

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



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

**In Cooperation with**



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

**Organized in cooperation with**

NAVAL POSTGRADUATE SCHOOL  
Monterey, California

ATK MISSION RESEARCH  
Monterey, California

**and**

IEEE SIGNAL PROCESSING SOCIETY

## CONFERENCE COMMITTEE

### **General Chairman**

Prof. Hui Liu  
Dept. Electrical Engineering &  
Comp. Sc.  
307P EE/CSE, Box 352500  
University of Washington  
Seattle, WA 98195  
E-mail: hliu@ee.washington.edu

### **Technical Program Chairman**

Prof. Behnaam Aazhang  
Electrical and Computer  
Engineering Dept., MS-380  
Rice University  
6100 Main Street  
Houston, TX 77005-1892  
E-mail: aaz@rice.edu

### **Publicity Chairman**

Prof. Murali Tummala  
Department of Electrical &  
Computer Engineering  
Naval Postgraduate School  
Monterey, CA 93942-5121  
E-mail: mtummala@nps.edu

### **Conference Coordinator**

Prof. Monique P. Fargues  
Department of Electrical and  
Computer Engineering  
Naval Postgraduate School  
Monterey, CA 93943  
E-mail: fargues@nps.edu

### **Finance Chairman**

Prof. Douglas J. Fouts  
Department of Electrical &  
& Computer Engineering  
Naval Postgraduate School  
Monterey, CA 93943-5121  
E-mail: dfouts@nps.edu

### **Publication Chairman**

Dr. Michael B. Matthews  
ATK Mission Research  
10 Ragsdale Drive, Suite 201  
Monterey, CA 93940  
E-mail:  
michael.matthews@atk.com

# 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

# Conference Steering Committee

**PROF. CHARLES W. THERRIEN**

*Chairman*

Dept. of Electrical & Computer Eng.  
833 Dyer Road  
Room 437  
Code EC/Ti  
Naval Postgraduate School  
Monterey, CA 93943-5121

**PROF. SHERIFF MICHAEL**

*Secretary*

Dept. of Electrical & Computer Eng.  
833 Dyer Road  
Room 437  
Code EC/Mi  
Naval Postgraduate School  
Monterey, CA 93943-5121

**PROF. DOUGLAS J. FOUTS**

*Treasurer*

Dept. of Electrical & Computer Eng.  
833 Dyer Road  
Room 437  
Code EC/Hi  
Naval Postgraduate School  
Monterey, CA 93943-5121

**PROF. VICTOR E. DEBRUNNER**

Dept. of Electrical & Computer  
Engineering  
University of Oklahoma  
202 West Boyd Street, Room 219  
Norman, OK 73019-0631

**PROF. MONIQUE P. FARGUES**

Dept. of Electrical & Computer Eng.  
833 Dyer Road  
Room 437  
Code EC/Fa  
Naval Postgraduate School  
Monterey, CA 93943-5121

**PROF. BENJAMIN FRIEDLANDER**

Dept. of Electrical & Computer Eng.  
Room 119  
Jack Baskin Engineering Bldg.  
University of California-Santa Cruz  
Santa Cruz, CA 95064

**PROF. FREDERIC J. HARRIS**

Dept. of Electrical Engineering  
San Diego State University  
San Diego, CA 92115

**PROF. RALPH D. HIPPENSTIEL**

Dept. of Electrical Engineering  
Engineering Bldg.  
3900 University Blvd.  
University of Texas at Tyler  
Tyler, TX 75799

**PROF. W. KENNETH JENKINS**

Dept. of Electrical Engineering  
The Pennsylvania State University  
129 Electrical Engineering East  
University Park, PA 16802-2705

**DR. MICHAEL B. MATTHEWS**

ATK Mission Research  
10 Ragsdale Drive, Suite 201  
Monterey, CA 93940

**PROF. JAMES A. RITCEY**

Dept. of Electrical Engineering  
Box 352500  
University of Washington  
Seattle, WA 98195

**DR. SAMUEL D. STEARNS**

Sandia National Laboratories  
3705 Utah NE  
Albuquerque, NM 87110

**PROF. EARL E. SWARTZLANDER, Jr.**

Dept. of Electrical & Computer Eng.  
University of Texas at Austin  
Austin, TX 78712

**PROF. KEITH A. TEAGUE**

Chair, School of Electrical  
& Computer Engineering  
202 Engineering South  
Oklahoma State University  
Stillwater, OK 74078-5032

**PROF. MURALI TUMMALA**

Dept. of Electrical & Computer Eng.  
833 Dyer Road  
Room 437  
Code EC/Tu  
Naval Postgraduate School  
Monterey, CA 93943-5121

# 2005 Asilomar Technical Program Committee

*Chairman*

**Prof. Behnaam Aazhang**  
Rice University

## 2005 Asilomar Technical Program Committee Members

### **A. Comm. Systems and Networks**

Aylin Yener  
Electrical Engineering Department  
Pennsylvania State University, 121  
Electrical Eng. East  
University Park, PA 16802  
E-mail: yener@ee.psu.edu

Tolga Duman  
Electrical Engineering Department  
Arizona State University, Box 875706  
Tempe, AZ 85287-5706  
E-mail: duman@asu.edu

### **B. Adaptive Systems and Processing**

Douglas L. Jones  
Coordinated Science Laboratory  
Univ. of Illinois, 1308 W. Main Street  
Urbana, IL 61801  
E-Mail: dl-jones@uiuc.edu

Brian Krongold  
Dept. of Electrical & Electronic Eng.  
University of Melbourne  
Parkville, Victoria 3010, Australia  
E-mail: b.krongold@ee.mu.oz.au

### **C. Array Processing and MIMO**

Michael Fitz  
Electrical Engineering Dept.  
Box 951594, Boelter Hall  
University of California Los Angeles  
Los Angeles, CA 90095-1594  
E-mail: fitz@ee.ucla.edu

Markku Juntti  
Telecomm Lab & Centre for Wireless  
Communications  
P.O. Box 4500  
FIN-90014 University of Oulu, Finland  
E-mail: markku.juntti@ee.oulu.fi

### **D. Biomedical Signal and Image Processing**

Courtney Lane  
Electrical and Computer Engineering  
Dept., MS-380  
Rice University, 6100 Main Street  
Houston, TX 77005-1892  
E-mail: court@rice.edu

Yibin Zheng  
Dept. of Electrical and Computer Eng.  
351 McCormick Road, P.O. Box  
400743  
University of Virginia  
Charlottesville, VA 22904-4743  
E:mail: yz6n@virginia.edu

### **E. Signal Processing Algorithms and Applications**

Chaitali Sengupta  
Texas Instruments  
12500 TI Boulevard, MS 8723  
Dallas, TX 75243  
E-mail: chaitali@ti.com

Babak Daneshrad  
Electrical Engineering Department  
University of California Los Angeles  
Box 951594, 56-147E Engr IV  
Los Angeles, CA 90095-1594  
E-mail: babak@ee.ucla.edu

