, COMSATS Institute of Information Technology*
- MP8b-6 Data-Pattern Discovery Methods for Detection in Nongaussian High-Dimensional Data Sets  
*Cecile Levasseur, Kenneth Kreutz-Delgado, University of California, San Diego*
- MP8b-7 An Affine Projection Adaptive Filtering Approach to Superresolution Restoration of Image Sequences  
*John Norris, Scott Douglas, Southern Methodist University*
- MP8b-8 A Genetic Algorithm Feature Selection Approach to Robust Classification between Positive and Negative Emotional Speakers State  
*Francesco Beritelli, Salvatore Casale, Universit degli Studi di Catania; Alessandra Russo, Salvatore Serrano, Universita' degli Studi di Catania*
- MP8b-9 Channel Modeling and Performance Analysis in Watermarking  
*Harsh Shah, Aria Nosratinia, University of Texas, Dallas*

MP8b-10	Signature Verificaiton using Velocity-Selective Directional Filter Banks <i>Mohammad Khan, Khalid Khan, Aurangzeb Khan, COMSATS Institute of Information Technology</i>	
MP8b-11	Geometrical Feature Extraction for Robust Speech Recognition <i>Xiaokun Li, Chiman Kwan, Intelligent Automation, Inc.</i>	
MP8b-12	Multiple Description Conjugate Vector Quantizers with Side Distortion Compensation <i>Yugang Zhou, Geoffrey Chan, Queen's University</i>	
MP8b-13	Coherent Change Detection for Multi-Polarization SAR <i>Leslie Novak, BAE Systems</i>	
MP8b-14	Multi-sensor tracking of a vehicle on a grid,-II <i>Dave Sworder, University of California, San Diego; John Boyd, Cubic Corp; Gary Hutchins, NPS; Robert Elliott, University of Calgary</i>	

### Session TA1 Coding and Modulations

TA1-1	Parallel Implementation of a Soft Output Sphere Decoder <i>Joakim Jalden, Bjorn Ottersten, Royal Institute of Technology (KTH)</i>	8:30 AM
TA1-2	A Hybrid Early Decision-Probability Propagation Decoding Algorithm for Low-Density Parity-Check Codes <i>Anton Blad, Oscar Gustafsson, Lars Wanhammar, Linkoping University</i>	8:55 AM
TA1-3	Optimized Message Passing Schedules for LDPC Decoding <i>Predrag Radosavljevic, Joseph R. Cavallaro, Alexandre de Baynast, Rice University</i>	9:20 AM
TA1-4	Improvements on Accelerating Iterative Decoding Using Eigenmessages <i>Todd Moon, John Crockett, Jacob Gunther, Utah State University</i>	9:45 AM
	BREAK	10:10 AM
TA1-5	Modulation and Code Mapping Scheme for High Rate Transmission in 868MHz <i>Manjeet Singh, Zhongding Lei, Francois Chin, Yuen Sam Kwok, Institute for Infocomm Research</i>	10:30 AM
TA1-6	Performance of Turbo-Codes on Nakagami Flat Fading (Radio) Transmission Channels <i>Horia Balta, Maria Kovaci, University Politehnica of Timisoara; Alexandre de Baynast, Rice University</i>	10:55 AM
TA1-7	Turbo Product Code for Flat-Fading Channels with Pulse Jamming <i>Changlong Xu, Wing Seng Leon, Ying-Chang Liang, Institute for Infocomm Research</i>	11:20 AM
TA1-8	On Duobinary Turbo Codes for Block Fading Channels. <i>Erik Stauffer, Djordje Tujkovic, Arogyaswami Paulraj, Stanford University</i>	11:45 AM

### Session TA2 Feedback Communications

TA2-1	A robust transmit CSI framework with applications in MIMO wireless precoding <i>Mai Vu, Arogyaswami Paulraj, Stanford University</i>	8:30 AM
TA2-2	Low Complexity User Selection Algorithms for Multiuser MIMO Systems with Block Diagonalization <i>Zukang Shen, Runhua Chen, Jeffrey Andrews, Robert W. Heath, Jr., Brian Evans, University of Texas, Austin</i>	8:55 AM
TA2-3	On the Expected Rate of Slowly Fading Channels with Quantized Side Information <i>Thanh Tung Kim, Mikael Skoglund, Royal Institute of Technology (KTH)</i>	9:20 AM
TA2-4	Throughput Maximization In Wireless Multiple Antenna Communication Systems Through Quantized Rate Control <i>Mohammad Ali Khojastepour, Xiaodong Wang, Mohammad Madhian, NEC Laboratories America, Inc.</i>	9:45 AM
	BREAK	10:10 AM
TA2-5	Precoding with Known Interference Structure at Receiver <i>Bin Liu, Hui Liu, Sumit Roy, University of Washington</i>	10:30 AM
TA2-6	Opportunistic Beamforming with Limited Feedback <i>Shahab Sanayei, Aria Nosratinia, University of Texas, Dallas</i>	10:55 AM
TA2-7	SIMO precoding techniques for polarization mode dispersion <i>Zhenyu Zhu, Lehigh University; Hamid Sadjadpour, University of California, Santa Cruz; Rick Blum, Lehigh University; Peter Andrekson, Chalmers University of Technology; Jing Li, Lehigh University</i>	11:20 AM
TA2-8	On Coding With a Partial Knowledge of the State Information <i>Abdellatif Zaidi, Pierre Duhamel, LSS/CNRS</i>	11:45 AM

### Session TA3a Signal Processing for Wireless Communications

TA3a-1	Waveform Shaping for Time Reversal Interference Cancellation: A Time Domain Approach <i>Jose Moura, Yuanwei Jin, Jimmy Zhu, Yi Jiang, Dan Stancil, Ahmet Cepen, Carnegie Mellon University</i>	8:30 AM
TA3a-2	Component-Wise Conditionally Unbiased Bayesian Parameter Estimation: General Concept and Applications to Kalman Filtering and LMMSE Channel Estimation <i>Mahdi Triki, Dirk T. M. Slock, Eurecom Institute</i>	8:55 AM
TA3a-3	Multistage MMSE-DFD Receiver for Ultra-Wide Bandwidth Impulse Radio <i>Chia-Chang Hu, Yong-Sheng Cheng, National Chung Cheng University</i>	9:20 AM

TA3a-4 An Iterative Interference Canceller for Serially Concatenated Continuous Phase Modulation 9:45 AM  
*Michael Anderson, Australian National University; Mark Reed, National ICT Australia; Gerard Borg, Australian National University*

### Session TA3b Signal Processing for UWB/OFDM

TA3b-1 Low Complexity Iterative Method of Equalization for OFDM in Time Varying Channels 10:30 AM  
*Sajid Ahmed, Mathini Sellathurai, Jonathon Chambers, Cardiff University*

TA3b-2 Analysis of Decision-Feedback Based Broadband OFDM Systems 10:55 AM  
*Alexandre de Baynast, Ashutosh Sabharwal, Behnaam Aazhang, Rice University*

TA3b-3 Blind Equalization in OFDM Systems Exploiting Guard Interval Redundancy 11:20 AM  
*Faisal O. Alayyan, Curtin University of Technology; Karim Abed-Meraim, Telecom Paris; Abdelhak M Zoubir, Darmstadt University of Technology*

TA3b-4 Rapid Timing Acquisition Scheme for UWB signals 11:45 AM  
*Jiachi Wang, Huazhong University of Science and Technology*

### Session TA4 Decoder Architectures

TA4-1 Error-Free Arithmetic and Architecture for H.264 8:30 AM  
*Khan Wahid, Vassil Dimitrov, Wael Badawy, Graham Jullien, University of Calgary*

TA4-2 VLSI Design for High-Speed Sparse Parity-Check Matrix Decoders 8:55 AM  
*Mohammad Mansour, American University of Beirut*

TA4-3 Stochastic Implementation of LDPC Decoders 9:20 AM  
*Warren Gross, McGill University; Vincent Gaudet, Aaron Milner, University of Alberta*

TA4-4 A Reconfigurable Architecture and Associated CAD Algorithm for Multirate LDPC Decoding 9:45 AM  
*Marghoob Mohiyuddin, University of California, Berkeley; Amit Prakash, Microsoft; Xiang Wu, Adnan Aziz, University of Texas, Austin*

BREAK 10:10 AM

TA4-5 Design and implementation of LDPC codes for DVB-S2 10:30 AM  
*Manoj Yadav, Keshab K. Parhi, University of Minnesota*

TA4-6 A Memory Efficient Partially Parallel Decoder Architecture for QC-LDPC Codes 10:55 AM  
*Zhongfeng Wang, Zhiqiang Cui, Oregon State University*

