

**FORTIETH  
ASILOMAR CONFERENCE ON  
SIGNALS, SYSTEMS AND  
COMPUTERS**

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



**October 29 - November 1, 2006**  
Asilomar Hotel and  
Conference Grounds

**In Cooperation with**

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

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**FORTIETH  
ASILOMAR CONFERENCE ON  
SIGNALS, SYSTEMS & COMPUTERS**

**Organized in cooperation with**

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**Welcome from the General Chairman**

Prof. Scott Acton, University of Virginia

Happy Birthday Asilomar! The Asilomar Conference on Signals, Systems and Computers is 40. The Asilomar Conference stands in stark contrast to its peer conferences in communications and signal processing. I cherish the relaxed atmosphere, the kitschy cabins on the striking Pacific coast, the family-style meals, and the high-quality interaction of the workshop-like sessions.

The Sydney Parker Memorial Lecture will be given by Professor Kim Mish, Presidential Professor of Structural Engineering at the University of Oklahoma. Dr. Mish will answer the question of "Why Structural Health Monitoring Needs Signal Processing Researchers." After meeting Kim at Mickey Mantle's Steakhouse (no kidding), I am confident that his talk will be both stimulating and challenging.

The conference includes a student paper contest that highlights the finalists who will present posters on Sunday evening. I hope that Asilomar will always be an inviting place for aspiring graduate students making their first conference presentations.

This year's technical program features exciting advances in traditional and MIMO communication systems, networking, adaptive systems, array processing, biomedical signal and image processing, multi-rate processing, architectures, hardware implementation, and speech, image and video processing. The person who made this exciting program possible is Dr. Victor DeBrunner, Professor and Chair of ECE at Florida State University. Please join me in thanking Victor for his effort to make this a memorable, high quality conference. Victor recruited top-rate technical area chairs who, without exception, recruited session chairs and invited papers from the world's top researchers in the area. Victor did a wonderful job of managing the 558 submitted papers (including 211 invited papers) and creating this year's set of extraordinary sessions.

I would also like to thank the remainder of the Conference Committee, the Steering Committee and the Technical Area Chairs. Special thanks go to Dr. Monique Fargues, who knows all things Asilomar, and to Sue Netzorg, who has been the administrative force behind the program and the registration process for a number of years.

Enjoy Asilomar.

Scott Acton, University of Virginia, July 2006

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## 2006 Asilomar Conference Session Schedule

### Sunday Afternoon, October 29

2:00 - 7:00 PM Registration – Main Lodge  
5:00 - 6:30 PM Student Paper Contest – Merrill Hall  
7:00 - 9:00 PM Welcoming Reception – Merrill Hall

### Monday Morning, October 30

7:30 - 9:00 AM Breakfast – Crocker Dining Hall  
8:00 AM - 6:00 PM Registration  
8:15 - 9:45 AM MA 1a – Conference Opening and Plenary Session  
9:45 - 10:15 AM Coffee Social

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

MA1b Capacity of Ad Hoc Networks  
MA2b MIMO Radar  
MA3b Temporal Analysis and Mining in Multimedia  
MA4b Advances in Medical Imaging  
MA5b DSP Architectures and Implementations  
MA6b MIMO Ad Hoc Networks  
MA7b Adaptive Systems for Communications

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

### Monday Afternoon, October 30

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

MP1a Functional Imaging  
MP1b Advanced Optical Techniques for Biology  
MP2 Multi-user Information Theory  
MP3 Adaptive Filters  
MP4 Sensor Networks  
MP5 Computer Arithmetic  
MP6 Multi-user MIMO Methods  
MP7 Image and Video Processing  
MP8a1 Performance Analysis for Communications (Poster)  
MP8a2 Statistical Signal Processing and Applications I (Poster)  
MP8b1 Biometrics and Security in Image Processing (Poster)  
MP8b2 Wireless Networks (Poster)

### Monday Evening, October 30

6:30 - 9:30 PM Conference Cocktail/Social – Merrill Hall  
The Cocktail/Social takes the place of Monday's dinner. No charge for conference attendees or their guest.

## 2006 Asilomar Conference Session Schedule

(continued)

### Tuesday Morning, October 31

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 Active Sensing and Waveform Diversity  
TA2 MIMO Scheduling  
TA3 Computer-aided Diagnosis  
TA4 Applications of Multirate DSP  
TA5 VLSI Digital Signal Processing  
TA6 MIMO Channel Modeling  
TA7 Models for Image and Video Processing  
TA8a1 Adaptive Systems and Algorithms (Poster)  
TA8a2 Video Coding and Analysis (Poster)  
TA8a3 Speech and Audio Processing (Poster)  
TA8b1 DSP Applications and Systems (Poster)  
TA8b2 Statistical Signal Processing and Applications II (Poster)  
TA8b3 Space-Time Coding (Poster)

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

### Tuesday Afternoon, October 31

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

TP1 Topics in Speech Processing for Next Generation Systems  
TP2 Resource Allocation in Networks  
TP3a Sparse Adaptive Systems  
TP3b Blind Source Separation  
TP4 Detection and Estimation  
TP5 Integrated Algorithms and Architectures  
TP6 MIMO Systems with Limited Feedback  
TP7a Advanced Beamforming in Medical Imaging  
TP7b Remote Sensing  
TP8a1 MIMO Systems (Poster)  
TP8a2 Numerical Processing (Poster)  
TP8b1 OFDM (Poster)  
TP8b2 Biomedical Applications (Poster)

### Tuesday Evening, October 31

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

## 2006 Asilomar Conference Session Schedule (continued)

### Wednesday Morning, November 1

- 7:30 - 9:00 AM Breakfast – Crocker Dining Hall
- 8:00 AM - 12:00 PM Registration – **Copyright Forms** must be turned in before the registration closes at 12:00 noon.
- 8:30 AM - 12:10 PM MORNING SESSIONS
- WA1a Geospatial Image Processing
- WA1b Super-resolution Image and Video Enhancement
- WA2a Distributed Optimization in Wireless Communications
- WA2b Emerging Applications of Communication Theory
- WA3a Clinical and Pharmaceutical Imaging
- WA3b Biomedical Signal and Image Processing
- WA4 Nonlinear Filtering and Target Tracking
- WA5a Reconfigurable Computing
- WA5b Low Power Techniques
- WA6 MIMO Equalization
- WA7a Audio Coding and Processing
- WA7b Wireless Networks
- WA8a1 Coding, Decoding, and Receiver Design (Poster)
- WA8a2 Array Signal Processing (Poster)
- 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 29, in Merrill Hall. Setup begins at 4:00PM. Judging begins at 5:00PM. Posters remain for the duration of the Welcoming Reception.

### Category A – Communications Systems and Networking

*“Joint Design and Separation Principle for Opportunistic Spectrum Access”*

Yunxia Chen, University of California, Davis; Qing Zhao, University of California, Davis; Ananthram Swami, Army Research Laboratory

### Category B – Adaptive Systems and Processing

*“Steady-State Performance Comparison of Bayesian and Standard Adaptive Filtering”*

Tayeb Sadiki, Dirk T. M. Slock, Eurocom Institute, Sophia Antipolis, France

### Category C – Array Processing and Statistical Signal Processing

*“Topology for Global Average Consensus”*

Soumya Kar, Carnegie Mellon University; Jose Moura, Carnegie Mellon University

### Category D – Biomedical Signal and Image Processing

*“Particle Filter Tracking of Multiple Rolling Leukocytes in Vivo”*

Jing Cui, University of Virginia; Scott Acton, University of Virginia; Zongli Lin, University of Virginia

### Category F – Architecture and Implementation

*“Real-Time Processing of Ultrasound Images with Speckle Reducing Anisotropic Diffusion”*

Wenqian Wu, University of Virginia; Scott Acton, University of Virginia; John Lach, University of Virginia

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

*“Video Modeling via Spatio-Temporal Adaptive Localized Learning (STALL)”*

Yunfei Zheng, West Virginia University; Xin Li, West Virginia University

## 2006 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, October 30

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

1. Welcome from the General Chairperson:

**Prof. Scott Acton**  
University of Virginia

2. Session MA1a      Sidney Parker Memorial Lecture for the  
2006 Asilomar Conference

**Kyran Daniel John Mish**  
Presidential Professor of Structural Engineering  
Director, Fears Structural Engineering Laboratory  
School of Civil Engineering and Environmental Science  
The University of Oklahoma  
Phone: (405) 325-1010  
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#### **Why Structural Health Monitoring Needs Signal Processing Researchers**

##### **Abstract**

Structural health monitoring has become one of the most important research venues in the engineering profession. The need to evaluate the current health of critical structures, including levees, pipelines, dams, tunnels and high-rise buildings, is a capability that is essential for timely societal response to extreme events such as earthquakes, hurricanes, tornados, or terrorist attacks. Much of the current research in structural health monitoring is based on classical structural dynamics techniques, which serve to limit the applicability of the monitoring effort to relatively low levels of damage. These constraints are in substantial part due to the nature of how structural engineers idealize mechanical systems,

including serious oversimplifications on the nature of transient response. Electrical engineering curricula stress an understanding of systems analysis and transient response that is often much more relevant towards understanding the dynamic response of large structures. Hence the field of electrical engineering offers great advantages for advancing the state of the art of structural health monitoring in areas ranging from sensor design to signal processing, and electrical engineering sensibilities are essential for successful research efforts in this all-important engineering field.