### **F. Architecture and Implementation**

Sundararajan Sriram  
Texas Instruments  
1437 Sussex Dr.  
Plano, TX 75075  
E-mail: sriram@ti.com

Sridhar Rajagopal  
WiQuest Communications, Inc.  
P. O. Box 2326  
Allen, TX 75013  
E-mail: Sridhar.rajagopal@wiquest.com

### **G. Speech, Image, and Video Processing**

Sheila S. Hemami  
Electrical and Computer Engineering  
Dept.  
Cornell University, 332 Rhodes Hall  
Ithaca, NY 14853  
Phone: (607) 254-5128  
E-mail: hemami@ece.cornell.edu

Majid Rabbani  
Eastman Kodak Company  
1700 Dewey Ave.  
Rochester, NY 14650-1816  
Phone: (585) 477-3722  
E-mail: majid.rabbani@kodak.com

# 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  
*Kantorn 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    10:15 AM  
Detection  
*Zhaohui Cai, Sumei Sun, Jianzhong Hao, Institute for Infocomm Research*
- MA4b-2    Complexity Analysis of MMSE Detector    10:40 AM  
Architectures for MIMO OFDM Systems  
*Markus Myllyla, Juha-Matti Hintikka, University of Oulu; Matti Limingoja, Aaron Byman, Elektrobit Ltd.; Joseph Cavallaro, Markku Juntti, University of Oulu*
- MA4b-3    Reconfigurable Digital Architecture for the    11:05 AM  
Validation of a DVB-S Link  
*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    11:30 AM  
Area Networks  
*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)    10:15 AM  
Adaptive Order and Spectrum Estimation  
*Yuri Abramovich, Defence Science and Technology Organisation; Nicholas Spencer, CSSIP; Michael Turley, Defence Science and Technology Organisation*
- MA5b-2    Multiple Target Tracking With Constrained    10:40 AM  
Motion Using Particle Filtering Methods  
*Ioannis Kyriakides, Darryl Morrell, Antonia Papandreou-Suppappola, Arizona State University*
- MA5b-3    A Muli-Channel Combiner with    11:05 AM  
Carrier-Offset Tracking  
*Eric Long, Zeta Associates, Inc.; Bart Rice, Rincon Research Corporation*
- MA5b-4    Reconfigurable Bayesian Networks for    11:30 AM  
Hierarchical Multi-Stage Situation Assessment in  
Battlespace  
*Farnoush Mirmoeini, Vikram Krishnamurthy, University of British Columbia*

## **Session MA6b    CDMA Techniques**

- MA6b-1    Common and Dedicated Pilot-Based Channel    10:15 AM  
Estimates Combining and Kalman Filtering for  
WCDMA Terminals  
*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 10:40 AM  
*Clemens Schnurr, TU-Berlin; Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications*
- MA6b-3 Model-Averaged RAKE Receivers for Direct-Sequence Spread-Spectrum Systems 11:05 AM  
*Yngve Selen, Uppsala University; Erik G. Larsson, Royal Institute of Technology (KTH)*
- MA6b-4 A New Multicarrier CDMA System Exploiting Frequency-Time Diversities 11:30 AM  
*Huahui Wang, Qi Ling, Tongtong Li, Michigan State University*

### Session MA7b MIMO Capacity

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

### Session MP1 UWB

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



MP1-6	Narrowband Interference Mitigation for Differential UWB Systems <i>Klaus Witrisal, Yohannes D. Alemseged, 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
	<b>BREAK</b>	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      1:30 PM  
Region Using Syndrome Formers and Inverse  
Syndrome Formers  
*Peiyu Tan, Jing Li, Lehigh University*
- MP3-2      Optimization under Unitary Matrix Constraint      1:55 PM  
using Approximate Matrix Exponential  
*Traian Abrudan, Jan Eriksson, Visa Koivunen, Helsinki  
University of Technology*
- MP3-3      Kolmogorov Complexity of Signals with      2:20 PM  
Finite Rate of Innovation  
*Subhas Ghosh, Viswanath Ganapathy, Chandrashekhara  
Thejaswi, Ranjeet Patro, Honeywell*
- MP3-4      On the Unimodality of Deflation based Fast      2:45 PM  
ICA Contrast  
*Malay Gupta, Balu Santhanam, University of New Mexico*
- BREAK      3:10 PM
- MP3-5      Reversible Integer-to-Integer Wavelet      3:30 PM  
Transforms With Improved Approximation  
Properties  
*Peter van Vugt, Michael Adams, University of Victoria*
- MP3-6      New Fast Fourier Transform with Linear      3:55 PM  
Multiplicative Complexity  
*Sos Agaian, Okan Caglayan, University of Texas, San  
Antonio*
- MP3-7      Frequency Estimation of 2-D Sinusoids from      4:20 PM  
Very Limited Data  
*Jiong Wang, Yibin Zheng, University of Virginia*
- MP3-8      The Spectral Products Created by Nonlinear      4:45 PM  
Intersymbol Interference in NRZ Data  
*Jeffrey Coleman, Naval Research Laboratory*

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

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

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

## Session MP7 MIMO Feedback Communications

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

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

### **Session MP8a1 Communication Over Non-Ideal Channels (Poster)**

- MP8a1-1 Decoding of Product Codes Use of Annealed Max-Log-MAP Algorithm  
*Ebrahim Karami, Iran Telecommunication Research Center*
- MP8a1-2 A New UMTS TDD Burst Structure With a Semi-Blind Equalisation Scheme  
*Mahmoud Hadeif, Stephan Weiss, University of Southampton*
- MP8a1-3 Blind Identification of Series-Cascade Nonlinear Channels  
*Alain Kibangou, Gerard Favier, Laboratoire I3S/ CNRS/ UNSA*
- MP8a1-4 A wavelet transform approach to the design of complementary sequences for communications  
*Todor Cooklev, San Francisco State University*
- MP8a1-5 Comparison and Experimental Verification of Two Low-complex Digital Predistortion Methods  
*Mei Yen Cheong, Helsinki University of Technology; Ernst Aschbacher, Peter Brunmayr, Markus Rupp, Vienna University of Technology; Timo Laakso, Helsinki University of Technology*
- MP8a1-6 Performance of Decentralized Detection in a Resource-constrained Sensor Network with Non-orthogonal Communications  
*Kossai Al Tarazi, Sudharman Jayaweera, Aravinthan Visvakumar, Wichita State University*
- MP8a1-7 Pulse Shaping for RF Communications in Wireless Sensor Networks  
*Louise Crockett, Neil MacEwen, Eugen Pfann, Robert Stewart, University of Strathclyde*
- MP8a1-8 Symbol Synchronisation Implementation for Low-Power RF Communication in Wireless Sensor Networks  
*Neil MacEwen, Louise Crockett, Eugen Pfann, Robert Stewart, University of Strathclyde*
- MP8a1-9 Source Localization from Moving Arrays of Sensors  
*Todd Moon, David Keller, Utah State University*