TA4-7 FPGA Implementation of Viterbi decoders for MIMO-BICM 11:20 AM

*Simon Haene, Andreas Burg, David Perels, Peter Luethi, Norbert Felber, Wolfgang Fichtner, ETH Zurich*

TA4-8 Implementing Soft Decision Viterbi Decoder - A Novel Approach 11:45 AM

*Subham Roy Choudhury, Ravindra Kumar Singh, Motilal Nehru National Institute Of Technology; Manoj Jain, Bharat Electronics Limited*

### Session TA5 Video and Applications

TA5-1 Perceptual Video Coding with H.264 8:30 AM  
*Koohyar Minoos, Truong Nguyen, University of California, San Diego*

TA5-2 Intra-Mode Indexed Nonuniform Quantization Parameter Matrices in AVC/H.264 8:55 AM  
*Jing Hu, Jerry D. Gibson, University of California, Santa Barbara*

TA5-3 Optimal Motion Compensation for Low Bit Rate Wavelet Based Error Frame Coding 9:20 AM  
*Lorenzo Cappellari, University of Padova; Truong Nguyen, University of California, San Diego*

TA5-4 Motion Estimation at the Decoder Using Maximum Likelihood Techniques for Distributed Video Coding 9:45 AM  
*Ivy Tseng, Antonio Ortega, University of Southern California*

BREAK 10:10 AM

TA5-5 Characterizing Chinese Ink Painting Styles based on Textons and Finite Mixture Models 10:30 AM  
*Xiqun Lu, Zhejiang University*

TA5-6 Hybrid particle filtering for real time object tracking 10:55 AM  
*Patrick Lanvin, Jean-Charles Noyer, Mohammed Benjelloun, Universite du Littoral Cote d'Opale; Mark Yeary, Yan Zhai, University of Oklahoma*

TA5-7 Adaptive Radar Detection of Extended Targets in Homogeneous Noise and Interference 11:20 AM  
*Francesco Bandiera, Universita' di Lecce; Antonio De Maio, Universita' di Napoli "Federico II"; Antonio Stefano Greco, Giuseppe Ricci, Universita' di Lecce*

TA5-8 LADAR Range Image Segmentation using Curve Evolution and ML Estimation 11:45 AM  
*Haihua Feng, MathWorks, Inc.; William Karl, David Castanon, Boston University*

### Session TA6 Adaptive Receivers

TA6-1 Unit Tap Constrained Adaptive Channel Shortening Equalization 8:30 AM  
*Richard Martin, Air Force Institute of Technology*

TA6-2 Aided Decision Feedback Equalization for Wired Communication 8:55 AM  
*Hossein Dehghan, Doradus Technologies*

- TA6-3 Adaptive Cancellation of Modulated Coherent Repeater Jammers 9:20 AM  
*Daniel Rabideau, MIT Lincoln Laboratory*
- TA6-4 Distributed Beamforming in Wireless Sensor Networks 9:45 AM  
*Murali Tummala, Chan Chee Wai, Patrick Vincent, Naval Postgraduate School*
- BREAK 10:10 AM
- TA6-5 A Multiple Antenna Cyclostationary Receiver for Aperiodic CDMA Signals 10:30 AM  
*Vishwanath Venkataraman, John Shynk, University of California, Santa Barbara; Richard Gooch, Applied Signal Technology, Inc.*
- TA6-6 Affine Projection Algorithm for Blind Multiuser Equalisation of Downlink DS-CDMA System 10:55 AM  
*Mahmoud Hadeif, Stephan Weiss, University of Southampton*
- TA6-7 An Adaptive Array Based on Composite and Null Despreaders for Multiple GPS Signals 11:20 AM  
*Suk-seung Hwang, John Shynk, University of California, Santa Barbara*
- TA6-8 Joint Space-Time Equalization and Multiuser Detection for High Data Rate Users in DS-CDMA Systems with Data Selective Adaptive Recurrent Neural Networks 11:45 AM  
*Rodrigo de Lamare, Raimundo Sampaio-Neto, Pontifical Catholic University of Rio de Janeiro*

### Session TA7 MIMO Detection Strategies

- TA7-1 Turbo-BLAST with Iterative Channel Estimation in a Correlated Fast Fading Channel 8:30 AM  
*Mark Reed, NICTA; Jayant Baliga, Melbourne University*
- TA7-2 Reduced Complexity MIMO MMSE-DFE 8:55 AM  
*Wen-Chih Kan, Gerald Sobelman, University of Minnesota*
- TA7-3 Rao-Blackwellized Gauss-Hermite Filter for Joint Frequency Offset and Channel Estimation for the MIMO-OFDM System 9:20 AM  
*Kyeong Jin Kim, Nokia Research Center; Ronald A. Iltis, University of California, Santa Barbara*
- TA7-4 Frequency Domain Joint-over-Antenna MIMO Turbo Equalization 9:45 AM  
*Juha Karjalainen, Kimmo Kansanen, Nenad Veselinovic, Tad Matsumoto, University of Oulu*
- BREAK 10:10 AM
- TA7-5 Hybrid Hard/Soft Interference Cancellation Based on List Viterbi Decoding 10:30 AM  
*Wanlun Zhao, Renqiu Wang, University of Minnesota*

- TA7-6 Joint Maximum Likelihood Estimation of Angular and Time-Delay MIMO Propagation Parameters 10:55 AM  
*Cassio Ribeiro, Andreas Richter, Visa Koivunen, Helsinki University of Technology*
- TA7-7 FIM Regularity for Gaussian Semi-Blind MIMO FIR Channel Estimation 11:20 AM  
*Aditya Jagannatham, Bhaskar Rao, University of California, San Diego*
- TA7-8 Non-Coherent Receivers for Space-Time CPM 11:45 AM  
*Tarkesh Pande, Heon Huh, James V. Krogmeier, Purdue University*

### Session TA8a1 Audio, Video, and Image Processing (Poster)

- TA8a1-1 Iris Segmentation for Recognition using Local Statistics  
*Robert Ives, Lauren Kennell, Delores Etter, U.S. Naval Academy*
- TA8a1-2 Error Protection of Packetized SPIHT Bit Streams for Image Transmission Over Noisy Channels  
*Y. Sriraja, Tanja Karp, Texas Tech University*
- TA8a1-3 A Novel Approach to Approximate Kullback-Leibler Distance Rate for Hidden Markov Models  
*Hongkang Liang, Richard Anderson-Sprecher, Robert Kubicek, University of Wyoming*
- TA8a1-4 Multi-State Video Coding with Side Information  
*Sila Ekmekci Flierl, Swiss Federal Institute of Technology (EPFL); Thomas Sikora, Technical University Berlin*
- TA8a1-5 Improved Bit Allocation for Transform Coding of Images  
*Patrick Kechichian, Denis Tran, Fabrice Labeau, McGill University*
- TA8a1-6 A Feature-based Image Normalization Technique for Handling Geometric Distortions  
*Mohamed Yasein, Panajotis Agathoklis, University of Victoria*
- TA8a1-7 All in-focus Photo image Creation by Wavelet Transform  
*Keiichiro Shirai, Masaaki Ikehara, Keio University*
- TA8a1-8 Sinuoidal Prediction for Waveform Coding  
*Wai Chu, DoCoMo Communications Labs USA*
- TA8a1-9 Room Impulse Response Shortening by Channel Shortening Concepts  
*Markus Kallinger, Alfred Mertins, University of Oldenburg*
- TA8a1-10 Lossless Adaptive Digital Audio Steganography  
*Sos Agaian, David Akopian, Sunil D'Souza, University of Texas, San Antonio*
- TA8a1-11 Multichannel Audio Modeling and Coding Using a Multiband Source/Filter Model  
*Kiki Karadimou, Athanasios Mouchtaris, Panagiotis Tsakalides, Foundation for Research and Technology-Hellas*

TA8a1-12 Quadratic-Inverse Expansion of the Rihaczek Distribution  
ISTRIBUTION  
*David J. Thomson, Queen's University*