##### **Biography**

Kyran (Kim) Mish received his B.S. in Mathematics, his M.S. in Structural Mechanics, and his Ph.D. in Computational Mechanics, all from the University of California, Davis, in 1981, 1985, and 1987, respectively. He is currently a Presidential Professor of Structural Engineering and Director of the Fears Structural Engineering Laboratory at the University of Oklahoma, where he does work in structural mechanics and computational engineering. He has a productive history in engineering practice, including service as a faculty member at the University of California at Davis, professional practice as a bridge engineer in California, and management experience as the founding director of the Center for Computational Engineering at Lawrence Livermore National Laboratory. His current research efforts are in earthquake engineering and national security venues.

**Program of 2006  
Asilomar Conference  
on  
Signals, Systems, and Computers**

**Technical Program Chairman  
Victor DeBrunner  
Florida State University**

**Session MA1b Capacity of Ad Hoc Networks**

Chair: *Jeff Andrews*

- MA1b-1 Regularity, Interference, and Capacity of Large Ad Hoc Networks 10:15 AM  
*Martin Haenggi, Radha Krishna Ganti, University of Notre Dame*
- MA1b-2 On the link Ergodic Capacity of MIMO MANETs using Cooperation 10:40 AM  
*Renato Moraes, Federal University of Santa Catarina; Hamid Sadjadpour, J. J. Garcia-Luna-Aceves, University of California, Santa Cruz*
- MA1b-3 Transmission capacity of wireless ad hoc networks with channel variations 11:05 AM  
*Steven Weber, Drexel University; Jeffrey Andrews, University of Texas at Austin*
- MA1b-4 Two-Scale Wireless Networks 11:30 AM  
*Radhika Gowaikar, Babak Hassibi, California Institute of Technology*
- MA1b-5 Loss and Jitter in Communication Networks - An Information Theoretic Perspective 11:55 AM  
*Syed Jafar, University of California, Irvine*

**Session MA2b MIMO Radar**

Chair: *Jian Li*

- MA2b-1 Coherent Multiple-Input Multiple-Output Radar with Transmit and Receive Adaptivity 10:15 AM  
*Frank C. Robey, Scott Coultts, Massachusetts Institute of Technology Lincoln Laboratory*
- MA2b-2 High Resolution Capabilities of MIMO-Radar 10:33 AM  
*Nikolaus Lehmann, Alexander Haimovich, New Jersey Institute of Technology; Rick Blum, Lehigh University; Len Cimini, University of Delaware*
- MA2b-3 On Probing Pulse Design for MIMO Radar 10:51 AM  
*Jian Li, University of Florida; Petre Stoica, Uppsala University; Yao Xie, University of Florida*
- MA2b-4 MIMO Radar Ambiguity Functions 11:09 AM  
*Geoffrey San Antonio, Daniel Fuhrmann, Washington University in St. Louis*
- MA2b-5 Combined Generalized Likelihood Ratio Processing Method for Multistatic Radar Systems 11:27 AM  
*Amin G. Jaffer, Bruce W. Evans, Raytheon Space and Airborne Systems; Peter Zulch, Air Force Research Laboratory; Muralidhar Rangaswamy, USAF AFRL*
- MA2b-6 Beamforming issues in modern MIMO Radars with Doppler 11:45 AM  
*Chun-Yang Chen, P. P. Vaidyanathan, California Institute Of Technology*

### Session MA3b Temporal Analysis and Mining in Multimedia

Chair: *Lexing Xie*

- MA3b-1 Multicue segmentation of spoken conversations 10:15 AM  
*S. Basu, S. Gupta, Microsoft Research*
- MA3b-2 Modeling speech dynamics with probabilistic graphical models 10:40 AM  
*M. Reyes-Gomez, N. Jojic, Microsoft Research; D. Ellis, Columbia University*
- MA3b-3 Guided multimedia pattern mining 11:05 AM  
*Lexing Xie, Shahram Ebadollahi, IBM Research*
- MA3b-4 The Computational Extraction of Spatio-Temporal Phrasing Structures in Solo Multimodal Dance 11:30 AM  
*Vidvarani Dyaberi, Hari Sundaram, Thanassis Rikakis, Jodi James, Gang Qian, Arizona State University*
- MA3b-5 Merging Segmentations of Low-level and Mid-level Time Series for Audio Class Discovery 11:55 AM  
*Regunathan Radhakrishnan, Ajay Divakaran, Mitsubishi Electric Research Labs.*

### Session MA4b Advances in Medical Imaging

Chair: *Rohit Bhargava*

- MA4b-1 Distinguished photons: advances in multispectral imaging approaches for in-vivo fluorescence imaging 10:15 AM  
*James Mansfield, Richard Levenson, CRI*
- MA4b-2 Optical Sectioning of Live Cells via Hyperspectral Confocal Fluorescence Imaging 10:40 AM  
*David Haaland, Howland Jones, Michael Sinclair, Roberto Rebeil, David Melgaard, Sandia National Laboratories*
- MA4b-3 Infrared and Raman Micro-Spectroscopy of Cells: Toward an Understanding of the Spectral Features that Distinguish Normal from Cancerous Cells. 11:05 AM  
*Max Diem, Northeastern University*
- MA4b-4 Multimodal microscopy for im vivo imaging of tissue microstructure 11:30 AM  
*Stavros Demos, Lawrence Livermore National Laboratory*
- MA4b-5 Data processing for tissue histopathology using IR spectral data 11:55 AM  
*Rohit Bhargava, Frances Keith, Rong Kong, Anusha Priya, University of Illinois at Urbana-Champaign*

### Session MA5a DSP Architectures and Implementations

Chair: *Joseph R. Cavallaro*

- MA5a-1 Automatic floating-point to fixed-point transformations 10:15 AM  
*Kyungtae Han, Alex G. Olson, Brian L. Evans, University of Texas at Austin*
- MA5a-2 Transport Triggered Architecture Processor for Mixed-Radix FFT 10:40 AM  
*Teemu Pitkänen, Risto Mäkinen, Jari Heikkinen, Tero Partanen, Jarmo Takala, Tampere University of Technology*
- MA5a-3 Technology Driven DSP Architecture Optimization within a High-Level Block Diagram Based Design Flow 11:05 AM  
*Dejan Markovic, Brian Richards, Robert Brodersen, University of California, Berkeley*
- MA5a-4 FPGA Implementation of Dynamic Threshold Sphere Detection for MIMO Systems 11:30 AM  
*Kiarash Amiri, Joseph R. Cavallaro, Rice University*
- MA5a-5 Structured Interleavers and Decoder Architectures for Zigzag Codes 11:55 AM  
*Tejas Bhatt, Victor Stolpmann, Nokia Inc.*

### Session MA6b MIMO Ad hoc Networks

Chair: *Jim Zeidler*

- MA6b-1 Medium Access Control for Multi-Antenna Networks using Multi-User Coding 10:15 AM  
*Christopher Shaw, Christian Peel, A. Lee Swindlehurst, Brigham Young University*
- MA6b-2 Performance of Transmit Precoding in Time-Varying Point-to-Point and Multi-User MIMO Channels 10:40 AM  
*Adam Anderson, James Zeidler, University of California, San Diego; Michael Jensen, Brigham Young University*
- MA6b-3 Exploiting Diversity Gain in MIMO Equipped Ad hoc Networks 11:05 AM  
*Ece Gelal, Gentian Jakllari, Srikanth Krishnamurthy, University of California, Riverside*
- MA6b-4 Distributed link scheduling, power control and routing for multi-hop wireless MIMO networks 11:30 AM  
*Yih-Hao Lin, Rene Cruz, Larry Milstein, Tara Javidi, University of California, San Diego*
- MA6b-5 Improving Channel Access Scheduling with Opportunistic Cooperation Among MIMO Nodes 11:55 AM  
*J. J. Garcia-Luna-Aceves, Hamid Sadjadpour, X. Wang, University of California, Santa Cruz*