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

## Session TA1 Coding and Modulations

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



## Session TA2      Feedback Communications

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

## Session TA3a      Signal Processing for Wireless Communications

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

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 Minoo, 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 Kubichek, 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 Aгаian, 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  
*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 Hine, 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, Zhenning 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/Supélec*
- 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

## Session TP1 Relay Channels

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
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
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
	BREAK	3:10 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
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
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
TP1-8	Spectral Efficient Signaling for Half-duplex Relay Channels <i>Boris Rankov, Armin Wittneben, ETH Zurich</i>	4:45 PM
TP1-9	Cooperative Distributed Multiuser MMSE Relaying in Wireless Ad-Hoc Networks <i>Stefan Berger, Armin Wittneben, ETH Zurich</i>	5:10 PM

## Session TP2 Synchronization

TP2-1	Synchronization of Multiple Ultra-Wideband Piconets <i>Xiliang Luo, Georgios B. Giannakis, University of Minnesota</i>	1:30 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
TP2-3	On Subspace-based Blind Channel Estimation Algorithms for SFBC MC-CDMA systems <i>Shahrokh Nayebe Nazar, Ioannis Psaromiligkos, McGill University</i>	2:20 PM



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
	BREAK	3:10 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
TP2-6	No information? Delay estimation below the threshold SNR <i>Robert Weaver, University of Southern California</i>	3:55 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
TP2-8	A theoretical model of a voltage controlled oscillator <i>Yenming Chen, Robert Scholtz, University of Southern California</i>	4:45 PM

### **Session TP3      Applied Signal Processing**

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
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
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
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
	BREAK	3:10 PM
TP3-5	A Subspace Framework for Adaptive Radar Waveform Design <i>Benjamin Friedlander, University of California, Santa Cruz</i>	3:30 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. Ercegovac, 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. Ercegovac, 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
-------	--	---------

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
	<b>BREAK</b>	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 Chimitt, 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	Beamspace 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      5:10 PM  
*Guillaume Carrie, Francois Vincent, ENSICA; Thierry Deloues, ONERA*

## **Session TP8a      Architecture and Implementation (Poster)**

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

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

- TP8b-1      Analysis of Fast Localization Algorithms for Acoustical Environments  
*J. Michael Peterson, Chris Kyriakakis, University of Southern California*

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

## Session WA1 OFDM

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

## Session WA2 MIMO and Multiple Access

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

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

## Session WA5a Low Power and FPGA

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

## 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 10:55 AM  
Division at no extra Cost  
*Peter-Michael Seidel, Southern Methodist University*
- WA5b-3 Adaptive Scheduling of Array-Intensive 11:20 AM  
Applications on Mixed-Mode Reconfigurable  
Multiprocessors  
*Xiaofang Wang, Sotirios Ziavras, New Jersey Institute of  
Technology*
- WA5b-4 A Light-Weight Cooperative Multithreading 11:45 AM  
with Hardware Supported Thread-Management on  
an Embedded Multi-Processor System  
*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 8:30 AM  
Filter with Varying Kernel and Varying Standard  
Error  
*Kamal Kant Misra, MNNIT, Allahabad*
- WA6-2 Halftoning-Inspired Methods for Foveation in 8:55 AM  
Variable-Acuity Superpixel Imager (VASI)  
Cameras  
*Thayne Coffman, Brian Evans, Alan Bovik, University of  
Texas, Austin*
- WA6-3 Image Denoising by Adaptive Kernel 9:20 AM  
Regression  
*Hiroyuki Takeda, Peyman Milanfar, University of  
California, Santa Cruz*
- WA6-4 An Unbiased Homomorphic System to 9:45 AM  
Reduce Speckle in Images  
*Debashis Sen, M. N. S. Swamy, M. Omair Ahmad,  
Concordia University*
- BREAK 10:10 AM
- WA6-5 Hidden Markov Modeling of Noise 10:30 AM  
Periodograms Using Rayleigh Mixture Models  
*Karsten Vandborg Sorensen, Soren Vang Andersen,  
Aalborg University*
- WA6-6 A Novel Parametric Power Spectral Density 10:55 AM  
Model for Images  
*Ryan Prendergast, Truong Nguyen, University of  
California, San Diego*
- WA6-7 Bounded-uncertainty estimation for correlated 11:20 AM  
signal and noise  
*Dan Lelescu, Frank Bossen, DoCoMo Communications  
Labs USA*
- WA6-8 Maximum Likelihood Detection in Image 11:45 AM  
Watermarking Using Generalized Gamma Model  
*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      8:55 AM  
Linear and Quadratic Constraints  
*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      9:20 AM  
Spatial Smoothing without Eigen Decomposition  
under Unknown Noise Filed  
*Nizar Tayem, Hyuck Kwon, Wichita State University*
- WA7-4      ML Estimation under Misspecified Number      9:45 AM  
of Signals  
*Pei-Jung Chung, National Chiao Tung University*
- BREAK      10:10 AM
- WA7-5      Impact of Vector Antennas on Direction      10:30 AM  
Estimation Using a Spherical Array  
*Ajith Kamath, Brian Hughes, North Carolina State University*
- WA7-6      A Fast Beamforming Algorithm for      10:55 AM  
Planar/Volumetric Arrays  
*Babafemi Odelowo, Naval Undersea Warfare Center*
- WA7-7      Asymptotic Mean Squared Error Performance      11:20 AM  
of Diagonally Loaded Capon-MVDR Processor  
*Christ Richmond, MIT Lincoln Laboratory; Raj Rao Nadakuditi, Alan Edelman, Massachusetts Institute of Technology*
- WA7-8      On the probability distribution of the outputs      11:45 AM  
of the diagonally loaded Capon-MVDR processor  
*Raj Rao Nadakuditi, Alan Edelman, Massachusetts Institute of Technology*