### Session TA8a2 Communication Systems (Poster)

- TA8a2-1 Adaptive Power Allocation in MIMO-OFDM WLANs with Stochastic Channel Estimates  
*Irtiza Zaidi, Vikram Krishnamurthy, University of British Columbia*
- TA8a2-2 An Expand Search Strategy for DSSS Systems based on a Phase Estimator  
*Jiachi Wang, Huazhong University of Science and Technology*
- TA8a2-3 Low-Rank Multistage MMSE Receiver for MIMO DS-CDMA in Multipath  
*Sheng-Fu Wang, Chia-Chang Hu, National Chung Cheng University*
- TA8a2-4 Joint Blind Timing and Frequency Offset Estimation for MIMO-OFDM Systems over Spatially Correlated Fading Channels  
*Ronghong Mo, National University of Singapore*
- TA8a2-5 Systems with Constant Group Delay and Symmetric Impulse Response (CGDSIR)  
*David Baez-Lopez, Edgar Garcia-Trevio, Universidad de las Americas*
- TA8a2-6 On the Efficient Estimation of the Frequency-Offset of a Noisy Sinusoid  
*Shawn Hineline, Joseph Thomas, University of Maryland*
- TA8a2-7 Multitaper Wigner-Ville Spectrum for detecting dispersive signals from earthquake records  
*Germn A. Prieto, Frank Vernon, University of California, San Diego; David J. Thomson, Queen's University*
- TA8a2-8 Maximum Likelihood Restoration of Missing Samples in Sinusoidal Data  
*Theagenis Abatzoglou, Raytheon*
- TA8a2-9 A Canonical Representation of Negentropy based ICA Algorithm  
*Malay Gupta, Balu Santhanam, University of New Mexico*
- TA8a2-10 Distributed Sensor Censoring for Detection in Sensor Networks Under Communication Constraints  
*Ruixiang Jiang, Ying Lin, Biao Chen, Syracuse University; Bruce Suter, AFRL*
- TA8a2-11 Event-Region Estimation for Sensor Networks Under the Poisson Regime  
*Aleksandar Dogandzic, Benhong Zhang, Iowa State University*
- TA8a2-12 An Analytical Comparison of EXIT and Variance Transfer (VT) Tools for Iterative Decoder Analysis  
*David Shepherd, Mark Reed, Matt Ruan, Zhenming Shi, NICTA/ANU*
- TA8a2-13 Frequency-Domain Differential Modulation for Space-Time-Frequency Coded OFDM  
*Hongbin Li, Stevens Institute of Technology*

TA8a2-14 Improved Performance OFDM Exploiting Polarization  
*Shahriar Emami, Tino Corral, Gregg Rasor, Freescale Semiconductor, Inc.*

### Session TA8b Power Efficient Communication (Poster)

- TA8b-1 Measurement and Analyze of UWB Channel temporal Dispersion  
*Fabrcio Barros, Robson Vieira, Glucio Siqueira, Pontifical Catholic University of Rio de Janeiro*
- TA8b-2 Capacity of UWB M-ary 2-Orthogonal PPM Signals in AWGN and Multipath Channels  
*Fernando Ramirez-Mireles, Instituto Tecnologico Autonomo de Mexico (ITAM)*
- TA8b-3 Ultra-Wide Band Impulse Radio (UWB-IR) with SuperOrthogonal Turbo Codes (SOTC)  
*Usman Riaz, C.-C. Jay Kuo, University of Southern California*
- TA8b-4 A Fast Maximum Likely-hood DS-UWB Equalizer  
*Mohamed Kamoun, Laurent Mazet, Marc De Courville, Motorola; Pierre Duhamel, LSS/Supelec*
- TA8b-5 High-Throughput and Low-Power Architectures for Reed Solomon Decoder  
*Akash Kumar, Eindhoven University of Technology; Sergei Sawitzki, Philips Research Laboratories*
- TA8b-6 Comparison of Optimal (BCJR) and Suboptimal Detection on Fractionally-Sampled Data  
*Todd Moon, Jacob Gunther, Nisha Champanerias, Utah State University*
- TA8b-7 Signal Interception in Multiuser Tomlinson-Harashima Precoding  
*Frederick Lee, Oghenekome Oteri, Majid Emami, Stanford University*
- TA8b-8 Blind Joint Estimation of Channel and Direction of Arrival using Antenna Arrays in DS-CDMA Systems  
*Rodrigo de Lamare, Raimundo Sampaio-Neto, Pontifical Catholic University of Rio de Janeiro*
- TA8b-9 Improved PARAFAC based Blind MIMO system estimation  
*Yuanning Yu, Athina Petropulu, Drexel University*
- TA8b-10 Beamforming for Space-Time Coded IEEE 802.11n System with Known Fading Correlations  
*Huaning Niu, Chiu Ngo, Samsung Electronics*
- TA8b-11 Second-Order Statistics Based Minimal Transmit Redundancy Space-Time FIR Precoder-Blind Equalizer  
*Carrson Fung, Man-Wai Kwan, Chi-Wah Kok, Hong Kong University of Science and Technology*
- TA8b-12 Higher-Order Statistics Based Iterative Space-Time FIR Precoder-Blind Equalizer  
*Ning Yao, Man-Wai Kwan, Carrson Fung, Chi-Wah Kok, Hong Kong University of Science and Technology*
- TA8b-13 Distributed Canonical Correlations for Estimation with Reduced-Dimensionality Sensor Observations



<b>Session TP1</b>		<b>Relay Channels</b>		TP2-4	Fast Acquisition for Transmitted Reference Ultra-Wideband Systems with Channelized Receiver <i>Lei Feng, Won Namgoong, University of Southern California</i>	2:45 PM
TP1-1	On the Simple Relay Channel <i>Phani Vajapeyazula, Mahesh Varanasi, University of Colorado Boulder</i>	1:30 PM				
TP1-2	Optimal power allocation for parallel regenerative two-relayed wireless transmission <i>Ilhem Ouachani, Laboratoire des Signaux et Systemes - CNRS-France</i>	1:55 PM			BREAK	3:10 PM
TP1-3	On Superposition Coding Based Cooperative Diversity Schemes <i>Shuangqing Wei, Anil Goparaju, Louisiana State University; YouJian Liu, University of Colorado</i>	2:20 PM		TP2-5	Coarse Acquisition Performance of Spectral-Encoded UWB Communication Systems in the Presence of Narrow-Band Interference <i>Claudio da Silva, Laurence Milstein, University of California, San Diego</i>	3:30 PM
TP1-4	Efficient Demodulation in Cooperative Schemes Using Decode-and-Forward Relays <i>Tairan Wang, University of Minnesota; Alfonso Cano Pleite, Rey Juan Carlos University</i>	2:45 PM		TP2-6	No information? Delay estimation below the threshold SNR <i>Robert Weaver, University of Southern California</i>	3:55 PM
	BREAK	3:10 PM		TP2-7	Frame Synchronization of Coded Modulations in Channels with Uncertainties <i>Heon Huh, Tarkesh Pande, James V. Krogmeier, Purdue Univeristy</i>	4:20 PM
TP1-5	Multi-Source Cooperative Networks with Distributed Convolutional Coding <i>Renqiu Wang, Wanlun Zhao, Georgios B. Giannakis, University of Minnesota</i>	3:30 PM		TP2-8	A theoretical model of a voltage controlled oscillator <i>Yenming Chen, Robert Scholtz, University of Southern California</i>	4:45 PM
TP1-6	The Performance of Space-Time Coded Cooperative Diversity in a Cellular Uplink <i>Daryl Reynolds, Kanchan Vardhe, West Virginia University</i>	3:55 PM		<b>Session TP3 Applied Signal Processing</b>		
TP1-7	Opportunistic Cooperations: A New Communication Approach for MANETs <i>Renato M. de Moraes, Hamid Sadjadpour, J. J. Garcia-Luna-Aceves, University of California, Santa Cruz</i>	4:20 PM		TP3-1	High Speed and Low Chip Area Multiplication Using Fast Carry Skip Adder <i>Prem Sonkar, R. K. Singh, MNNIT, Allahabad</i>	1:30 PM
TP1-8	Spectral Efficient Signaling for Half-duplex Relay Channels <i>Boris Rankov, Armin Wittneben, ETH Zurich</i>	4:45 PM		TP3-2	Blind Correction of Gain and Timing Mismatches for a Two-Channel Time-Interleaved Analog-to-Digital Converter <i>Munkyo Seo, Mark Rodwell, Upamanyu Madhow, University of California, Santa Barbara</i>	1:55 PM
TP1-9	Cooperative Distributed Multiuser MMSE Relaying in Wireless Ad-Hoc Networks <i>Stefan Berger, Armin Wittneben, ETH Zurich</i>	5:10 PM		TP3-3	dynDCT: a dynamically adaptable integer DCT <i>Luca Bonardo, Maurizio Martina, Guido Masera, Andrea Molino, Fabrizio Vacca, Politecnico di Torino</i>	2:20 PM
<b>Session TP2</b>		<b>Synchronization</b>		TP3-4	Expected-Likelihood vs Maximum-Likelihood Estimation for Adaptive Detection with an Unconditional (Stochastic) Gaussian Interference Model <i>Yuri Abramovich, Defence Science and Technology Organisation; Nicholas Spencer, CSSIP; Alexei Gorokhov, Qualcomm Inc</i>	2:45 PM
TP2-1	Synchronization of Multiple Ultra-Wideband Piconets <i>Xiliang Luo, Georgios B. Giannakis, University of Minnesota</i>	1:30 PM			BREAK	3:10 PM
TP2-2	Synchronization and detection for transmitted reference UWB systems <i>Relja Djapic, Geert Leus, Alle-Jan van der Veen, Delft University of Technology</i>	1:55 PM		TP3-5	A Subspace Framework for Adaptive Radar Waveform Design <i>Benjamin Friedlander, University of California, Santa Cruz</i>	3:30 PM
TP2-3	On Subspace-based Blind Channel Estimation Algorithms for SFBC MC-CDMA systems <i>Shahrokh Nayeb Nazar, Ioannis Psaromiligkos, McGill University</i>	2:20 PM		TP3-6	A Novel Algorithm to Identify Air and Sea Targets in Coastal Radars <i>Javad Akhlaghi, Mehdi Malboubi, Mohammad Akhavan Saraf, Hamid Mir Mohammad Sadeghi, Information &amp; Communication Technology Institute</i>	3:55 PM