## Session MA7b Adaptive Systems for Communications

Chair: *Stephan Weiss*

- MA7b-1 Low Complexity Equalizers for HSDPA UMTS Mode 10:15 AM  
*Christian Mehlhuehrer, Markus Rupp, Technical University of Vienna*
- MA7b-2 A Scheme for Fast Joint Estimation of Data Symbols and Doubly Dispersive Channel Coefficients 10:40 AM  
*Philip Schmitter, Sungjun Hwang, The Ohio State University*
- MA7b-3 Interference Suppression in Turbo-MIMO Systems 11:05 AM  
*Edward S Warner, Ian K Proudler, Malcolm D. Macleod, Qinetiq Ltd*
- MA7b-4 Affine Projection Algorithm Based Direct Adaptations for Adaptive Nonlinear Predistorters 11:30 AM  
*Dayong Zhou, Victor DeBrunner, University of Oklahoma*
- MA7b-5 Adaptive Receivers for Space-Time Spreading over Dispersive Channels 11:55 AM  
*Samir Bendoukha, University of Strathclyde; Mahmoud Hadeef, Queen Mary, University of London; Stephan Weiss, University of Strathclyde*

## Session MP1a Functional Imaging

Chair: *Dana Brooks*

- MP1a-1 Array Response Kernel for EEG in Four-Shell Ellipsoidal Geometry 1:30 PM  
*David Gutierrez, CINVESTAV; Arye Nehorai, Washington University in St. Louis*
- MP1a-2 Fast and Efficient Stored Matrix Techniques for Optical Tomography 1:55 PM  
*Guangzhi Cao, Charles A. Bouman, Kevin J. Webb, Purdue University*
- MP1a-3 Kernel methods for analysis of functional neuroimages 2:20 PM  
*Ana Lukic, Miles Wernick, Illinois Institute of Technology; Nikolas Galatsanos, University of Ioannina; Yongyi Yang, Illinois Institute of Technology; Stephen Strother, The Roman Institute and University of Toronto*
- MP1a-4 Controlling Dimensionality in a Systems Approach to Dynamic Multimodal Functional Brain Imaging 2:45 PM  
*Srinivas Laxminarayan, Northeastern University; Solomon Diamond, Massachusetts General Hospital; Gilead Tadmor, Eric Miller, Northeastern University; David Boas, Massachusetts General Hospital; Dana H. Brooks, Northeastern University*

## Session MP1b Advanced Optical Techniques for Biology

Chair: *Brian Helmke*

- MP1b-1 "RoboLase": A robotic laser scissors and tweezers microscope 3:30 PM  
*Michael Berns, University of California, Irvine; Linda Shi, Jaclyn Nascimento, University of California, San Diego; Nicole Wakida, Alexander Dvornikov, University of California, Irvine; Norman Baker, University of California, San Diego; Elliot Botvinick, University of California, Irvine*
- MP1b-2 Tracking actin-based movements with light 3:55 PM  
*Daniel Fletcher, University of California, Berkeley*
- MP1b-3 Whole-cell flagellum-based motility studied using back focal plane interferometry in a laser trap transducer 4:20 PM  
*William Guilford, Laura Aust, University of Virginia; Karen Bernd, Davidson College*
- MP1b-4 Spatiotemporal Analysis of Actin Ruffling Dynamics in Living Cells 4:45 PM  
*Lawrence Huang, Brian P. Helmke, University of Virginia*

## Session MP2 Multi-user Information Theory

Chair: *Sriram Vishwanath*

- MP2-1 Scalable Feedback Protocol Asymptotically Achieving Broadcast Channel Sum-capacity 1:30 PM  
*Chan-Soo Hwang, John M. Cioffi, Stanford University*
- MP2-2 Energy Allocation, Relay Selection and Ordering in Orthogonal Relay Networks 1:55 PM  
*Jesús Gómez-Vilardebó, CTTC; Ana I. Perez-Neira, Universitat Politècnica de Catalunya*
- MP2-3 On the Sum-Rate of Broadcast Channels with Outdated 1-Bit Feedback 2:20 PM  
*Bo Niu, Osvaldo Simeone, Oren Somekh, Alexander Haimovich, New Jersey Institute of Technology*
- MP2-4 Spectrum-Sensing Opportunistic Wireless Relay Networks: Outage and Diversity Performance 2:45 PM  
*Kyoungwan Lee, Aylin Yener, Pennsylvania State University*
- BREAK 3:10 PM
- MP2-5 On the distortion exponent of some layered transmission schemes 3:30 PM  
*Kapil Bhattad, Krishna Narayanan, Texas A&M University; Giuseppe Caire, University of Southern California*
- MP2-6 New results on source and channel coding error exponents with respect to end-to-end delay 3:55 PM  
*Anant Sahai, University of California, Berkeley*
- MP2-7 On Noisy Feedback in Networks 4:20 PM  
*Michael Gastpar, University of California, Berkeley*

MP2-8 Non-collaborative cognitive co-existence in wireless networks 4:45 PM  
*Syed Jafar, University of California, Irvine*

### Session MP3 Adaptive Filters

Chair: *Milos Doroslovacki*

MP3-1 Convergence analysis of the LMS algorithm under slowly varying conditions using the Langevin equation 1:30 PM  
*Simon Haykin, McMaster University*

MP3-2 Distributed recursive least-squares strategies over adaptive networks 1:55 PM  
*Ali H. Sayed, Cassio G. Lopes, University of California, Los Angeles*

MP3-3 Convergence and performance issues for autocorrelation based adaptive channel shortening 2:20 PM  
*John MacLaren Walsh, Cornell University; Richard K. Martin, Air Force Institute of Technology; C. Richard Johnson, Jr., Cornell University*

MP3-4 Convergence of proportionate-type LMS adaptive filters and choice of gain matrix 2:45 PM  
*Milos Doroslovacki, George Washington University; Hongyang Deng, Acoustic Technologies Inc.; Kevin Wagner, Naval Research Laboratory*  
BREAK 3:10 PM

MP3-5 Mean-Square Performance Analysis of the Normalized Subband Adaptive Filter 3:30 PM  
*Kong-Aik Lee, Institute for Infocomm Research; Woon-Seng Gan, Nanyang Technological University; Sen-Maw Kuo, Northern Illinois University*

MP3-6 Steady-State Performance Comparison of Bayesian and Standard Adaptive Filtering 3:55 PM  
*Tayeb Sadiki, Dirk T. M. Slock, Institut Eurecom*

MP3-7 An Interval-based Algorithm for Adaptive IIR Filters 4:20 PM  
*Senanu Ocloo, William Edmonson, North Carolina State University*

MP3-8 Optimization in the complex domain and the widely-linear LMS adaptive filters 4:45 PM  
*Tulay Adali, Hualiang Li, Nicolle Correa, Haleh Safavi, University of Maryland, Baltimore County*

### Session MP4 Sensor Networks

Chair: *Venu Veeravalli*

MP4-1 Cross-Layer Optimization and Information Assurance in Decentralized Detection over Wireless Sensor Networks 1:30 PM  
*Lingjia Liu, Jean-Francois Chamberland, Texas A&M University*

MP4-2 Topology for Global Average Consensus 1:55 PM  
*Soumya Kar, Jose M.F. Moura, Carnegie Mellon University*

MP4-3 Distributed Inference in the Presence of Byzantine Sensors 2:20 PM  
*Stefano Marano, Vincenzo Matta, University of Salerno; Lang Tong, Cornell University*

MP4-4 Smart sleeping strategies for localization and tracking in sensor networks 2:45 PM  
*Jason Fuemmeler, Venugopal Veeravalli, University of Illinois at Urbana-Champaign*

BREAK 3:10 PM

MP4-5 Channel Aware Particle Filtering for Tracking in Sensor Networks 3:30 PM  
*Onur Ozdemir, Ruixin Niu, Pramod Varshney, Syracuse University*

MP4-6 Fundamental bounds to Distributed Detection with Limited Sensing Range 3:55 PM  
*Venkatesh Saligrama, Shuchin Aeron, Erhan Ermis, Boston University*

MP4-7 Multicluster ALLIANCES: A High Throughput and Energy Efficient Approach for Wireless Sensor Networks 4:20 PM  
*A. Elanchezian, H. Yang, J. C. de Oliveira, Athina P. Petropulu, Drexel University*

MP4-8 Multi-Channel Smart Antennas in Wireless Ad Hoc Networks 4:45 PM  
*Yimin Zhang, Moeness Amin, Villanova University*