## **Session WA8      Network Information Theory**

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

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

## Author List

<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
Aaron, Anne	TP5.1	Bauer, Carsten	MP8a2.13
Aazhang, Behnaam	TA3b.2	Beguenane, Rachid	TP8a.7
Abatzoglou, Theagenis	TA8a2.8	Belloni, Fabio	TP8b.2
Abed-Meraim, Karim	TA3b.3	Benjelloun, Mohammed	TA5.6
Abramovich, Yuri	TP3.4	Berger, Stefan	TP1.9
Abramovich, Yuri	MA5b.1	Beritelli, Francesco	MP8b.8
Abreu, Giuseppe	TP6.8	Bernardin, Philippe	MA4b.4
Abreu, Giuseppe	TP6.1	Beuchat, Jean-Luc	TP8a.7
Abrudan, Traian	MP3.2	Bharitkar, Sunil	MP5.8
Acton, Scott	MP4.8	Bharitkar, Sunil	MP5.7
Acton, Scott	MP4.5	Bhashyam, Srikrishna	WA4.5
Acton, Scott	MP4.1	Biswas, Kevin	TP4.5
Adams, Michael	MP3.5	Biswas, Pratik	MP2.6
Agaian, Sos	MP3.6	Blad, Anton	TA1.2
Agaian, Sos	TA8a1.10	Bliss, Dan	TP7.5
Agathoklis, Panajotis	TA8a1.6	Blum, Rick	TA2.7
Aghajan, Hamid	WA3.7	Boche, Holger	TP8b.10
Aghajan, Hamid	MP2.6	Boche, Holger	MA2b.2
Ahmad, M. Omair	WA6.4	Bonardo, Luca	TP3.3
Ahmad, Sahand H. A.	WA8.1	Borg, Gerard	TA3a.4
Ahmadi, Majid	TP8a.2	Bose, Tamal	MP6.7
Ahmadi, Majid	TP4.5	Bose, Tamal	MP8b.3
Ahmed, Sajid	TA3b.1	Bossen, Frank	WA6.7
Akhavan Saraf, Mohammad	TP3.6	Bovik, Alan	WA6.2
Akhlaghi, Javad	TP3.6	Bovik, Alan	WA4.7
Akkas, Ahmet	TP8a.8	Boyd, John	MP8b.14
Akopian, David	TA8a1.10	Brogioli, Michael	WA5a.4
Al Tarazi, Kossai	MP8a1.6	Bruguera, Javier	TP4.1
Alayyan, Faisal O.	TA3b.3	Brunmayr, Peter	MP8a1.5
Aldosari, Saeed	MP2.8	Burg, Andreas	TA4.7
Alemseged, Yohannes D.	MP1.6	Byman, Aaron	MA4b.2
Ali , Adel Lotfy	MP4.4	Caglayan, Okan	MP3.6
Anderson, Michael	TA3a.4	Cagley, Richard	MP2.4
Anderson-Sprecher, Richard	TA8a1.3	Cai, Zhaohui	MA4b.1
Andersson, Tomas	MA1b.3	Caire, Giuseppe	MA4b.4
Andrekson, Peter	TA2.7	Cano Pleite, Alfonso	TP1.4
Andrews, Jeffrey	TA2.2	Cappellari, Lorenzo	TA5.3
Antkowiak, Pat	MP4.1	Cardarilli, Gian Carlo	MA4b.3
Aschbacher, Ernst	MP8a1.5	Cardarilli, Gian Carlo	WA5a.2
Au Yeung, Chun Kin	MP7.8	Carrie, Guillaume	TP7.9
Ausavapattanakun, Kamtorn	MA2b.4	Casale, Salvatore	MP8b.8
Aziz, Adnan	TA4.4	Casbeer, David	TP3.8
Badawy, Wael	TA4.1	Castanon, David	TA5.8
Baez-Lopez, David	TA8a2.5	Cavallaro, Joseph	MA4b.2
Balam, Jagadeesh	MP5.3	Cavallaro, Joseph R.	WA5a.3
Baldwin, David	TP3.9	Cavallaro, Joseph R.	WA5a.4
Baliga, Jayant	TA7.1	Cavallaro, Joseph R.	TA1.3
Balta, Horia	TA1.6	Cepni, Ahmet	TA3a.1
Bandiera, Francesco	TA5.7	Chambers, Jonathon	TA3b.1
Baraniuk, Richard	WA3.1	Champanerias, Nisha	TA8b.6
Baraniuk, Richard	MA1b.2	Chan, Geoffrey	MP8b.12
Baron, Dror	WA3.1	Chan, Siu-Ping	TP5.8
Baron, Dror	MA1b.2	Chance, Britton	MP4.2
Barros, Fabrcio	TA8b.1	Chau, Paul	TP8b.3
Bassignana, Paolo	TP8a.5	Chee Wai, Chan	TA6.4
Bastug, Ahmet	MA6b.1	Chen, Biao	TA8a2.10

<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
Chen, Chun-Yang	MP1.5	Doppler, Klaus	WA1.5
Chen, Mo	MP8a1.10	Douglas, Scott	MP6.1
Chen, Runhua	TA2.2	Douglas, Scott	TP7.8
Chen, Yenming	TP2.8	Douglas, Scott	MP8b.7
Cheng, Chao	MP6.6	Duarte, Marco	WA3.1
Cheng, Yong-Sheng	TA3a.3	Duhamel, Pierre	TA8b.4
Cheong, Mei Yen	MP8a1.5	Duhamel, Pierre	TA2.8
Cheung, David B.	TP6.2	Eckford, Andrew W.	WA8.7
Chew, Yong Huat	WA1.2	Edelman, Alan	WA7.7
Chimitt, William	TP6.2	Edelman, Alan	WA7.8
Chin, Francois	TA1.5	Edinger, Stefan	MP8a2.13
Cho, Heumpil	TP4.8	Eggers, Patrick	TP7.3
Chu, Wai	TA8a1.8	Ekmekci Flierl, Sila	TA8a1.4
Chung, Pei-Jung	WA7.4	Elliott, Robert	MP8b.14
Clarkson, William	MP6.4	Emami, Majid	WA2.4
Codreanu, Marian	WA2.8	Emami, Majid	TA8b.7
Coffman, Thayne	WA6.2	Emami, Shahriar	TA8a2.14
Coleman, Jeffrey	MP3.8	Epstein, Frederick	MP4.1
Conrat, Jean-Marc	MA4b.4	Ercegovac, Milos D.	TP4.3
Cooklev, Todor	MP8a1.4	Ercegovac, Milos D.	TP4.4
Corral, Tino	TA8a2.14	Erdol, Nurgun	TP3.7
Cotae, Paul	MP8a2.8	Eriksson, Jan	MP3.2
Cox, Henry	WA7.2	Erkip, Elza	MA1b.4
Creusere, Charles	MP5.5	Ertug, Ozgur	MP8a2.9
Creusere, Charles	TP5.2	Etter, Delores	TA8a1.1
Crockett, John	TA1.4	Evans, Brian	TA2.2
Crockett, Louise	MP8a1.8	Evans, Brian	WA5a.1
Crockett, Louise	MP8a1.7	Evans, Brian	WA6.2
Cui, Zhiqiang	TA4.6	Evans, Brian	TP8a.9
D'Souza, Sunil	TA8a1.10	Evans, Brian	WA1.3
da Silva, Claudio	TP2.5	Favier, Gerard	TP8b.11
Dawui, Komi	WA2.1	Favier, Gerard	MP8a1.3
de Baynast, Alexandre	TA3b.2	Felber, Norbert	TA4.7
de Baynast, Alexandre	TA1.6	Feng, Haihua	TA5.8
de Baynast, Alexandre	TA1.3	Feng, Hanying	TP5.3
De Courville, Marc	TA8b.4	Feng, Lei	TP2.4
de Dinechin, Florent	TP4.7	Fichtner, Wolfgang	TA4.7
de Francisco, Ruben	MP7.1	Fliege, Norbert J.	MP8a2.13
de Lamare, Rodrigo	TA6.8	Forsythe, Keith	TP7.5
de Lamare, Rodrigo	TA8b.8	Franz, Stefan	MP1.4
de Lamare, Rodrigo	MP8a2.1	Friedlander, Benjamin	TP3.5
De Maio, Antonio	TA5.7	Friedlander, Benjamin	TP8b.5
DeBrunner, Victor	TP3.9	Fu, Dengwei	MP8a2.11
DeBrunner, Victor	MP5.1	Fung, Carrson	TA8b.11
Dehghan, Hossein	TA6.2	Fung, Carrson	TA8b.12
Del Re, Andrea	MA4b.3	Ganapathy, Viswanath	MP3.3
Del Re, Andrea	WA5a.2	Garcia-Luna-Aceves, J. J.	TP1.7
delCoso, Aitor	WA2.5	Garcia-Trevio, Edgar	TA8a2.5
Deloues, Thierry	TP7.9	Garg, Hari Krishna	MP8b.1
Detrey, Jeremie	TP4.7	Garg, Hari Krishna	WA6.8
Detwiler, Thomas	WA1.8	Gastpar, Michael	MP2.1
Dick, Chris	WA5a.3	Gaudet, Vincent	TA4.3
Dimitrov, Vassil	TA4.1	Ghosh, Subhas	MP3.3
Ding, Peilu	WA2.7	Giannakis, Georgios B.	TP2.1
Djapic, Relja	TP2.2	Giannakis, Georgios B.	TP1.5
Dogandzic, Aleksandar	TA8a2.11	Giannakis, Georgios B.	MP2.5
Dogandzic, Aleksandar	WA3.8	Gibson, Jerry D.	TA5.2
Dong, Bo	TP8b.9	Gibson, Jerry D.	MP5.3
Dong, Gang	MP4.8	Giese, Jochen	MP7.7