TP3-7	Multitaper covariance estimation and spectral denosing <i>Nurgun Erdol, Tuncay Gunes, Florida Atlantic University</i>	4:20 PM
TP3-8	A Centralized Control Algorithm for Target Tracking with UAVs <i>Pengcheng Zhan, David Casbeer, A. Lee Swindlehurst, Brigham Young University</i>	4:45 PM
TP3-9	Stochastic Sub-space Identification Methods for Bridges <i>Victor DeBrunner, Ping Wang, David Baldwin, Alessio Medda, Hieu Thai, University of Oklahoma</i>	5:10 PM

#### Session TP4 Computer Arithmetic

TP4-1	Representation of unit range numbers <i>Tomas Lang, University of California, Irvine; Javier Bruguera, University of Santiago de Compostela</i>	1:30 PM
TP4-2	Fast Addition Algorithm: Myth or Reality? <i>Vojin Oklobdzija, University of California, Davis</i>	1:55 PM
TP4-3	Simple seed architectures for reciprocal and inverse square root <i>Milos D. Ercegovic, University of California, Los Angeles; Jean-Michel Muller, Arnaud Tisserand, ENS Lyon</i>	2:20 PM
TP4-4	On the Design of an On-line Complex Matrix Inversion Unit <i>Robert McIlhenny, California State University, Northridge; Milos D. Ercegovic, University of California, Los Angeles</i>	2:45 PM
	BREAK	3:10 PM
TP4-5	Truncation Schemes for Recursive Multipliers <i>Pedram Mokrian, Kevin Biswas, Huapeng Wu, Majid Ahmadi, University of Windsor</i>	3:30 PM
TP4-6	A Small and Fast Leading One Predictor Corrector Circuit <i>Chris Hinds, David Lutz, ARM, Inc.</i>	3:55 PM
TP4-7	A parameterizable floating-point logarithm operator for FPGA <i>Jeremie Detrey, Florent de Dinechin, ENS Lyon</i>	4:20 PM
TP4-8	Pipelined carry lookahead adder design in quantum-dot cellular automata <i>Heumpil Cho, Earl E. Swartzlander, Jr., University of Texas, Austin</i>	4:45 PM
TP4-9	Parallelized very high radix scalable Montgomery multipliers <i>Kyle Kelley, David Harris, Harvey Mudd College</i>	5:10 PM

#### Session TP5 Source Coding

TP5-1	Rate-Adaptive Distributed Source Coding using Low-Density Parity-Check Codes <i>David Varodayan, Anne Aaron, Bernd Girod, Stanford University</i>	1:30 PM
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TP5-2	Reverse Engineering Vector Quantizers for Repartitioned Signal Spaces <i>Charles Creusere, Srivatsan Kandadai, New Mexico State University</i>	1:55 PM
TP5-3	Successive Refinability in the Wyner-Ziv Setting <i>Hanying Feng, Stanford University; Qian Zhao, Oracle, Inc.</i>	2:20 PM
TP5-4	Secure Arithmetic Coding Using Interval Splitting <i>Jiangtao (Gene) Wen, Mobilygen Corporation; Hyungjin Kim, John D. Villasenor, University of California, Los Angeles</i>	2:45 PM
	BREAK	3:10 PM
TP5-5	On Gauss mixture vector quantizers and Gabor wavelet classifiers for texture classification <i>Kyungsuk (Peter) Pyun, Hewlett-Packard Company; Johan Lim, Texas A&amp;M University; Chee Sun Won, Dongguk University; Robert M. Gray, Stanford University</i>	3:30 PM
TP5-6	Gauss Mixture Model Clustering for Noisy Images under Rate Constraints <i>Kivanc Ozonat, Stanford University</i>	3:55 PM
TP5-7	Characterizing and Estimating Block DCT Image Compression Quantization Parameters <i>Ramin Samadani, HP Labs</i>	4:20 PM
TP5-8	Receiver-Buffer-Driven Layered Quality Adaptation for Multimedia Streaming <i>Zhijin Wang, Chi-Wah Kok, Siu-Ping Chan, Hong Kong University of Science and Technology</i>	4:45 PM

#### Session TP6 Space Time Coding

TP6-1	Modified Orthogonal Space-Time Block Codes for Time-Selective Fading Channels <i>Gabriel Villardi, Yokohama National University; Giuseppe Abreu, University of Oulu; Ryuji Kohno, Yokohama National University</i>	1:30 PM
TP6-2	Space-Frequency Bit-Interleaved Coded Modulation for MIMO-OFDM <i>Erik Stauffer, Stanford University; Sumeet Sandhu, David B. Cheung, William Chimit, Keith Holt, Intel Corporation</i>	1:55 PM
TP6-3	Antenna Selection for Space-Time Coded Systems with Imperfect Channel Estimation <i>Qian Ma, Cihan Tepedelenlioglu, Arizona State University</i>	2:20 PM
TP6-4	Double Space-Time Transmit Diversity with Subgroup Rate Control for UMTS: Throughput Analysis <i>Christian Mehlfuehrer, Vienna University of Technology; Christoph Mecklenbraeucker, Telecommunications Research Center Vienna (ftw.); Markus Rupp, Vienna University of Technology</i>	2:45 PM

	BREAK	3:10 PM
TP6-5	Improved Space-Time Codes with Low-Complexity Decoders <i>Xinying Yu, Brian Hughes, North Carolina State University</i>	3:30 PM
TP6-6	Unitary Scrambling and Outer Code Design for MIMO Block Fading <i>Guosen Yue, NEC Laboratories America, Inc.; Xiaodong Wang, Columbia University</i>	3:55 PM
TP6-7	Capacity, BER and Coding Gain Analysis for Rate One QSTBC: A general approach <i>Aydin Sezgin, Oliver Henkel, Fraunhofer-Institute for Telecomm., HHI</i>	4:20 PM
TP6-8	GABBA Codes: Generalized Full-Rate Orthogonally Decodable Space-Time Block Codes <i>Giuseppe Abreu, University of Oulu</i>	4:45 PM

### Session TP7 Detection and Estimation

TP7-1	Generalization of Widely Linear Filtering Concepts for Equalization and Interference Suppression in PAM/QAM Systems <i>Kiran Kuchi, Nokia Research Center; Gian Paolo Mattellini, Nokia, Inc.; V. K. Prabhu, University of Texas, Arlington</i>	1:30 PM
TP7-2	Semi-blind channel estimation in HSDPA systems <i>Maarit Melvasalo, Visa Koivunen, Helsinki University of Technology</i>	1:55 PM
TP7-3	Time Reversal and Zero-Forcing Equalization for Fixed Wireless Access Channels <i>Persefoni Kyritsi, Stanford University; Peter Stoica, Uppsala University; George Papanicolaou, Stanford University; Patrick Eggers, Aalborg University; Alex Oprea, Waverider Communications</i>	2:20 PM
TP7-4	Robust Range-Rate Estimation of Passive Narrowband Sources in Shallow Water <i>Hailiang Tao, Jeffrey L. Krolik, Duke University</i>	2:45 PM
	BREAK	3:10 PM
TP7-5	Waveform Correlation and Optimization Issues for MIMO Radar <i>Keith Forsythe, Dan Bliss, MIT Lincoln Laboratory</i>	3:30 PM
TP7-6	The PAMF Detector is a Parametric Rao Test <i>Hongbin Li, Kwang June Sohn, Stevens Institute of Technology; Braham Himed, Air Force Research Laboratory</i>	3:55 PM
TP7-7	Beam-space Adaptive Channel Compensation for Sensor Arrays with Faulty Elements <i>Oguz R. Kazanci, Jeffrey L. Krolik, Duke University</i>	4:20 PM
TP7-8	Fixed-Point FastICA Algorithms for the Blind Separation of Complex-Valued Signal Mixtures <i>Scott Douglas, Southern Methodist University</i>	4:45 PM