### Session MP5 Computer Arithmetic

Chair: *Earl E. Swartzlander, Jr.*

MP5-1 A Radix-10 Combinational Multiplier 1:30 PM  
*Tomas Lang, University of California, Irvine; Alberto Nannarelli, Danish Technical University*

MP5-2 On the Design of an On-line Complex Householder Transform 1:55 PM  
*Robert McIlhenny, California State University, Northridge; Milos Ercegovac, University of California, Los Angeles*

MP5-3 Adaptive CORDIC Algorithm 2:20 PM  
*Terence Rodrigues, Earl Swartzlander, University of Texas at Austin*

MP5-4 Generating function approximations at compile time 2:45 PM  
*Jean-Michel Muller, CNRS/LIP*  
BREAK 3:10 PM

MP5-5 16-bit Binary Multiplication Using High Radix Analog Digits 3:30 PM  
*Mitra Mirhassani, Majid Ahmadi, University of Windsor; Graham Jullien, University of Calgary*

MP5-6 Arithmetic Processor for Solving Tri-Diagonal Systems of Linear Equations 3:55 PM  
*Milos Ercegovac, University of California, Los Angeles; Jean-Michel Muller, ENS Lyon*

- MP5-7 Improving Floating-Point Performance by Not Fusing Multiply-Add 4:20 PM  
*David Lutz, Chris Hinds, ARM*
- MP5-8 Arithmetic Units for Software Defined Radio 4:45 PM  
*Michael Schulte, Suman Mamidi, Christopher Jenkins, Emily Blem, University of Wisconsin-Madison; John Glossner, Sandbridge Technologies*

## Session MP6 Multi-user MIMO Methods

Chair: Xiaodong Wang

- MP6-1 Coverage Spectral Efficiency of Cellular Systems with Cooperative Base Stations 1:30 PM  
*Yifan Liang, Taesang Yoo, Andrea Goldsmith, Stanford University*
- MP6-2 Achievable rates of MIMO downlink beamforming with non-perfect CSI: a comparison between “quantized” and “analog” feedback 1:55 PM  
*Nihar Jindal, University of Minnesota; Mari Kobayashi, Centro Tecnológico Telecomunicaciones Cataluña; Giuseppe Caire, University of Southern California*
- MP6-3 How Much Training is Required for Multiuser MIMO? 2:20 PM  
*Thomas Marzetta, Bell Laboratories, Lucent Technologies*
- MP6-4 Multiuser Diversity - Multiplexing Tradeoff in MIMO Broadcast Channels with Limited Feedback 2:45 PM  
*Marios Kountouris, France Telecom R&D; Ruben de Francisco, David Gesbert, Dirk T. M. Slock, Institut Eurecom; Thomas Salzer, France Telecom R&D*
- BREAK 3:10 PM
- MP6-5 Calculus for MIMO Multiuser Performance Measures 3:30 PM  
*Holger Boche, Eduard Jorsweick, Aydin Sezgin, Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut*
- MP6-6 MSE Based Optimization of Multiuser MIMO MAC with Partial CSI 3:55 PM  
*Xi Zhang, Eduard Jorswieck, Björn Ottersten, Royal Institute of Technology (KTH); Arogyaswami Paulraj, Stanford University*
- MP6-7 Some Results on the Asymptotic Downlink Capacity of MIMO Multi-user Networks 4:20 PM  
*Raul de Lacerda, Mérouane Debbah, Institut Eurecom*
- MP6-8 Jointly Optimized MIMO Multiuser Precoding System with Channel Mismatch 4:45 PM  
*Kyeong Jin Kim, Nokia Inc.; Charlie Zhang, Motorola Inc.*

## Session MP7 Image and Video Processing

Chair: Trac Tran

- MP7-1 Optimal Tilings for Image and Video Compression 1:30 PM  
*Kai-Lung Hua, Ilya Pollak, Mary Comer, Purdue University*

- MP7-2 Prediction of High Resolution Data from a Coded Low Resolution Grid within the Context of SRC 1:55 PM  
*Andrew Segall, Sharp Laboratories of America*
- MP7-3 Three-Dimensional Subband Coding of Video with 3-D BCWT 2:20 PM  
*Linning Ye, Jiangling Guo, Tanja Karp, Brian Nutter, Sunanda Mitra, Texas Tech University*
- MP7-4 Multidimensional Nonsampled Hourglass Filter Banks: Geometry of Passband Support and Filter Design 2:45 PM  
*Yue Lu, Minh N. Do, University of Illinois at Urbana-Champaign*
- BREAK 3:10 PM
- MP7-5 On Local Computation of Wavelet Coefficients in the Dual-Tree Complex Wavelet Transform 3:30 PM  
*Iman El-Shehaby, Trac D. Tran, The Johns Hopkins University*
- MP7-6 Registration of Surfaces to 3D Images Using Rigid Body Surfaces 3:55 PM  
*Bing Li, University of Virginia; Steven Millington, Medical University of Vienna; Donald Anderson, University of Iowa; Scott T. Acton, University of Virginia*
- MP7-7 3D Motion Estimation from Three Orthographic Views without Matching Constraints or Brightness Gradients 4:20 PM  
*Stefan Lehmann, Andrew Bradley, University of Queensland*
- MP7-8 A Subspace Method for Fourier Based Image Registration 4:45 PM  
*Min Xu, Pramod Varshney, Syracuse University*

## Session MP8a1 Performance Analysis for Communications

- MP8a1-1 Simulation and Analysis of 2.4 GHz Propagation in a Medium-Size Conference Room  
*Dennis R. Morgan, Jonathan Ling, Bell Laboratories, Lucent Technologies*
- MP8a1-2 Vandermonde-form Preserving Matrices And The Generalized Signal Richness Preservation Problem  
*Borching Su, P. P. Vaidyanathan, California Institute of Technology*
- MP8a1-3 Low Complexity Simulation Algorithm for TH-UWB MMSE RAKE Receiver  
*Marina Marjanovic, Polytechnical University of Madrid*
- MP8a1-4 On the Duality of Layered Transmission for Fading and Packet Erasure Channels  
*Farzad Etemadi, Hamid Jafarkhani, University of California, Irvine*

- MP8a1-5 An Achievable Rate Region for Interference Channels with Common Information  
*Jinhua Jiang, Yan Xin, Garg Hari Krishna, National University of Singapore*
- MP8a1-6 Random Projections for Sparse Channel Estimation and Equalization  
*Benjamin Friedlander, University of California, Santa Cruz*
- MP8a1-7 Fast Convergence with Q-expectation in EM-based Blind Iterative Detection  
*Wenbin Guo, Shuguang Cui, University of Arizona*
- MP8a1-8 A Comparison of Indoor and Outdoor Spatial Correlation Measurements at 2.4 GHz  
*Leslie Wood, William Hodgkiss, University of California, San Diego*
- MP8a1-9 On the Dual Decomposition Based Sum Capacity Maximization for Vector Broadcast Channel  
*Marian Codreanu, Markku Juntti, Matti Latva-aho, University of Oulu*
- MP8a1-10 Ergodicity of Wireless Channels and Temporal Prediction  
*Yogananda Isukapalli, Bhaskar Rao, University of California, San Diego*
- MP8a1-11 Strict Convexity of the QoS Feasible Region for Log-Convex Interference Functions  
*Martin Schubert, Holger Boche, Slawomir Stanczak, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut*
- MP8a1-12 Design of Multi-Carrier Modulation for Doubly Selective Channels Based on a Complexity-Constrained Achievable Rate Metric  
*Sibasish Das, Philip Schniter, The Ohio State University*
- MP8a1-13 Shift Orthogonal Phase Modulation Tutorial  
*Douglas Hermes, Frank Kragh, Naval Postgraduate School*
- MP8a1-14 Performance Characterization of Random Proximity Sensor Networks  
*Agostino Capponi, California Institute of Technology; Lance Kaplan, U.S. Army Research Laboratory; Concetta Pilotto, California Institute of Technology*
- MP8a1-15 Fading Broadcast Channels with One-Sided Feedback  
*Rajiv Agarwal, John M. Cioffi, Stanford University*
- MP8a1-16 Performance of Pre- and Post Equalization for FSK Signals in the Presence of Multipath Environments  
*Shu-Ting Lee, Sally Wood, Santa Clara University; Michael Ready, John Treichler, Applied Signal Technology, Inc*