<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
Gilliam, Andrew	MP4.1	Huh, Heon	TP2.7
Girod, Bernd	TP5.1	Huh, Heon	TA7.8
Gooch, Richard	TA6.5	Hutchins, Gary	MP8b.14
Goparaju, Anil	TP1.3	Hwang, Suk-seung	TA6.7
Gorokhov, Alexei	TP3.4	Hwu, Jui-Te	MP8a1.10
Gosse, Karine	MA4b.4	Iacomacci, Francesco	MA4b.3
Govindasamy, Siddharta	MP8a2.2	Ibars, Christian	WA2.5
Gray, Robert M.	TP5.5	Ikehara, Masaaki	MA3b.2
Greco, Antonio Stefano	TA5.7	Ikehara, Masaaki	TA8a1.7
Gross, Warren	TA4.3	Iltis, Ronald A.	MP2.4
Guillaud, Maxime	MA4b.4	Iltis, Ronald A.	TA7.3
Guillen i Fabregas, Albert	MA4b.4	Intes, Xavier	MP4.2
Gunduz, Deniz	MA1b.4	Ituero, Pablo	TP8a.6
Gunes, Tuncay	TP3.7	Ives, Robert	TA8a1.1
Gunther, Jacob	TA8b.6	Jagannatham, Aditya	TA7.7
Gunther, Jacob	TA1.4	Jagannathan, Anupama	MA3b.1
Gunther, Jake	MP6.7	Jain, Manoj	TA4.8
Gunther, Jake	MP8b.3	Jalden, Joakim	TA1.1
Guo, Bin	MP4.6	Janiczek, Robert	MP4.1
Guo, Bin	MP4.7	Jayaweera, Sudharman	MP8a1.6
Guo, Li	WA4.4	Jenkins, W. Kenneth	MP6.5
Gupta, Malay	MP3.4	Jiang, Ruixiang	TA8a2.10
Gupta, Malay	TA8a2.9	Jiang, Yi	WA4.6
Gustafsson, Oscar	TA1.2	Jiang, Yi	TA3a.1
Gustafsson, Oscar	TP8a.4	Jin, Yuanwei	TA3a.1
Guvén, Murat	MP4.2	Joachim, Dale	MP6.4
Hadef, Mahmoud	TA6.6	Johansson, Kenny	TP8a.4
Hadef, Mahmoud	MP8a1.2	Jones, Douglas	WA1.8
Haene, Simon	TA4.7	Jones, Douglas	WA1.6
Han, Kyungtae	WA5a.1	Jorswieck, Eduard A.	TP8b.10
Hao, Jianzhong	MA4b.1	Jovicic, Aleksandar	WA8.1
Harris, David	TP4.9	Jullien, Graham	TA4.1
Heath, Jr., Robert W.	TA2.2	Juntti, Markku	WA2.8
Heath, Jr., Robert W.	MP7.3	Juntti, Markku	MA4b.2
Heath, Jr., Robert W.	WA4.7	Kallinger, Markus	TA8a1.9
Heath, Jr., Robert W.	MP7.2	Kamath, Ajith	WA7.5
Henkel, Oliver	TP6.7	Kamoun, Mohamed	TA8b.4
Hennedy, Michael	TP8a.1	Kan, Wen-Chih	TA7.2
Himed, Braham	TP7.6	Kandadai, Srivatsan	TP5.2
Hinds, Chris	TP4.6	Kang, Taehyuk	MP6.2
Hinds, Chris	TP8a.3	Kang, Wei	WA8.2
Hineline, Shawn	TA8a2.6	Kansanen, Kimmo	TA7.4
Hintikka, Juha-Matti	MA4b.2	Karadimou, Kiki	TA8a1.11
Hodgkiss, William	WA4.3	Karami, Ebrahim	MP8a1.1
Holt, Keith	TP6.2	Karami, Ebrahim	MP8a1.11
Holzer, Martin	TP8a.10	Karami, Ebrahim	TP8b.6
Hosseinzadeh, Ashkan	TP8a.2	Karjalainen, Juha	TA7.4
Host-Madsen, Anders	WA8.4	Karkooti, Marjan	WA5a.3
Hottinen, Ari	WA1.5	Karl, William	TA5.8
Hu, Chia-Chang	TA3a.3	Karp, Tanja	TA8a1.2
Hu, Chia-Chang	TA8a2.3	Kazanci, Oguz R.	TP7.7
Hu, Jing	TA5.2	Kechichian, Patrick	TA8a1.5
Huang, Wei	MP4.3	Keller, David	MP8a1.9
Huang, Yih-Fang	WA4.4	Kelley, Kyle	TP4.9
Hughes, Brian	WA7.5	Kennell, Lauren	TA8a1.1
Hughes, Brian	MA7b.2	Khan, Aurangzeb	MP8b.10
Hughes, Brian	TP6.5	Khan, Aurangzeb	MP8b.5
Hughes, Brian	WA4.8	Khan, Khalid	MP8b.10
Huh, Heon	WA1.7	Khan, Khalid	MP8b.5