TP7-9	A New Blind Adaptive Antenna Array for GNSS Interference Cancellation <i>Guillaume Carrie, Francois Vincent, ENSICA; Thierry Deloues, ONERA</i>	5:10 PM
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### Session TP8a Architecture and Implementation (Poster)

TP8a-1	Micro-Coded Programmable Solution for a Class of OFDM Applications <i>Michael Henneidy, Ahmed Shalash, Analog Devices</i>
TP8a-2	High Speed Bit-Parallel Word-Serial Normal Basis Finite Field Multiplier and Its FPGA Implementation <i>Ashkan Hosseinzadeh, Huapeng Wu, Majid Ahmadi, University of Windsor</i>
TP8a-3	Novel Rounding Techniques on the NEON Floating-Point Pipeline <i>David Lutz, Chris Hinds, ARM, Inc.</i>
TP8a-4	Optimization and Quantization Effects for Sine and Cosine Computation Using a Sum of Bit-Products <i>Oscar Gustafsson, Kenny Johansson, Lars Wanhammar, Linkoping University</i>
TP8a-5	DSP implementation of a low complexity motion detection algorithm <i>Paolo Bassignana, Maurizio Martina, Guido Masera, Andrea Molino, Fabrizio Vacca, Politecnico di Torino</i>
TP8a-6	A Configurable Application Specific Processor for Turbo Decoding <i>Pablo Ituero, Marisa Lopez-Vallejo, Universidad Politecnica de Madrid; Syed Aon Mujtaba, Agere Systems</i>
TP8a-7	Modular Multiplication of Large Integers on FPGA <i>Rachid Beguenane, Universite du Quebec a Chicoutumi; Jean-Luc Beuchat, Jean-Michel Muller, Projet Arenaire; Stephane Simard, Universite du Quebec a Chicoutimi</i>
TP8a-8	A Combined Interval and Floating-point Reciprocal Unit <i>Umud Kucukkabak, Ahmet Akkas, Koc University</i>
TP8a-9	Reduced Complexity Deblocking Filter for H.264 Video Coding <i>Kin-Hung Lam, Brian Evans, University of Texas, Austin</i>
TP8a-10	Fast Rescheduling of Multi-Rate Systems for HW/SW Partitioning Algorithms <i>Bastian Knerr, Martin Holzer, Markus Rupp, Inst. for Comm. and RF Engineering, TU Vienna</i>
TP8a-11	Superconducting Analog-to-Digital Conversion (ADC) for RF All-Digital Receiver (ADR) Applications <i>Anna Leese de Escobar, SPAWAR Systems Center San Diego; Shon Sloat, SAIC; Harper Whitehouse, Linear Measurements, Inc</i>

### Session TP8b Array Processing and Wireless Communications (Poster)

TP8b-1	Analysis of Fast Localization Algorithms for Acoustical Environments <i>J. Michael Peterson, Chris Kyriakakis, University of Southern California</i>
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TP8b-2	Avoiding Bias in Circular Arrays Using Optimal Beampattern Shaping and EADF <i>Fabio Belloni, Andreas Richter, Visa Koivunen, Helsinki University of Technology</i>
TP8b-3	High Resolution Full Aperture Processing in Data Limited Scenarios from Synthetically Extrapolating Temporal Data <i>Claudio Marino, Paul Chau, University of California, San Diego</i>
TP8b-4	A State-space Approach for Localizing Narrowband Sources Based on RELAX Method <i>Javad Mohammadpour Velni, University of Houston; Kash Khorasani, Concordia University</i>
TP8b-5	Using MIMO to Increase the Range of Wireless Systems <i>Benjamin Friedlander, University of California, Santa Cruz</i>
TP8b-6	Effects of Mutual Coupling on The Diversity Order of EGT Systems <i>Ebrahim Karami, Iran Telecommunication Research Center</i>
TP8b-7	Outage probability of EGC under cochannel interferers with arbitrary powers in Rayleigh fading <i>Juan Romero-Jerez, University of Malaga</i>
TP8b-8	Construction of Space-time Convolutional Codes with High Spectral Efficiency <i>Christopher Rouchy, Hamid Sadjadpour, University of California, Santa Cruz</i>
TP8b-9	LDPC-based Distributed Space Time Cooperative Systems with Non-regenerative Relays <i>Bo Dong, Lin Xie, Peiliang Qiu, Zhejiang University; Qinru Qiu, State University of New York at Binghamton</i>
TP8b-10	Downlink Sum-MSE Transceiver Optimization for Linear Multi-User MIMO Systems <i>Martin Schubert, Shuying Shi, Fraunhofer German-Sino Lab for Mobile Communications; Eduard A. Jorswieck, Fraunhofer Institute for Telecommunications HHI; Holger Boche, Fraunhofer MCI, HHI, TU Berlin</i>
TP8b-11	Unified PARAFAC Modeling for Multidimensional Wireless Communication Systems with Application to Blind Multiuser Equalization <i>Andre L. F. de Almeida, Gerard Favier, Laboratoire I3S/CNRS/UNSA; Joao Cesar Mota, Wireless Telecom Research Group (GTEL)</i>
TP8b-12	Blind Channel Estimation for MIMO Systems with Structured Transmit Delay Diversity <i>Qi Ling, Huahui Wang, Tongtong Li, Michigan State University</i>
TP8b-13	Sub-Band Cramer-Rao Bounds for Frequency-Selective Spectral Analysis <i>Niclas Sandgren, Peter Stoica, Uppsala University</i>
TP8b-14	SCCR LDPC Code for Ordered MIMO-OFDM Channels <i>Yuan Li, Ying Chang Liang, Sumei Sun, Institute for Infocomm Research; Rui Zhang, Stanford University</i>

## Session WA1 OFDM

WA1-1	Mobile Multiuser Access with MAI-free PMU-OFDM Transceiver Design <i>Layla Tadjpour, Shang-Ho Tsai, C.-C. Jay Kuo, University of Southern California</i>	8:30 AM
WA1-2	Exact Solution to Adaptive Subcarrier-and-Bit Allocation in Multiclass Multiuser OFDM System <i>Kainan Zhou, National University of Singapore; Yong Huat Chew, Institute for Infocomm Research</i>	8:55 AM
WA1-3	Performance Bounds in OFDM Channel Prediction <i>Ian Wong, Brian Evans, University of Texas, Austin</i>	9:20 AM
WA1-4	Analysis of Cyclic-Prefix Correlation Statistics and their Use in OFDM Timing and Frequency Synchronization <i>Brian Krongold, University of Melbourne</i>	9:45 AM
	BREAK	10:10 AM
WA1-5	Integration of Amplify and Forward Relays in an OFDM network <i>Klaus Doppler, Ari Hottinen, Nokia Research Center</i>	10:30 AM
WA1-6	Fast Active Constellation Extension for MIMO-OFDM PAR Reduction <i>Brian Krongold, University of Melbourne; Grace Woo, Douglas Jones, University of Illinois, Urbana-Champaign</i>	10:55 AM
WA1-7	An Efficient Timing and Frequency Offset Estimation in OFDM Systems <i>Heon Huh, James V. Krogmeier, Purdue univeristy</i>	11:20 AM
WA1-8	OFDM Receiver Design for Active Constellation Extension <i>Thomas Detwiler, Harris Corporation; Douglas Jones, University of Illinois, Urbana-Champaign</i>	11:45 AM

## Session WA2 MIMO and Multiple Access

WA2-1	Multiuser-MIMO Downlink TX-RX Design Based on SVD Channel Diagonalization and Multiuser Diversity <i>Komi Dawui, Dirk T. M. Slock, Eurecom Institute</i>	8:30 AM
WA2-2	Near-capacity MIMO Multiuser Precoding with QRD-M Algorithm <i>Jianzhong (Charlie) Zhang, Kyeong Jin Kim, Nokia Research Center</i>	8:55 AM
WA2-3	A Joint Pre-Coding and Scheduling Technique for Multi-User MIMO Systems <i>Feng Teng, Kamran Kiasaleh, University of Texas, Dallas</i>	9:20 AM
WA2-4	Multiuser Tomlinson-Harashima Precoding for Frequency Selective MIMO Channels <i>Frederick Lee, Majid Emami, Oghenekome Oteri, Arogyaswami Paulraj, Stanford University</i>	9:45 AM