## Session MP8a2 Statistical Signal Processing and Applications I

Chair: *Rabi Madan*

- MP8a2-1 Chirplet Signal Decomposition for Echo Detection and Estimation  
*Logan Sorenson, Yufeng Lu, Fernando Martinez Vallina, Jafar Saniie, Illinois Institute of Technology*
- MP8a2-2 Enhanced Simultaneous Camera Calibration and Path Estimation  
*Melanie Rudoy, Charles Rohrs, Massachusetts Institute of Technology*
- MP8a2-3 Multi-Pitch Estimation using Harmonic MUSIC  
*Mads Græsbøll Christensen, Aalborg University; Andreas Jakobsson, Karlstad University; Søren Holdt Jensen, Aalborg University*
- MP8a2-4 Joint Detection and Localization in Sensor Networks Based on Local Decisions  
*Ruixin Niu, Pramod Varshney, Syracuse University*
- MP8a2-5 Consensus-Based Distributed Estimation of Random Signals with Wireless Sensor Networks  
*Ioannis Schizas, Georgios B. Giannakis, University of Minnesota*
- MP8a2-6 A Novel Dynamic Filter Switching Algorithm to Track People using Acoustic Sensors  
*Himanshu Shah, Darryl Morrell, Arizona State University*
- MP8a2-7 An Algorithm for Estimating Bridge Deflection from Accelerometer Measurements  
*Richard Vaccaro, Mayrai Gindy, University of Rhode Island; Hani Nassif, Rutgers, The State University of New Jersey; Jana Velde, University of Rhode Island*
- MP8a2-8 Chirp classification using hidden Markov models  
*Charles Creusere, Nikil Balachandran, New Mexico State University*
- MP8a2-9 New Non-Stationary Target Feature Identification and Detection Techniques  
*Lawrence Marple, Oregon State University; Muralidhar Rangaswamy, Air Force Research Laboratory*
- MP8a2-10 Passive Acoustic Detection of Divers Using Single Hydrophone  
*Xiaoling Chen, Tureli Uf, Stevens Institute of Technology*
- MP8a2-11 Signal Processing for Optical Power Spectrum Monitoring  
*Chia-Yin Che, Centre for Ultra-Broadband Information Networks; Robin J. Evans, National ICT Australia (NICTA)*
- MP8a2-12 Performance Capabilities of UWB Localization and Tracking Systems  
*Divya Rao, Richard Barton, University of Houston*
- MP8a2-13 Instantaneous Frequency Estimation Using Sequential Bayesian Techniques  
*Ying Li, Antonia Papandreou-Suppappola, Darryl Morrell, Arizona State University*

- MP8a2-14 Wavelet Based Structure Damage Detection  
*Alessio Medda, Victor DeBrunner, Kyran Mish, University of Oklahoma*
- MP8a2-15 Fast Iterative Maximum-Likelihood Algorithm (FIMLA) for Multipath Mitigation in GPS Receivers  
*Mohamed Sahmoudi, Moeness Amin, Villanova University*
- MP8a2-16 A Geometric Approach to Multi-Stage Detection  
*Ananya Sen Gupta Sen Gupta, Andrew Singer, University of Illinois at Urbana-Champaign*

## Session MP8b1 Biometrics and Security in Image Processing

Chair: *Robert Ives*

- MP8b1-1 Face Recognition Using Gabor Wavelets  
*Vinay Kumar, Global Academy of Technology; Shreyas B S, B.M.S College of Engineering*
- MP8b1-2 Adaptive fingerprint binarization by frequency domain analysis  
*Josef Strom Bartunek, Mikael Nilsson, Jorgen Nordberg, Ingvar Claesson, Blekinge Institute of Technology*
- MP8b1-3 Non-Orthogonal Iris Recognition Using a One-Dimensional Approach  
*Ruth Gaunt, Robert W. Ives, Delores Etter, U.S. Naval Academy*
- MP8b1-4 Image Preprocessing for Non-Orthogonal Iris Recognition  
*Lauren R. Kennell, Robert W. Ives, Randy P. Broussard, U.S. Naval Academy*
- MP8b1-5 Colluder Detection for Nonlinear Collusion Attacks  
*Yingwei Yao, University of Illinois at Chicago*
- MP8b1-6 Biometrics for Human Face Reconstruction in 3D  
*Frédérique Robert-Inacio, L2MP-ISEN Toulon; Frédéric Caudal, Cédric Rousset, ISEN Toulon*
- MP8b1-7 Uncooled Infrared Imaging Face Recognition using Kernel-based Feature Vector Selection  
*Ioannis Alexandropoulos, Monique Fargues, Naval Postgraduate School*

## Session MP8b2 Wireless Networks

- MP8b2-1 Time-Delay Set-Selection  
*William Clarkson, Dale Joachim, Tulane University*
- MP8b2-2 Digital Notch Filters - A Number Theoretic Approach  
*Siwoo Noh, Fred Taylor, University of Florida*
- MP8b2-3 Low-SNR analysis of cellular systems with cooperative base stations and mobiles  
*Oswaldo Simeone, Oren Somekh, Yeheskel Bar-Ness, New Jersey Institute of Technology; Umberto Spagnolini, Politecnico di Milano*
- MP8b2-4 Spectrally Efficient Cooperative Diversity Protocols for Wireless Networks  
*Tharm Ratnarajah, Mathini Sellathurai, Queen's University Belfast*

- MP8b2-5 Outage-Optimal Transmission Strategies for Rayleigh Fading Relay Channels  
*Yonglan Zhu, Yan Xin, Pooi-Yuen Kam, National University of Singapore*
- MP8b2-6 Low Complexity Multiuser MIMO Scheduling with Channel Decomposition  
*Xiaojie Zhang, Samsung Electronics; Jungwoo Lee, Seoul National University*
- MP8b2-7 Upper Bounds on the Ergodic and Outage Capacities of Relay Networks Using UWB Links  
*Zolfa Zeinalpour-Yazdi, Telecommunications Research Center Vienna (ftw.); Masoumeh Nasiri-Kenari, Sharif University of Technology; Joachim Wehinger, Christoph Mecklenbräuker, Telecommunications Research Center Vienna (ftw.)*
- MP8b2-8 On Interface Rate Allocation for a Fiber Aided Wireless Network Architecture  
*Siddharth Ray, Muriel Medard, Lizhong Zheng, Massachusetts Institute of Technology*
- MP8b2-9 OFDM2A: A Centralized Resource Allocation Policy for Multi-hop Cellular Backhaul  
*Ozgur Oyman, Intel Corporation*
- MP8b2-10 Cooperative Transmission Protocol With Full Diversity and Low Complexity Iterative Detection  
*Sajid Ahmed, Zhiguo Ding, Tharm Ratnarajah, Colin Cowan, Queen's University Belfast*
- MP8b2-11 Outage Capacity of Two-Phase Space-Time Coded Cooperative Multicasting  
*Aitor del Coso, CTTC; Oswaldo Simeone, Yeheskel Bar-Ness, New Jersey Institute of Technology; Christian Ibars, CTTC*
- MP8b2-12 Distributed MIMO for Cellular Networks with Multihop Transmission Protocols  
*Ingmar Hammerström, Marc Kuhn, Armin Wittneben, ETH-Zurich*
- MP8b2-13 Rate-Diversity Trade-offs in Interference Channels with and without Cooperation  
*Chaitanya Rao, Babak Hassibi, California Institute of Technology*
- MP8b2-14 Two-way Communication for IEEE 802.11n WLANs using Decode and Forward Relays  
*Marc Kuhn, Azadeh Etefagh, Ingmar Hammerström, Armin Wittneben, ETH-Zurich*
- MP8b2-15 Low Complexity Adaptive Modulation for 802.11n Beamforming Systems  
*Pengfei Xia, Huaning Niu, Chiu Ngo, Samsung Electronics*
- MP8b2-16 Lifetime Maximization for Joint Estimation in Wireless Sensor Networks  
*Bing Hwa Cheng, University of California, Los Angeles; Aria Nosratinia, University of Texas at Dallas; Kung Yao, University of California, Los Angeles*