<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
Khan, Mohammad	MP8b.10	Lai, Bo-Cheng Charles	WA5b.4
Khan, Mohammad	MP8b.5	Lai, Hung	WA7.2
Khojastepour, Mohammad Ali	TA2.4	Lam, Kin-Hung	TP8a.9
Khorasani, Kash	TP8b.4	Lang, Tomas	TP4.1
Kiasaleh, Kamran	WA2.3	Lanvin, Patrick	TA5.6
Kibangou, Alain	MP8a1.3	Larsson, Erik G.	MA6b.3
Kim, Hyungjin	TP5.4	Lashkari, Khosrow	MP6.3
Kim, Kyeong Jin	TA7.3	Latva-aho, Matti	WA2.8
Kim, Kyeong Jin	WA2.2	Lee, Frederick	WA2.4
Kim, Thanh Tung	TA2.3	Lee, Frederick	TA8b.7
Knerr, Bastian	TP8a.10	Lee, Huang	WA3.7
Koh , Choo Leng	WA7.1	Leese de Escobar, Anna	TP8a.11
Kohno, Ryuji	TP6.1	Lei, Zhongding	TA1.5
Koivunen, Visa	TP8b.2	Lelescu, Dan	WA6.7
Koivunen, Visa	TP7.2	Leon, Wing Seng	TA1.7
Koivunen, Visa	TA7.6	Leon, Wing Seng	MP8a2.12
Koivunen, Visa	MP3.2	Leus, Geert	TP2.2
Kok, Chi-Wah	TP5.8	Levasseur, Cecile	MP8b.6
Kok, Chi-Wah	TA8b.11	Li, Bing	MP4.5
Kok, Chi-Wah	TA8b.12	Li, Hongbin	TP7.6
Kovaci, Maria	TA1.6	Li, Hongbin	TA8a2.13
Kramer, Gerhard	WA8.6	Li, Jian	WA4.6
Kreutz-Delgado, Kenneth	MP8b.6	Li, Jian	MP4.6
Krishnamurthy, Sandeep	MA7b.2	Li, Jian	MP4.7
Krishnamurthy, Sandeep	WA4.8	Li, Jian	MP1.1
Krishnamurthy, Vikram	TA8a2.1	Li, Jing	TA2.7
Krishnamurthy, Vikram	MA5b.4	Li, Jing	MP3.1
Krishnamurthy, Vikram	WA3.5	Li, Tongtong	MA6b.4
Krishnamurthy, Vikram	MP2.7	Li, Tongtong	TP8b.12
Krogmeier, James V.	WA1.7	Li, Xiaohua	MP8a1.10
Krogmeier, James V.	TP2.7	Li, Xiaohua	MP8a2.14
Krogmeier, James V.	TA7.8	Li, Xiaokun	MP8b.11
Krolik, Jeffrey L.	TP7.4	Li, Yuan	TP8b.14
Krolik, Jeffrey L.	TP7.7	Li, Zaiqing	MA4b.4
Krongold, Brian	WA1.6	Liang, Hongkang	TA8a1.3
Krongold, Brian	WA1.4	Liang, Ying Chang	TP8b.14
Kubichek, Robert	TA8a1.3	Liang, Ying-Chang	TA1.7
Kuchi, Kiran	TP7.1	Liang, Ying-Chang	MP8a2.12
Kucukkabak, Umut	TP8a.8	Lim, Johan	TP5.5
Kumar, Akash	TA8b.5	Lim, Joo Ghee	MP1.7
Kumar Singh, Ravindra	TA4.8	Limingoja, Matti	MA4b.2
Kuo, C.-C. Jay	TA8b.3	Lin, Ching-Shun	MA3b.4
Kuo, C.-C. Jay	WA1.1	Lin, Ying	TA8a2.10
Kwan, Chiman	MP8b.11	Ling, Qi	MA6b.4
Kwan, Man-Wai	TA8b.11	Ling, Qi	TP8b.12
Kwan, Man-Wai	TA8b.12	Liu, Bin	TA2.5
Kwok, Yuen Sam	TA1.5	Liu, Hui	TA2.5
Kwon, Hyuck	WA7.3	Liu, Liu	MP8a2.5
Kwon, Hyuck	WA3.6	Liu, YouJian	TP1.3
Kyriakakis, Chris	MA3b.4	Long, Eric	MA5b.3
Kyriakakis, Chris	TP8b.1	Lopez-Vallejo, Marisa	TP8a.6
Kyriakakis, Chris	MP5.8	Love, David J.	WA2.7
Kyriakakis, Chris	MP5.7	Love, David J.	MP7.8
Kyriakides, Ioannis	MA5b.2	Lu, Xiquan	TA5.5
Kyritsi, Persefoni	TP7.3	Luethi, Peter	TA4.7
L. F. de Almeida, Andre	TP8b.11	Lundberg, Magnus	WA7.2
Laakso, Timo	MP8a1.5	Luo, Xiliang	TP2.1
Labeau, Fabrice	TA8a1.5	Lutz, David	TP4.6
Lacatus, Catalin	MP8a2.8	Lutz, David	TP8a.3