	BREAK	10:10 AM
WA2-5	Capacity of Decode-and-forward Cooperative Links with full CSI <i>Aitor delCoso, Christian Ibars, Center for Telcomm. Technology of Catalunya (CTTC)</i>	10:30 AM
WA2-6	Limits of Multi-User Wireless Systems Using Multiple Antennas, Scheduling and Rate Feedback <i>Tharmalingam Ratnarajah, Queen's University of Belfast</i>	10:55 AM
WA2-7	On the Sum Rate of Multiple Antenna Broadcast Channels with Channel Imperfectness <i>Peilu Ding, David J. Love, Michael D. Zoltowski, Purdue University</i>	11:20 AM
WA2-8	Low Complexity Iterative Algorithm for Finding the MIMO-OFDM Broadcast Channel Sum Capacity <i>Marian Codreanu, Markku Juntti, Matti Latva-aho, University of Oulu</i>	11:45 AM

### Session WA3 Multi-Sensor Signal Processing

WA3-1	Distributed Compressed Sensing of Jointly Sparse Signals <i>Dror Baron, Marco Duarte, Shriram Sarvotham, Michael Wakin, Richard Baraniuk, Rice University</i>	8:30 AM
WA3-2	Acoustic Microsignature Evaluation: New Extraction Concepts <i>David Ohm, Vexcel Corporation; S. Lawrence Marple Jr., Oregon State University</i>	8:55 AM
WA3-3	Tracking with Sleepy Sensors <i>Venugopal Veeravalli, University of Illinois, Urbana-Champaign</i>	9:20 AM
WA3-4	Demonstration of Low-Noise Digital Beamforming Architecture Using an Experimental Microwave Digital Array <i>Daniel Rabideau, MIT Lincoln Laboratory</i>	9:45 AM
	BREAK	10:10 AM
WA3-5	Structural Results on Optimal Rate and Number of Clusters in Cluster based Cooperative MIMO Sensor Networks <i>Laxminarayana Pillutla, Vikram Krishnamurthy, University of British Columbia</i>	10:30 AM
WA3-6	Transform Covariance Differencing Method for Correlated Sources under Unknown Symmetric Toeplitz Noise <i>Nizar Tayem, Hyuck Kwon, Wichita State University</i>	10:55 AM
WA3-7	Collaborative Self-Localization Techniques for Wireless Image Sensor Networks <i>Huang Lee, Hamid Aghajan, Stanford University</i>	11:20 AM
WA3-8	Parametric Signal Estimation Using Sensor Networks in the Presence of Node Localization Errors <i>Aleksandar Dogandzic, Benhong Zhang, Iowa State University</i>	11:45 AM

### Session WA4 Wireless Systems

WA4-1	An explicit and unified error probability analysis of two detection schemes for differential unitary space-time modulation <i>Haichang Sui, James Zeidler, University of California, San Diego</i>	8:30 AM
WA4-2	A Universal Asymptotic Series for Error Rates over Fading Channels <i>James Rütcey, University of Washington</i>	8:55 AM
WA4-3	Indoor Spatial Correlation Measurements at 2.4 GHz <i>Leslie Wood, William Hodgkiss, University of California, San Diego</i>	9:20 AM
WA4-4	A Multi-user SC-FDE-MIMO System for Frequency-Selective Channels <i>Li Guo, Yih-Fang Huang, University of Notre Dame</i>	9:45 AM
	BREAK	10:10 AM
WA4-5	Power Control for Multi-antenna Gaussian Channels with Delayed Feedback <i>Devdutt Marathe, Srikrishna Bhashyam, Indian Institute of Technology Madras</i>	10:30 AM
WA4-6	Efficient Closed-Loop Schemes for MIMO WLAN <i>Xiyu Zheng, Yi Jiang, Jian Li, University of Florida</i>	10:55 AM
WA4-7	An Unequal Power Allocation Scheme for JPEG Transmission Over MIMO Systems <i>Muhammad Sabir, Robert W. Heath, Jr., Alan Bovik, University of Texas, Austin</i>	11:20 AM
WA4-8	On the optimal array and signal design in Multiple-Antenna Systems <i>Sandeep Krishnamurthy, Brian Hughes, North Carolina State University</i>	11:45 AM

### Session WA5a Low Power and FPGA

WA5a-1	Low-Power Multipliers with Data Wordlength Reduction <i>Kyungtae Han, Brian Evans, Earl E. Swartzlander, Jr., University of Texas, Austin</i>	8:30 AM
WA5a-2	Low Power and Low Leakage Implementation of RNS FIR Filters <i>Andrea Del Re, Gian Carlo Cardarilli, Marco Re, University of Rome Tor Vergata; Alberto Nannarelli, Technical University, Denmark</i>	8:55 AM
WA5a-3	FPGA Implementation of Matrix Inversion Using QRD-RLS Algorithm <i>Marjan Karkooti, Joseph R. Cavallaro, Rice University; Chris Dick, Xilinx</i>	9:20 AM
WA5a-4	Modeling Heterogeneous DSP-FPGA Based System Partitioning with Extensions to the Spinach Simulation Environment <i>Michael Brogioli, Joseph R. Cavallaro, Rice University</i>	9:45 AM

## Session WA5b Computer Architectures

- WA5b-1 Subword permutations with MIX instructions 10:30 AM  
*Zhijie Shi, University of Connecticut*
- WA5b-2 How to Optimize the Latency of Itanium FP Division at no extra Cost 10:55 AM  
*Peter-Michael Seidel, Southern Methodist University*
- WA5b-3 Adaptive Scheduling of Array-Intensive Applications on Mixed-Mode Reconfigurable Multiprocessors 11:20 AM  
*Xiaofang Wang, Sotirios Ziavras, New Jersey Institute of Technology*
- WA5b-4 A Light-Weight Cooperative Multithreading with Hardware Supported Thread-Management on an Embedded Multi-Processor System 11:45 AM  
*Bo-Cheng Charles Lai, Patrick Schaumont, Ingrid Verbaauwhede, University of California, Los Angeles*

## Session WA6 Image Enhancement and Modeling

- WA6-1 Smoothing an Image with Circular Gaussian Filter with Varying Kernel and Varying Standard Error 8:30 AM  
*Kamal Kant Misra, MNNIT, Allahabad*
- WA6-2 Halftoning-Inspired Methods for Foveation in Variable-Acuity Superpixel Imager (VASI) Cameras 8:55 AM  
*Thayne Coffman, Brian Evans, Alan Bovik, University of Texas, Austin*
- WA6-3 Image Denoising by Adaptive Kernel Regression 9:20 AM  
*Hiroyuki Takeda, Peyman Milanfar, University of California, Santa Cruz*
- WA6-4 An Unbiased Homomorphic System to Reduce Speckle in Images 9:45 AM  
*Debashis Sen, M. N. S. Swamy, M. Omair Ahmad, Concordia University*
- BREAK 10:10 AM
- WA6-5 Hidden Markov Modeling of Noise Periodograms Using Rayleigh Mixture Models 10:30 AM  
*Karsten Vandborg Sorensen, Soren Vang Andersen, Aalborg University*
- WA6-6 A Novel Parametric Power Spectral Density Model for Images 10:55 AM  
*Ryan Prendergast, Truong Nguyen, University of California, San Diego*
- WA6-7 Bounded-uncertainty estimation for correlated signal and noise 11:20 AM  
*Dan Lelescu, Frank Bossen, DoCoMo Communications Labs USA*
- WA6-8 Maximum Likelihood Detection in Image Watermarking Using Generalized Gamma Model 11:45 AM  
*Tek Ming Ng, Hari Krishna Garg, National University of Singapore*