MP8b2-17	Joint Design and Separation Principle for Opportunistic Spectrum Access <i>Yunxia Chen, Qing Zhao, University of California, Davis; Ananthram Swami, Army Research Laboratory</i>			BREAK	10:10 AM
MP8b2-18	Initial Synchronization for 802.16e Downlink <i>Tejas Bhatt, Vishwas Sundaramurthy, Nokia Inc.; Jianzhong (Charlie) Zhang, Motorola Inc.; Dennis McCain, Nokia Inc.</i>	TA1-5	Polarization Diversity for Radar Detection <i>Robert Calderbank, Princeton University; Stephen Howard, Defense Science and Technology Organization; William Moran, University of Melbourne; Ali Pezeshki, Princeton University; Michael Zoltowski, Purdue University</i>		10:30 AM
MP8b2-19	An Achievable Rate Region for a Multiuser Half Duplex Two-Way Channel <i>Debashis Dash, Ahmad Khoshnevis, Ashutosh Sabharwal, Rice University</i>	TA1-6	Spatial Transmit Processing using Long-Term Channel Statistics and Pilot Signaling on Selected Antennas <i>David Hammarwall, Björn Ottersten, Royal Institute of Technology (KTH)</i>		10:55 AM
MP8b2-20	Interference-Aware Scheduling and Routing in Unstructured Wireless Networks <i>Joseph Thomas, University of Maryland</i>	TA1-7	Superimposed vs. Conventional Pilots for Channel Estimation <i>Aditya Jagannatham, Bhaskar Rao, University of California, San Diego</i>		11:20 AM
MP8b2-21	Synchronization and Performance of a Cooperative Pulse Transmission Algorithm for a Wireless Network of Active Sensors <i>T. Owens Walker III, Murali Tummala, J. Bret Michael, Naval Postgraduate School</i>	TA1-8	Asymptotic Noise Analysis of Time Reversal Detection <i>Yuanwei Jin, Jose M.F. Moura, Carnegie Mellon University</i>		11:45 AM
MP8b2-22	A Systematic Construction of LDPC Codes for Relay Channel in Time-Division mode <i>Alexandre de Baynast, Arnab Chakrabarti, Ashutosh Sabharwal, Behnaam Aazhang, Rice University</i>	<b>Session TA2 MIMO Scheduling</b>			
MP8b2-23	A New Bound on the Outage Probability of Orthogonal Space-time Coded Systems with Antenna Selection <i>Shahab Sanayei, ArrayComm LLC</i>	Chair: <i>Elif Uysal-Biyikoglu</i>			
MP8b2-24	Resolving Wireless Collisions in Random Access Networks <i>Frank Prihoda, Athina P. Petropulu, Drexel University</i>	TA2-1	Dirty Paper Coding vs. Linear Precoding for MIMO Broadcast Channels <i>Juyul Lee, Nihar Jindal, University of Minnesota</i>		8:30 AM
<b>Session TA1 Active Sensing and Waveform Diversity</b>		TA2-2	Quantizer Design for Feedback in MIMO Broadcasting Systems <i>Charles Swannack, Massachusetts Institute of Technology; Elif Uysal-Biyikoglu, The Ohio State University; Gregory Wornell, Massachusetts Institute of Technology</i>		8:55 AM
Chair: <i>Antonia P.-S</i>		TA2-3	On User Selection for Multiple Antenna Wireless Networks with Contention-Based Feedback and Delay Constraints <i>Seung Young Park, David Love, Purdue University; Daeyoung Park, Samsung Electronics</i>		9:20 AM
TA1-1	Adaptive Waveform Design for a Multi-Antenna Radar System <i>Benjamin Friedlander, University of California, Santa Cruz</i>	8:30 AM	TA2-4	Opportunistic Feedback for the MIMO Downlink with Linear Receivers <i>Taiwen Tang, Robert W. Heath Jr., University of Texas at Austin; Sunghyun Cho, Samsung Advanced Institute of Technology</i>	9:45 AM
TA1-2	Virtual Array Processing for Active Sensing <i>Louis Scharf, Colorado State University; Ali Pezeshki, Princeton University</i>	8:55 AM		BREAK	10:10 AM
TA1-3	Sequential Detection of a Target in Compound-Gaussian Clutter <i>Jiang Wang, Arye Nehorai, Washington University in St. Louis</i>	9:20 AM	TA2-5	Differentiated rate scheduling for MIMO broadcast channels with estimation errors <i>Babak Hassibi, Ali Vakili, Amir F. Dana, California Institute of Technology</i>	10:30 AM
TA1-4	A Subspace-Based Approach to Sea Clutter Suppression For Improved Target Detection <i>Sandeep Sira, Douglas Cochran, Antonia Papandreou-Suppappola, Darryl Morrell, Arizona State University; William Moran, University of Melbourne; Stephen Howard, Defense Science and Technology Organization</i>	9:45 AM	TA2-6	A Beamforming and Combining Strategy for MIMO-OFDM over Doubly Selective Channels <i>Sibasish Das, Philip Schniter, The Ohio State University</i>	10:55 AM

TA2-7 Spatial and Temporal Power Allocation for MISO Systems with Delayed Feedback 11:20 AM  
*Venkata Sreekanta Reddy Annapureddy, Srikrishna Bhashyam, Indian Institute of Technology Madras*

TA2-8 An Efficient MAC Protocol for MIMO-OFDM Ad hoc Networks 11:45 AM  
*Duong Hoang, Ronald A. Iltis, University of California, Santa Barbara*

### Session TA3 Computer-aided Diagnosis

Chair: *Mia K. Markey*

TA3-1 Computer Aided Diagnosis in Mammography: Its Development and Early Challenges 8:30 AM  
*Brian Dolan, University of California, San Francisco*

TA3-2 Registration of DCE MR Images for Computer-aided Diagnosis of Breast Cancer 8:55 AM  
*Qiu Wu, University of Texas at Austin; Gary Whitman, University of Texas M. D. Anderson Cancer Center; Donald Fussell, Mia Markey, University of Texas at Austin*

TA3-3 Adaptive and Robust Techniques (ART) for Thermoacoustic Tomography in Breast Cancer Detection 9:20 AM  
*Yao Xie, Bin Guo, Jian Li, University of Florida; Geng Ku, Lihong Wang, Texas A&M University*

TA3-4 Atherosclerotic Plaque Motion Analysis from Ultrasound Videos 9:45 AM  
*Sergio E. Murillo, Marios S. Pattichis, University of New Mexico; Christos Loizou, Intercollege Limassol Campus; Constantinos S. Pattichis, University of Cyprus; Efthymoulos Kyriacou, Cyprus Institute of Neurology and Genetics; Anthony G. Constantinides, Andrew Nicolaidis, Imperial College*

BREAK 10:10 AM

TA3-5 Tumor Classification in Histological Images of Prostate Using Color Texture 10:30 AM  
*Ali Tabesh, Mikhail Teverovskiy, Aureon Laboratories, Inc.*

TA3-6 Gene Expression Based CNS Tumor Prototype for Automatic Tumor Detection 10:55 AM  
*Atiqul Islam, Khan Iftekharuddin, E. Olusegun George, University of Memphis*

TA3-7 Estimating Respiratory Parameters using Intra-Arterial Partial Pressure Measurements 11:20 AM  
*Aleksandar Jeremic, Kenneth Tan, McMaster University*

TA3-8 Particle Filter Tracking of Multiple Rolling Leukocytes in Vivo 11:45 AM  
*Jing Cui, Scott T. Acton, Zongli Lin, University of Virginia*

### Session TA4 Applications of Multirate DSP

Chair: *Chuck Creusere*

TA4-1 Double Density Complex Wavelet Based Image Cartoon-Texture Decomposition 8:30 AM  
*Gary hewer, Wei Kuo, Grant Hanson, Frederick Sickman, NAVAIR*

TA4-2 Analysis of multi-rate filters and signal design for projected image superimposition 8:55 AM  
*Amir Said, Hewlett Packard*

TA4-3 Analyzing Reversible Lapped Transformations using RENG Probing 9:20 AM  
*Charles Creusere, V. Mahitha Prasad, New Mexico State University*

TA4-4 Symmetry-preserving Lattice Vector Quantization for Reversible Half Sample Symmetric FIR Filter Bands 9:45 AM  
*Christopher M. Brislawn, Brendt Wohlberg, Los Alamos National Laboratory*

BREAK 10:10 AM

TA4-5 Video Processing Using the 3-Dimensional Surfacelet Transform 10:30 AM  
*Yue Lu, Minh N. Do, University of Illinois at Urbana-Champaign*

TA4-6 A Precoding and Equalisation Design Based on Oversampled Filter Banks for Dispersive Channels with Correlated Noise} 10:55 AM  
*Chunguang Liu, Chi Hieu Ta, Stephan Weiss, University of Strathclyde*

TA4-7 Efficient Implementation of FIR Filter Based Rational Sampling Rate Converters Using Constant Matrix Multiplication 11:20 AM  
*Oscar Gustafsson, Hakan Johansson, Linkoping University*

TA4-8 An Iterative Weighted Norm Algorithm for Total Variation Regularization 11:45 AM  
*Paul Rodriguez, Brendt Wohlberg, Los Alamos National Laboratory*