<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
M. de Moraes, Renato	TP1.7	Muller, Jean-Michel	TP8a.7
Ma, Qian	TP6.3	Murali, Beddhu	MP4.4
MacEwen, Neil	MP8a1.8	Myllyla, Markus	MA4b.2
MacEwen, Neil	MP8a1.7	Nadakuditi, Raj Rao	WA7.7
Madhow, Upamanyu	TP3.2	Nafie, Mohammed	MP8a2.4
Madihian, Mohammad	TA2.4	Namgoong, Won	TP2.4
Malboubi, Mehdi	TP3.6	Nannarelli, Alberto	WA5a.2
Mandyam, Giridhar	MP1.8	Narayanan, Shrikanth	MP2.3
Mansour, Mohammad	TA4.2	Nayeb Nazar, Shahrokh	TP2.3
Marathe, Devdutt	WA4.5	Nemati, Majid	MP1.3
Maric, Ivana	WA8.3	Ng, Fan	MP8a1.10
Marino, Claudio	TP8b.3	Ng, Fan	MP8a2.14
Marple Jr., S. Lawrence	WA3.2	Ng, Tek Ming	WA6.8
Martin, Richard	TA6.1	Ngo, Chiu	TA8b.10
Martina, Maurizio	TP3.3	Ngo, Minh Hanh	MP2.7
Martina, Maurizio	TP8a.5	Nguyen, Truong	WA6.6
Masera, Guido	TP3.3	Nguyen, Truong	TA5.3
Masera, Guido	TP8a.5	Nguyen, Truong	TA5.1
Matsumoto, Tad	TA7.4	Nie, Hong	MP8a2.3
Mattellini, Gian Paolo	TP7.1	Niu, Huaning	TA8b.10
Mazet, Laurent	TA8b.4	Norris, John	MP8b.7
McIlhenny, Robert	TP4.4	Nosratinia, Aria	TA2.6
Mecklenbraeucker, Christoph	TP6.4	Nosratinia, Aria	MA2b.4
Medda, Alessio	TP3.9	Nosratinia, Aria	MP8b.9
Meesookho, Chartchai	MP2.3	Nosratinia, Aria	MA2b.3
Mehlfuehrer, Christian	TP6.4	Novak, Leslie	MP8b.13
Melvasalo, Maarit	TP7.2	Noyer, Jean-Charles	TA5.6
Mertins, Alfred	TA8a1.9	Ochi, Akihiro	MA3b.2
Miet, Xavier	MA4b.4	Odelowo, Babafemi	WA7.6
Milanfar, Peyman	WA6.3	Ohm, David	WA3.2
Miller, Eric	MA3b.1	Oklobdzija, Vojin	TP4.2
Milner, Aaron	TA4.3	Oprea, Alex	TP7.3
Milstein, Laurence	TP2.5	Ortega, Antonio	TA5.4
Minoo, Koohyar	TA5.1	Oteri, Oghenekome	WA2.4
Mir Mohammad Sadeghi, Hamid	TP3.6	Oteri, Oghenekome	TA8b.7
Mirmoeini, Farnoush	MA5b.4	Ottersten, Bjorn	TA1.1
Misra, Kamal Kant	WA6.1	Ottersten, Bjorn	MP7.6
Mitra, Urbashi	MP1.4	Ouachani, Ilhem	TP1.2
Mo, Ronghong	TA8a2.4	Ozonat, Kivanc	TP5.6
Mohammadpour Velni, Javad	TP8b.4	Pal, Siddharth	MP6.5
Mohiyuddin, Marghoob	TA4.4	Palomar, Daniel P.	MP7.6
Mokrian, Pedram	TP4.5	Pande, Tarkesh	TP2.7
Molino, Andrea	TP3.3	Pande, Tarkesh	TA7.8
Molino, Andrea	TP8a.5	Papandreou-Suppappola, Antonia	MA5b.2
Mondal, Bishwarup	MP7.3	Papanicolaou, George	TP7.3
Montalbano, Giuseppe	MA6b.1	Parajuli, Ashish	MP5.1
Moon, Todd	MP8a1.9	Parhi, Keshab K.	MP6.6
Moon, Todd	TA8b.6	Parhi, Keshab K.	TA4.5
Moon, Todd	TA1.4	Patro, Ranjeet	MP3.3
Morrell, Darryl	MA3b.3	Paulraj, Arogyaswami	TA1.8
Morrell, Darryl	MA5b.2	Paulraj, Arogyaswami	WA2.4
Mota, Joao Cesar	TP8b.11	Paulraj, Arogyaswami	TA2.1
Mouchtaris, Athanasios	TA8a1.11	Paulraj, Arogyaswami	MA7b.1
Moura, Jose	TA3a.1	Peden, Alain	MA4b.4
Moura, Jose	MP2.8	Perels, David	TA4.7
Mu, Yi	MP4.4	Peterson, J. Michael	TP8b.1
Mujtaba, Syed Aon	TP8a.6	Petropulu, Athina	TA8b.9
Muller, Jean-Michel	TP4.3	Pezeshki, Ali	WA7.2

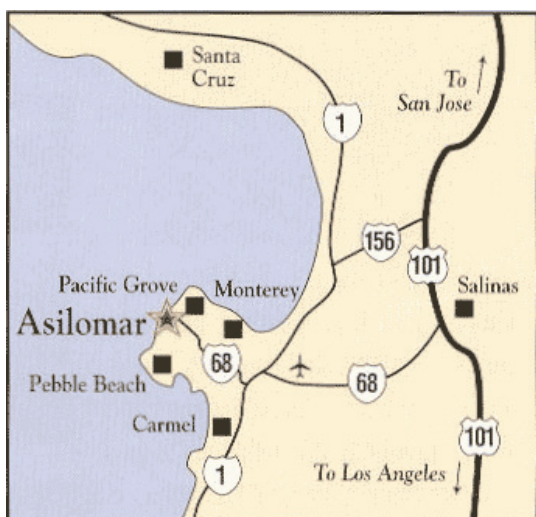
<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
Pfann, Eugen	MP8a1.8	Saidi, Ali	MP8a2.6
Pfann, Eugen	MP8a1.7	Samadani, Ramin	TP5.7
Pillutla, Laxminarayana	WA3.5	Samadani, Ramin	MP5.4
Powers, Edward J.	MP8a2.10	Samanta, Roopsha	MP7.2
Prabhu, V. K.	TP7.1	Sampaio-Neto, Raimundo	TA6.8
Prakash, Amit	TA4.4	Sampaio-Neto, Raimundo	TA8b.8
Prendergast, Ryan	WA6.6	Sampaio-Neto, Raimundo	MP8a2.1
Prieto, Germn A.	TA8a2.7	Sanayei, Shahab	TA2.6
Psaromiligkos, Ioannis	TP2.3	Sandgren, Niclas	TP8b.13
Pyun, Kyungsuk (Peter)	TP5.5	Sandhu, Sumeet	TP6.2
Qiu, Peiliang	TP8b.9	Santhanam, Balu	MP3.4
Qiu, Qinru	TP8b.9	Santhanam, Balu	TA8a2.9
Rabideau, Daniel	WA3.4	Sanubari, Junibakti	MP8b.2
Rabideau, Daniel	TA6.3	Sarvotham, Shriram	WA3.1
Radosavljevic, Predrag	TA1.3	Sarvotham, Shriram	MA1b.2
Rahman, M. Shahidur	MP5.2	Sawitzki, Sergei	TA8b.5
Ramirez-Mireles, Fernando	TA8b.2	Sawitzki, Sergei	TA8b.5
Rana, Ram Singh	MP8b.1	Scharf, Louis L.	WA7.2
Rankov, Boris	TP1.8	Schaumont, Patrick	WA5b.4
Rao, Bhaskar	TA7.7	Schellmann, Malte	MP8a1.12
Rao, Bhaskar	MA7b.3	Schnurr, Clemens	MA6b.2
Rao Nadakuditi, Raj	WA7.8	Scholtz, Robert	MP1.3
Rasor, Gregg	TA8a2.14	Scholtz, Robert	TP2.8
Ratnarajah, Tharmalingam	MA7b.4	Schubert, Martin	TP8b.10
Ratnarajah, Tharmalingam	WA2.6	Seidel, Peter-Michael	WA5b.2
Re, Marco	MA4b.3	Selen, Yngve	MA6b.3
Re, Marco	WA5a.2	Sellathurai, Mathini	TA3b.1
Reed, Mark	TA7.1	Sen, Debashis	WA6.4
Reed, Mark	TA8a2.12	Seo, Munkyo	TP3.2
Reed, Mark	TA3a.4	Serrano, Salvatore	MP8b.8
Reynolds, Daryl	TP1.6	Servetto, Sergio D.	WA8.8
Riaz, Usman	TA8b.3	Sezgin, Aydin	TP6.7
Ribeiro, Alejandro	MP8a2.7	Shah, Harsh	MP8b.9
Ribeiro, Alejandro	MP2.5	Shah, Himanshu	MA3b.3
Ribeiro, Cassio	TA7.6	Shah, Syed Faisal	MP2.5
Ribeiro Dias, Alexandre	MA4b.4	Shalash, Ahmed	MP8a2.4
Ricci, Giuseppe	TA5.7	Shalash, Ahmed	MP6.8
Rice, Bart	MA5b.3	Shalash, Ahmed	TP8a.1
Richmond, Christ	WA7.7	Shen, Zukang	TA2.2
Richter, Andreas	TP8b.2	Shepherd, David	TA8a2.12
Richter, Andreas	TA7.6	Shi, Shuying	TP8b.10
Ritcey, James	WA4.2	Shi, Zhenning	TA8a2.12
Rodwell, Mark	TP3.2	Shi, Zhijie	WA5b.1
Romero-Jerez, Juan	TP8b.7	Shimamura, Tetsuya	MP5.2
Rouchy, Christopher	TP8b.8	Shimamura, Tetsuya	MP8b.4
Rouquette, Stephanie	MA4b.4	Shin, Changyong	MP8a2.10
Roy, Sumit	TA2.5	Shirai, Keiichiro	TA8a1.7
Roy Choudhury, Subham	TA4.8	Shynk, John	TA6.7
Ruan, Matt	TA8a2.12	Shynk, John	TA6.5
Rupp, Markus	TP6.4	Shynk, John	MP6.2
Rupp, Markus	MP8a1.5	Sikora, Thomas	TA8a1.4
Rupp, Markus	TP8a.10	Simard, Stephane	TP8a.7
Russo, Alessandra	MP8b.8	Singh, Manjeet	TA1.5
Sabharwal, Ashutosh	TA3b.2	Singh, R. K.	TP3.1
Sabir, Muhammad	WA4.7	Siqueira, Glucio	TA8b.1
Sadjadpour, Hamid	TP8b.8	Skoglund, Mikael	TA2.3
Sadjadpour, Hamid	TP1.7	Skoglund, Mikael	MP7.7
Sadjadpour, Hamid	TA2.7	Skoglund, Mikael	MA1b.3
Sadler, Brian	MP1.2	Sloat, Shon	TP8a.11