## Session WA7 Beamforming and Direction of Arrival Estimation

- WA7-1 Self-Orthogonalizing Overlap-Save GSC 8:30 AM  
*Choo Leng Koh, Stephan Weiss, University of Southampton*
- WA7-2 Multi-Rank Adaptive Beamforming with Linear and Quadratic Constraints 8:55 AM  
*Henry Cox, Lockheed Martin-Orincon Defense; Ali Pezeshki, Louis L. Scharf, Colorado State University; Magnus Lundberg, Lulea University of Technology; Hung Lai, Lockheed Martin-Orincon Defense*
- WA7-3 DOA Estimation for Coherent Sources with Spatial Smoothing without Eigen Decomposition under Unknown Noise Filed 9:20 AM  
*Nizar Tayem, Hyuck Kwon, Wichita State University*
- WA7-4 ML Estimation under Misspecified Number of Signals 9:45 AM  
*Pei-Jung Chung, National Chiao Tung University*
- BREAK 10:10 AM
- WA7-5 Impact of Vector Antennas on Direction Estimation Using a Spherical Array 10:30 AM  
*Ajith Kamath, Brian Hughes, North Carolina State University*
- WA7-6 A Fast Beamforming Algorithm for Planar/Volumetric Arrays 10:55 AM  
*Babafemi Odelowo, Naval Undersea Warfare Center*
- WA7-7 Asymptotic Mean Squared Error Performance of Diagonally Loaded Capon-MVDR Processor 11:20 AM  
*Christ Richmond, MIT Lincoln Laboratory; Raj Rao Nadakuditi, Alan Edelman, Massachusetts Institute of Technology*
- WA7-8 On the probability distribution of the outputs of the diagonally loaded Capon-MVDR processor 11:45 AM  
*Raj Rao Nadakuditi, Alan Edelman, Massachusetts Institute of Technology*

## Session WA8 Network Information Theory

- WA8-1 Outer Bounds on the Capacity Region of Wireless Networks 8:30 AM  
*Sahand H. A. Ahmad, Aleksandar Jovicic, Pramod Viswanath, University of Illinois, Urbana-Champaign*
- WA8-2 An Upper Bound on the Achievable Rates in Multiple Access Channel with Correlated Sources 8:55 AM  
*Wei Kang, Sennur Ulukus, University of Maryland*
- WA8-3 The Strong Interference Channel with Common Information 9:20 AM  
*Ivana Maric, Roy D. Yates, Rutgers University*
- WA8-4 Cooperation Efficiency in the Low Power Regime 9:45 AM  
*Zigui Yang, Anders Host-Madsen, University of Hawaii*

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WA8-5	On Secure Signaling for the Gaussian Multiple Access Channel <i>Ender Tekin, Aylin Yener, Pennsylvania State University</i>	10:30 AM
WA8-6	Distributed and Layered Codes for Relaying <i>Gerhard Kramer, Bell Labs, Lucent Technologies</i>	10:55 AM
WA8-7	Rateless Slepian-Wolf Codes <i>Andrew W. Eckford, Wei Yu, University of Toronto</i>	11:20 AM
WA8-8	On the Computability of Some Information Theoretic Conditions <i>Sergio D. Servetto, Cornell University</i>	11:45 AM

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Kyriakakis, Chris	TP8b.1	Lopez-Vallejo, Marisa	TP8a.6	Morrell, Darryl	MA5b.2	Paulraj, Arogyaswami	WA2.4
Kyriakakis, Chris	MP5.8	Love, David J.	WA2.7	Mota, Joao Cesar	TP8b.11	Paulraj, Arogyaswami	TA2.1
Kyriakakis, Chris	MP5.7	Love, David J.	MP7.8	Mouchtaris, Athanasios	TA8a1.11	Paulraj, Arogyaswami	MA7b.1
Kyriakides, Ioannis	MA5b.2	Lu, Xiquan	TA5.5	Moura, Jose	TA3a.1	Peden, Alain	MA4b.4
Kyritsi, Persefoni	TP7.3	Luethi, Peter	TA4.7	Moura, Jose	MP2.8	Perels, David	TA4.7
L. F. de Almeida, Andre	TP8b.11	Lundberg, Magnus	WA7.2	Mu, Yi	MP4.4	Peterson, J. Michael	TP8b.1
Laakso, Timo	MP8a1.5	Luo, Xiliang	TP2.1	Mujtaba, Syed Aon	TP8a.6	Petropulu, Athina	TA8b.9
Labeau, Fabrice	TA8a1.5	Lutz, David	TP4.6	Muller, Jean-Michel	TP4.3	Pezeshki, Ali	WA7.2
Lacatus, Catalin	MP8a2.8	Lutz, David	TP8a.3				