### Session TA5 VLSI Digital Signal Processing

Chair: *W. Kenneth Jenkins*

TA5-1 Arithmetic for VLSI Signal Processing 8:30 AM  
*Earl Swartzlander, University of Texas at Austin*

TA5-2 VLSI Architectures for JPEG 2000 EBCOT: Design Techniques and Challenges 8:55 AM  
*Yijun Li, Magdy Bayoumi, University of Louisiana at Lafayette*

TA5-3 An architectural comparison of Reed-Solomon soft-decoding algorithms 9:20 AM  
*Arshad Ahmed, Naresh Shanbhag, Ralf Koetter, University of Illinois at Urbana-Champaign*

TA5-4	An Exploration of Hardware Architectures for Face Detection <i>Kevin Irick, Pennsylvania State University; Theocharis Theocharides, University of Cyprus; Vijaykrishnan Narayanan, Mary Jane Irwin, Pennsylvania State University</i>	9:45 AM
	BREAK	10:10 AM
TA5-5	High Performance VLSI Signal Processing Using Multiple Base Representations <i>Graham Jullien, Vassil Dimitrov, University of Calgary; Roberto Muscedere, University of Windsor</i>	10:30 AM
TA5-6	Fault Tolerance in Adaptive VLSI Signal Processors Subject to Fixed and Transient Hardware Errors <i>Kenneth Jenkins, Siddharth Pal, Jagdish Sabarad, Pennsylvania State University</i>	10:55 AM
TA5-7	Truncated Multiplication with Symmetric Correction <i>Hyuk Park, Earl Swartzlander, University of Texas at Austin</i>	11:20 AM
TA5-8	Fixed-Width Multi-Level Recursive Multipliers <i>Kevin Biswas, Huapeng Wu, Majid Ahmadi, University of Windsor</i>	11:45 AM

### Session TA6 MIMO Channel Modeling

Chair: *Visa Koivunen*

TA6-1	State-Space Modeling and Propagation Parameter Tracking: Multitarget tracking based approach <i>Jussi Salmi, Andreas Richter, Visa Koivunen, Helsinki University of Technology</i>	8:30 AM
TA6-2	On Doubly-Dispersive MIMO Channels <i>Gerald Matz, Technische Universitaet Wien</i>	8:55 AM
TA6-3	The Contribution of Distributed Diffuse Scattering in Radio Channels to Channel Capacity: Estimation and Modelling <i>Andreas Richter, Helsinki University of Technology</i>	9:20 AM
TA6-4	Detecting Specular Propagation Paths in the Presence of Distributed Scattering in Angle and Delay Domains <i>Cássio Ribeiro, Nokia Institute of Technology; Andreas Richter, Visa Koivunen, Helsinki University of Technology</i>	9:45 AM
	BREAK	10:10 AM
TA6-5	Evaluation of propagation parameter estimation results based on realistic channels <i>Markus Landmann, Reiner S. Thoma, Ilmenau University of Technology</i>	10:30 AM

TA6-6	MIMO Cross Polarisation Channel Characterisation and Performance of Turbo MIMO Concepts in Measured Indoor and Outdoor Environments <i>Christian Schneider, Markus Landmann, Reiner S. Thoma, Ilmenau University of Technology</i>	10:55 AM
TA6-7	A Novel Wideband MIMO Channel Model and McMaster's Wideband MIMO Software Defined Radio <i>Nelson Costa, Simon Haykin, McMaster University</i>	11:20 AM
TA6-8	Higher Order SVD based Subspace Estimation to Improve Multi-Dimensional Parameter Estimation Algorithms <i>Florian Roemer, Martin Haardt, Ilmenau University of Technology</i>	11:45 AM

### Session TA7 Models for Image and Video Processing

Chair: *Ilya Pollak*

TA7-1	Quality-aware video streaming in wireless mesh networks with optima dynamic routing and time allocation <i>H-P Shiang, D. Krishnaswamy, M. van der Schaar, University of California, Los Angeles</i>	8:30 AM
TA7-2	Optimally sparse image representations using shearlets. <i>Demetrio Labate, North Carolina State University; Wang-Q Lim, Washington University; Glenn Easley, System Planning Corporation</i>	8:55 AM
TA7-3	Video Modeling via Spatio-Temporal Adaptive Localized Learning (STALL) <i>Yunfei Zheng, Xin Li, West Virginia University</i>	9:20 AM
TA7-4	Statistical Analysis of Shape Matching Using Distribution of Distances <i>Mireille Boutin, Mary Comer, Purdue University</i>	9:45 AM
	BREAK	10:10 AM
TA7-5	Standard-Compliant Integer DCT and IDCT Based on the Lifting Scheme <i>LIJIE LIU, Trac D. Tran, Johns Hopkins University</i>	10:30 AM
TA7-6	Nonlinear Dimensionality Reduction on 3-D Protein Image Analysis <i>Guisong Wang, Jason Kinser, George Mason University</i>	10:55 AM
TA7-7	Shoreline Detection in Images for Autonomous Boat Navigation <i>Anbumani Subramanian, Xiaojin Gong, Chris Wyatt, Virginia Polytechnic Institute and State University</i>	11:20 AM
TA7-8	New Block-Based Local-Texture-Dependent Correlation Model of Digitized Natural Video <i>Jing Hu, UC Santa Barbara; Jerry D. Gibson, University of California, Santa Barbara</i>	11:45 AM



## Session TA8a1 Adaptive Systems and Algorithms

Chair: *Dennis Morgan*

- TA8a1-1 Metrics for Target Tracking  
*Dave Szwed, University of California, San Diego; John Boyd, Cubic Defense Systems; Gary Hutchins, Naval Postgraduate School; Robert Elliott, University of Calgary*
- TA8a1-2 An Adaptive RLS MIMO Equalizer Algorithm for HSDPA  
*Dennis R. Morgan, Bell Laboratories, Lucent Technologies*
- TA8a1-3 Variable Step Size Adaptive Sub-sample Delay Estimation Using a Quadrature Phase Detector  
*Yan Shi, Southwest Jiaotong University; Adam Zielinski, University of Victoria*
- TA8a1-4 Constrained MMSE for Improved Detection  
*Benjamin Friedlander, University of California, Santa Cruz*
- TA8a1-5 New Technique for Attenuation of Narrow-Band Interference With Applications in Control and Communications Systems  
*Michael Soderstrand, City College of Moore; Louis Johnson, Oklahoma State University; Steven Phillips, SPC Consulting*
- TA8a1-6 A kernel-based RLS algorithm for nonlinear adaptive filtering using sparse approximation theory  
*Cédric Richard, University of Tech. Troyes*
- TA8a1-7 Adaptive Arrays for Broadband Communications in the Presence of Co-Channel Interference  
*Xiayu Zheng, University of Florida; Petre Stoica, Uppsala University; Jian Li, University of Florida; Renbiao Wu, Civil Aviation University of China*
- TA8a1-8 An Adaptive Cellular Network for Subspace Extraction  
*Heinz Koepl, University of California, Berkeley*
- TA8a1-9 Adaptive Carrier Tracking for Direct-to-Earth Mars Communications  
*Cassio Lopes, University of California, Los Angeles; Edgar Satorius, Jet Propulsion Laboratory - NASA; Ali H. Sayed, University of California, Los Angeles*

## Session TA8a2 Video Coding and Analysis

Chair: *Pamela Cosman*

- TA8a2-1 Achieving Diagnostic Losslessness Within a Region-Of-Interest Based on a Group-of-Pictures Rate Control Algorithm with Encoding Parameter Updates  
*Sira Rao, Nikil Jayant, Georgia Institute of Technology*
- TA8a2-2 An H.264/AVC video coder based on Multiple Description Scalar Quantizer  
*Ottavio Campana, Roberto Contiero, University of Padova*
- TA8a2-3 High-Speed Error Resilient Stereoscopic Video Coder  
*Jian-Hung Lin, Keshab K. Parhi, University of Minnesota*