<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
Slock, Dirk T. M.	MA4b.4	Tisserand, Arnaud	TP4.3
Slock, Dirk T. M.	MA6b.1	Tong, Lang	MP2.2
Slock, Dirk T. M.	WA2.1	Toutain, Yann	MA4b.4
Slock, Dirk T. M.	MP7.1	Tran, Denis	TA8a1.5
Slock, Dirk T. M.	TA3a.2	Triki, Mahdi	TA3a.2
Sobelman, Gerald	TA7.2	Tsai, Shang-Ho	WA1.1
Sohn, Kwang June	TP7.6	Tsakalides, Panagiotis	TA8a1.11
Song, Wang	MP6.7	Tseng, Ivy	TA5.4
Song, Wang	MP8b.3	Tujkovic, Djordje	TA1.8
Sonkar, Prem	TP3.1	Tummala, Murali	TA6.4
Spencer, Nicholas	TP3.4	Turley, Michael	MA5b.1
Spencer, Nicholas	MA5b.1	Ulukus, Sennur	WA8.2
Sriraja, Y.	TA8a1.2	Vacca, Fabrizio	TP3.3
Staelin, David H.	MP8a2.2	Vacca, Fabrizio	TP8a.5
Stancil, Dan	TA3a.1	Vaidyanathan, P. P.	MA2b.1
Stanczak, Slawomir	MA6b.2	Vaidyanathan, P. P.	MP1.5
Stanczak, Slawomir	MP8a1.12	Vajapeyazula, Phani	TP1.1
Stanczak, Slawomir	MA2b.2	van der Veen, Alle-Jan	TP2.2
Stauffer, Erik	TA1.8	van Vugt, Peter	MP3.5
Stauffer, Erik	TP6.2	Vanam, Rahul	MP5.5
Stewart, Robert	MP8a1.8	Vandborg Sorensen, Karsten	WA6.5
Stewart, Robert	MP8a1.7	Vang Andersen, Soren	WA6.5
Stoica, Peter	TP7.3	Varanasi, Mahesh	TP1.1
Stoica, Peter	MP4.6	Vardhe, Kanchan	TP1.6
Stoica, Peter	TP8b.13	Varodayan, David	TP5.1
Su, Borching	MA2b.1	Veeravalli, Venugopal	WA3.3
Subramanian, Ananth	MP1.7	Venkataraman, Vishwanath	TA6.5
Sui, Haichang	WA4.1	Verbauwhede, Ingrid	WA5b.4
Sun, Sumei	MA4b.1	Vernon, Frank	TA8a2.7
Sun, Sumei	TP8b.14	Veselinovic, Nenad	TA7.4
Suryavanshi, Vijay	MA2b.3	Vieira, Robson	TA8b.1
Suter, Bruce	TA8a2.10	Villard, Gabriel	TP6.1
Svantesson, Thomas	MA7b.3	Villasenor, John D.	TP5.4
Swami, Ananthram	MP2.2	Vincent, Francois	TP7.9
Swamy, M. N. S.	WA6.4	Vincent, Patrick	TA6.4
Swartzlander, Jr., Earl E.	TP4.8	Visvakumar, Aravinthan	MP8a1.6
Swartzlander, Jr., Earl E.	WA5a.1	Viswanath, Pramod	MA1b.1
Swindlehurst, A. Lee	TP3.8	Viswanath, Pramod	WA8.1
Sworder, Dave	MP8b.14	Vu, Mai	TA2.1
Tadjpour, Layla	WA1.1	Vu, Mai	MA7b.1
Takeda, Hiroyuki	WA6.3	Wahid, Khan	TA4.1
Tan, Peiyu	MP3.1	Wakin, Michael	WA3.1
Tanaka, Hirobumi	MP8b.4	Wang, Huahui	MA6b.4
Tanaka, Yuichi	MA3b.2	Wang, Huahui	TP8b.12
Tang, Bin	MP8b.1	Wang, Jiachi	TA8a2.2
Tao, Hailiang	TP7.4	Wang, Jiachi	TA3b.4
Tavildar, Saurabha	MA1b.1	Wang, Jia-Ching	MP5.6
Tay, Peter	MP4.5	Wang, Jianqi	MP7.5
Tayem, Nizar	WA7.3	Wang, Jiong	MP3.7
Tayem, Nizar	WA3.6	Wang, Ping	TP3.9
Taylor, Robert	MP7.4	Wang, Renqiu	TA7.5
Tekin, Ender	WA8.5	Wang, Renqiu	TP1.5
Teng, Feng	WA2.3	Wang, Sheng-Fu	TA8a2.3
Tepedelenioglu, Cihan	TP6.3	Wang, Tairan	TP1.4
Thai, Hieu	TP3.9	Wang, Xiaodong	TP6.6
Thejaswi, Chandrashekhara	MP3.3	Wang, Xiaodong	TA2.4
Thomas, Joseph	TA8a2.6	Wang, Xiaofang	WA5b.3
Thomson, David J.	TA8a1.12	Wang, Xin	MP8a2.7
Thomson, David J.	TA8a2.7	Wang, Zhijin	TP5.8

<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
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
Wiczanowski, 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		
Yearly, 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

# Notes



**SS&C Conf. Corp.**

**P.O. Box 8236**

**Monterey, CA 93943**