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Pfann, Eugen	MP8a1.8	Saidi, Ali	MP8a2.6	Slock, Dirk T. M.	MA4b.4	Tisserand, Arnaud	TP4.3
Pfann, Eugen	MP8a1.7	Samadani, Ramin	TP5.7	Slock, Dirk T. M.	MA6b.1	Tong, Lang	MP2.2
Pillutla, Laxminarayana	WA3.5	Samadani, Ramin	MP5.4	Slock, Dirk T. M.	WA2.1	Toutain, Yann	MA4b.4
Powers, Edward J.	MP8a2.10	Samanta, Roopsha	MP7.2	Slock, Dirk T. M.	MP7.1	Tran, Denis	TA8a1.5
Prabhu, V. K.	TP7.1	Sampaio-Neto, Raimundo	TA6.8	Slock, Dirk T. M.	TA3a.2	Triki, Mahdi	TA3a.2
Prakash, Amit	TA4.4	Sampaio-Neto, Raimundo	TA8b.8	Sobelman, Gerald	TA7.2	Tsai, Shang-Ho	WA1.1
Prendergast, Ryan	WA6.6	Sampaio-Neto, Raimundo	MP8a2.1	Sohn, Kwang June	TP7.6	Tsakalides, Panagiotis	TA8a1.11
Prieto, Germn A.	TA8a2.7	Sanayei, Shahab	TA2.6	Song, Wang	MP6.7	Tseng, Ivy	TA5.4
Psaromiligkos, Ioannis	TP2.3	Sandgren, Niclas	TP8b.13	Song, Wang	MP8b.3	Tujkovic, Djordje	TA1.8
Pyun, Kyungsuk (Peter)	TP5.5	Sandhu, Sumeet	TP6.2	Sonkar, Prem	TP3.1	Tummala, Murali	TA6.4
Qiu, Peiliang	TP8b.9	Santhanam, Balu	MP3.4	Spencer, Nicholas	TP3.4	Turley, Michael	MA5b.1
Qiu, Qinru	TP8b.9	Santhanam, Balu	TA8a2.9	Spencer, Nicholas	MA5b.1	Ulukus, Sennur	WA8.2
Rabideau, Daniel	WA3.4	Sanubari, Junibakti	MP8b.2	Sriraja, Y.	TA8a1.2	Vacca, Fabrizio	TP3.3
Rabideau, Daniel	TA6.3	Sarvotham, Shriram	WA3.1	Staelin, David H.	MP8a1.2	Vacca, Fabrizio	TP8a.5
Radosavljevic, Predrag	TA1.3	Sarvotham, Shriram	MA1b.2	Stancil, Dan	TA3a.1	Vaidyanathan, P. P.	MA2b.1
Rahman, M. Shahidur	MP5.2	Sawitzki, Sergei	TA8b.5	Stanczak, Slawomir	MA6b.2	Vaidyanathan, P. P.	MP1.5
Ramirez-Mireles, Fernando	TA8b.2	Sawitzki, Sergei	TA8b.5	Stanczak, Slawomir	MP8a1.12	Vajapeyazula, Phani	TP1.1
Rana, Ram Singh	MP8b.1	Scharf, Louis L.	WA7.2	Stanczak, Slawomir	MA2b.2	van der Veen, Alle-Jan	TP2.2
Rankov, Boris	TP1.8	Schaumont, Patrick	WA5b.4	Stauffer, Erik	TA1.8	van Vugt, Peter	MP3.5
Rao, Bhaskar	TA7.7	Schellmann, Malte	MP8a1.12	Stauffer, Erik	TP6.2	Vanam, Rahul	MP5.5
Rao, Bhaskar	MA7b.3	Schnurr, Clemens	MA6b.2	Stewart, Robert	MP8a1.8	Vandborg Sorensen, Karsten	WA6.5
Rao Nadakuditi, Raj	WA7.8	Scholtz, Robert	MP1.3	Stewart, Robert	MP8a1.7	Vang Andersen, Soren	WA6.5
Rasor, Gregg	TA8a2.14	Scholtz, Robert	TP2.8	Stoica, Peter	TP7.3	Varanasi, Mahesh	TP1.1
Ratnarajah, Tharmalingam	MA7b.4	Schubert, Martin	TP8b.10	Stoica, Peter	MP4.6	Vardhe, Kanchan	TP1.6
Ratnarajah, Tharmalingam	WA2.6	Seidel, Peter-Michael	WA5b.2	Stoica, Peter	TP8b.13	Varodayan, David	TP5.1
Re, Marco	MA4b.3	Selen, Yngve	MA6b.3	Su, Borching	MA2b.1	Veeravalli, Venugopal	WA3.3
Re, Marco	WA5a.2	Sellathurai, Mathini	TA3b.1	Subramanian, Ananth	MP1.7	Venkataraman, Vishwanath	TA6.5
Reed, Mark	TA7.1	Sen, Debashis	WA6.4	Sui, Haichang	WA4.1	Verbauwhede, Ingrid	WA5b.4
Reed, Mark	TA8a2.12	Seo, Munkyo	TP3.2	Sun, Sumei	MA4b.1	Vernon, Frank	TA8a2.7
Reed, Mark	TA3a.4	Serrano, Salvatore	MP8b.8	Sun, Sumei	TP8b.14	Veselinovic, Nenad	TA7.4
Reynolds, Daryl	TP1.6	Servetto, Sergio D.	WA8.8	Suryavanshi, Vijay	MA2b.3	Vieira, Robson	TA8b.1
Riaz, Usman	TA8b.3	Sezgin, Aydin	TP6.7	Suter, Bruce	TA8a2.10	Villard, Gabriel	TP6.1
Ribeiro, Alejandro	MP8a2.7	Shah, Harsh	MP8b.9	Svantesson, Thomas	MA7b.3	Villasenor, John D.	TP5.4
Ribeiro, Alejandro	MP2.5	Shah, Himanshu	MA3b.3	Swami, Ananthram	MP2.2	Vincent, Francois	TP7.9
Ribeiro, Cassio	TA7.6	Shah, Syed Faisal	MP2.5	Swamy, M. N. S.	WA6.4	Vincent, Patrick	TA6.4
Ribeiro Dias, Alexandre	MA4b.4	Shalash, Ahmed	MP8a2.4	Swartzlander, Jr., Earl E.	TP4.8	Visvakumar, Aravinthan	MP8a1.6
Ricci, Giuseppe	TA5.7	Shalash, Ahmed	MP6.8	Swartzlander, Jr., Earl E.	WA5a.1	Viswanath, Pramod	MA1b.1
Rice, Bart	MA5b.3	Shalash, Ahmed	TP8a.1	Swindlehurst, A. Lee	TP3.8	Viswanath, Pramod	WA8.1
Richmond, Christ	WA7.7	Shen, Zukang	TA2.2	Sworder, Dave	MP8b.14	Vu, Mai	TA2.1
Richter, Andreas	TP8b.2	Shepherd, David	TA8a2.12	Tadjpour, Layla	WA1.1	Vu, Mai	MA7b.1
Richter, Andreas	TA7.6	Shi, Shuying	TP8b.10	Takeda, Hiroyuki	WA6.3	Wahid, Khan	TA4.1
Ritcey, James	WA4.2	Shi, Zhenning	TA8a2.12	Tan, Peiyu	MP3.1	Wakin, Michael	WA3.1
Rodwell, Mark	TP3.2	Shi, Zhijie	WA5b.1	Tanaka, Hirobumi	MP8b.4	Wang, Huahui	MA6b.4
Romero-Jerez, Juan	TP8b.7	Shimamura, Tetsuya	MP5.2	Tanaka, Yuichi	MA3b.2	Wang, Huahui	TP8b.12
Rouchy, Christopher	TP8b.8	Shimamura, Tetsuya	MP8b.4	Tang, Bin	MP8b.1	Wang, Jiachi	TA8a2.2
Rouquette, Stephanie	MA4b.4	Shin, Changyong	MP8a2.10	Tao, Hailiang	TP7.4	Wang, Jiachi	TA3b.4
Roy, Sumit	TA2.5	Shirai, Keiichiro	TA8a1.7	Tavildar, Saurabha	MA1b.1	Wang, Jia-Ching	MP5.6
Roy Choudhury, Subham	TA4.8	Shynk, John	TA6.7	Tay, Peter	MP4.5	Wang, Jianqi	MP7.5
Ruan, Matt	TA8a2.12	Shynk, John	TA6.5	Tayem, Nizar	WA7.3	Wang, Jiong	MP3.7
Rupp, Markus	TP6.4	Shynk, John	MP6.2	Tayem, Nizar	WA3.6	Wang, Ping	TP3.9
Rupp, Markus	MP8a1.5	Sikora, Thomas	TA8a1.4	Taylor, Robert	MP7.4	Wang, Renqiu	TA7.5
Rupp, Markus	TP8a.10	Simard, Stephane	TP8a.7	Tekin, Ender	WA8.5	Wang, Renqiu	TP1.5
Russo, Alessandra	MP8b.8	Singh, Manjeet	TA1.5	Teng, Feng	WA2.3	Wang, Sheng-Fu	TA8a2.3
Sabharwal, Ashutosh	TA3b.2	Singh, R. K.	TP3.1	Tepedelenlioglu, Cihan	TP6.3	Wang, Tairan	TP1.4
Sabir, Muhammad	WA4.7	Siqueira, Glucio	TA8b.1	Thai, Hieu	TP3.9	Wang, Xiaodong	TP6.6
Sadjadpour, Hamid	TP8b.8	Skoglund, Mikael	TA2.3	Thejaswi, Chandrashekhara	MP3.3	Wang, Xiaodong	TA2.4
Sadjadpour, Hamid	TP1.7	Skoglund, Mikael	MP7.7	Thomas, Joseph	TA8a2.6	Wang, Xiaofang	WA5b.3
Sadjadpour, Hamid	TA2.7	Skoglund, Mikael	MA1b.3	Thomson, David J.	TA8a1.12	Wang, Xin	MP8a2.7
Sadler, Brian	MP1.2	Sloat, Shon	TP8a.11	Thomson, David J.	TA8a2.7	Wang, Zhijin	TP5.8

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Wang, Zhongfeng	TA4.6	Zhao, Wanlun	TP1.5
Wanhammar, Lars	TA1.2	Zheng, Xiayu	WA4.6
Wanhammar, Lars	TP8a.4	Zheng, Yibin	MP3.7
Weaver, Robert	TP2.6	Zheng, Yibin	MP4.3
Wei, Shuangqing	TP1.3	Zhou, Kainan	WA1.2
Weiss, Stephan	TA6.6	Zhou, Yugang	MP8b.12
Weiss, Stephan	MP8a1.2	Zhu, Jimmy	TA3a.1
Weiss, Stephan	WA7.1	Zhu, Zhenyu	TA2.7
Wen, Jiangtao (Gene)	TP5.4	Ziavras, Sotirios	WA5b.3
Whitehouse, Harper	TP8a.11	Zoltowski, Michael D.	WA2.7
Wicznanowski, Marcin	MA2b.2	Zoltowski, Michael D.	MP7.5
Withers, Lang	MP7.4	Zoubir, Abdelhak M	TA3b.3
Witrisal, Klaus	MP1.6		
Wittneben, Armin	TP1.9		
Wittneben, Armin	TP1.8		
Won, Chee Sun	TP5.5		
Wong, Ian	WA1.3		
Woo, Grace	WA1.6		
Wood, Leslie	WA4.3		
Wu, Huapeng	TP8a.2		
Wu, Huapeng	TP4.5		
Wu, Xiang	TA4.4		
Xie, Lin	TP8b.9		
Xie, Yao	MP4.6		
Xu, Changlong	TA1.7		
Xu, Changlong	MP8a2.12		
Xu, Luzhou	MP4.6		
Xu, Luzhou	MP4.7		
Xu, Zhengyuan	MP1.2		
Xu, Zhengyuan	MP8a2.5		
Yadav, Manoj	TA4.5		
Yang, Liuqing	MP1.1		
Yang, Zigui	WA8.4		
Yao, Ning	TA8b.12		
Yasein, Mohamed	TA8a1.6		
Yates, Roy D.	WA8.3		
Yazici, Birsen	MP4.2		
Ye, Yinyu	MP2.6		
Yeary, Mark	TA5.6		
Yener, Aylin	WA8.5		
Yu, Wei	WA8.7		
Yu, Xinying	TP6.5		
Yu, Yingqun	MP8a2.7		
Yu, Yuanning	TA8b.9		
Yue, Guosen	TP6.6		
Zaidi, Abdellatif	TA2.8		
Zaidi, Irtiza	TA8a2.1		
Zeidler, James	WA4.1		
Zhai, Yan	TA5.6		
Zhan, Pengcheng	TP3.8		
Zhang, Benhong	TA8a2.11		
Zhang, Benhong	WA3.8		
Zhang, Jianzhong (Charlie)	WA2.2		
Zhang, Liang	MP8b.1		
Zhang, Rui	TP8b.14		
Zhang, Xi	MP7.6		
Zhao, Qian	TP5.3		
Zhao, Qing	MP2.2		
Zhao, Wanlun	TA7.5		

## Notes

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