- TA8a2-4 Partial-Order Bit-Allocation Schemes for Low Rate Quantization  
*Sean Ramprasad, DoCoMo USA Labs*
- TA8a2-5 Estimating the complex index of refraction and view angle of an object using multiple polarization measurements  
*Vimal Thilak, Charles Creusere, David Voelz, New Mexico State University*
- TA8a2-6 Efficient Motion Accuracy Search for Global Motion Vector Coding  
*Gokce Dane, Thomson Corporate Research; Truong Nguyen, University of California, San Diego*
- TA8a2-7 Hiddenness control of hidden Markov models and application to objective speech quality and isolated-word speech recognition  
*Gaurav Talwar, Robert Kubicek, Hongkang Liang, University of Wyoming*
- TA8a2-8 A Video Analysis for Detecting Eye Blinking using a High-Speed Camera  
*Kazuo Ohzeki, Bunhin Ryo, Shibaura Institute of Technology*
- TA8a2-9 Low Complexity Scalable Video Coding  
*Cheolhong An, Truong Nguyen, University of California, San Diego*
- TA8a2-10 An Algorithm for Intra-Frame Video Coding Based on Continuous-Valued Syndromes  
*Lorenzo Cappellari, Gian Antonio Mian, University of Padova*
- TA8a2-11 Motion Vector Field Manipulation for Complexity Reduction in Scalable Video Coding  
*Meng-Ping Kao, Truong Nguyen, University of California, San Diego*
- TA8a2-12 Source and Channel coding trade-offs for a pulsed quality video encoder  
*Vijay Chellappa, Pamela Cosman, Geoffrey Voelker, University of California, San Diego*
- TA8a2-13 Region-based fusion of IR and night vision images  
*Khin C. Chow, Monique Fargues, Alfred Cooper, Naval Postgraduate School*

## Session TA8a3 Speech and Audio Processing

Chair: *Chris Kyriakakis*

- TA8a3-1 Packet Loss Concealment for Multichannel Audio Using the Multiband Source/Filter Model  
*Kiki Karadimou, Athanasios Mouchtaris, Panagiotis Tsakalides, Foundation for Research and Technology-Hellas (FORTH)*
- TA8a3-2 Binaural Model Based Adaptive Binaural Noise Reduction  
*Chris Kyriakakis, Hesu Huang, University of Southern California*
- TA8a3-3 Multichannel matching pursuit and applications to spatial audio coding  
*Michael Goodwin, Creative Advanced Technology Center*

- TA8a3-4 Laguerre-Based Linear Prediction Using Perceptual Biasing  
*Arijit Biswas, Technische Universiteit Eindhoven; Albertus C. den Brinker, Philips Research Laboratories*
- TA8a3-5 Speech Unit Selection Based on Matching Pursuit  
*Mehdi Hosseinpour, Mohamad R. Nezami Ranjbar, Mahmoud Mousavinejad, ITRC*
- TA8a3-6 Variable Order Harmonic Sinusoidal Parameter Estimation for Speech and Audio Signals  
*Mads Græsbøll Christensen, Søren Holdt Jensen, Aalborg University*
- TA8a3-7 The Effect of DC Biasing on Nonlinear Compensation of Small Loudspeakers  
*Khosrow Lashkari, DoCoMo USA Labs*
- TA8a3-8 Room Acoustic Response Modeling and Equalization with Linear Predictive Coding and Parametric Filters for Speech and Audio Enhancement  
*Sunil Bharitkar, Audyssey Labs. / University of Southern California; Yun Zhang, Audyssey Labs.; Chris Kyriakakis, University of Southern California / Audyssey Labs.*
- TA8a3-9 Singer-Dependent Falsetto Detection for Live Vocal Processing Based on Support Vector Classification  
*Gautham Mysore, Ryan Cassidy, Julius Smith, Stanford University*
- TA8a3-10 Classification using Hermite Basis Functions  
*Christopher Lowrie, Florida Institute of Technology*

### Session TA8b1 DSP Applications and Systems

Chair: *Edgar Satorius*

- TA8b1-1 A High Throughput Beamforming Architecture for MIMO Systems  
*Melissa Duarte, Ashutosh Sabharwal, Rice University; Chris Dick, Raghu Rao, Xilinx Inc.*
- TA8b1-2 Automated Hardware IP Generation for Digital Signal Processing Applications  
*Ramsey Hourani, Youngsoo Kim, Winser Alexander, North Carolina State University*
- TA8b1-3 Performance Evaluation of Two LMMSE Detectors in a MIMO-OFDM Hardware Testbed  
*Markus Myllylä, University of Oulu; Matti Limingoja, Aaron Byman, Elektrobitt Ltd.; Joseph R. Cavallaro, Rice University; Markku Juntti, University of Oulu*
- TA8b1-4 Optimized Viterbi Decoder for Low Data Rate Systems  
*Domenico Bianchi, Gian Carlo Cardarilli, Andrea Del Re, Marco Re, University of Rome Tor Vergata*
- TA8b1-5 Implementation of Polyphase Channelizers for Multirate Signal Analysis  
*Edgar Satorius, Jet Propulsion Laboratory - NASA; Ying-Wah Wu, Brian LaRocca, U.S. Army I2WD*
- TA8b1-6 Soft Sphere Detection with Bounded Search for High-Throughput MIMO Receivers  
*Predrag Radosavljevic, Joseph R. Cavallaro, Rice University*

- TA8b1-7 Efficient Implementation of DFT over  $GF(q^m)$   
*Huapeng Wu, University of Windsor*
- TA8b1-8 The area and latency tradeoffs of binary bit-parallel BCH decoders for prospective nanoelectronics memories  
*Dmitri Strukov, Stony Brook University*
- TA8b1-9 Zero-copy Queues for Native Signal Processing Using the Virtual Memory System  
*Gregory Allen, Brian L. Evans, University of Texas at Austin*
- TA8b1-10 Decoding of Array LDPC Codes using On-The-Fly Computation  
*Kiran Gunnam, Weihuang Wang, Euncheol Kim, Gwan Choi, Texas A&M University; Mark Yearly, University of Oklahoma*
- TA8b1-11 Real-Time QRD-Based Beamforming on an FPGA Platform  
*Chris Dick, Xilinx Inc.; fred harris, Dragan Vuletic, San Diego State University; Miroslav Pajic, Signum Concepts*
- TA8b1-12 A New Side Channel Resistant Scalar Point Multiplication Method for Binary Elliptic Curves  
*Aaron Cohen, Keshab K. Parhi, University of Minnesota*

### Session TA8b2 Statistical Signal Processing and Applications II

- |         |  |          |
|---------|--|----------|
| TA8b2-1 | A Fast Generalized Likelihood Ratio Test For Single-Sinusoid Detection<br><i>Jeffrey Klein, ATK Mission Research</i>   | 10:30 AM |
| TA8b2-2 | Maximum Likelihood Estimation of Range of Polynomial Amplitude Modulated Complex Scatterers<br><i>Theagenis Abatzoglou, Raytheon Space and Airborne Systems</i>  | 10:55 AM |
| TA8b2-3 | Output-Energy Filters in Noncoherent Pulse-Event Detection<br><i>Gerald Cain, DSP Creations Limited; Anush Yardim, University of Westminster; Bobby Mughal, DSP Creations Limited</i>                        | 11:20 AM |
| TA8b2-4 | Optimal Signal Selection for FIR Matched Filtering in Pole-Only Noise<br><i>Gerald Cain, DSP Creations Limited; Anush Yardim, University of Westminster; Mehboob Mughal, DSP Creations Limited</i>           | 11:45 AM |
|         | <b>BREAK</b>   | 10:10 AM |
| TA8b2-5 | Cramer Rao Lower Bound for Blind Timing Offset Estimation of a Two-channel Time-interleaved A/D Converter<br><i>Steve Huang, Bernard Levy, University of California, Davis</i>                               | 12:10 PM |
| TA8b2-6 | Estimation of the Number of Sources Present in Instantaneous and Anechoic Mixtures<br><i>Bing Hwa Cheng, HRL Laboratories; Shubha Kadambe, Office of Naval Research; Wesley Dwelly, Vinh Adams, Raytheon</i> | 12:35 PM |

TA8b2-7 Computational Efficient Transceiver Optimization for Multiuser MIMO Systems: Power Minimization with User-MMSE Requirements  
*Shuying Shi, Martin Schubert, Holger Boche, Fraunhofer German-Sino Lab for Mobile Communications MCI* 1:00 PM

TA8b2-8 Throughput Analysis of Diversity and Multiplexing Schemes for MIMO-SIC OFDM systems  
*Aydin Sezgin, Malte Schellmann, Volker Jungnickel, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut; Elena Costa, Siemens AG* 1:25 PM

TA8b2-9 Accounting for Number of Sources Uncertainty in Blind Source Separation.  
*Hichem Snoussi, UTT; Mahieddine Ichir, Ali Mohammad-Djafari, L2S* 1:50 PM

TA8b2-10 Frequency Offset Effects on Maximin Algorithm with a Step-Length Estimation Technique  
*Hyuck Kwon, Dong-Hyeuk Yang, Wichita State University* 2:15 PM

### Session TA8b3 Space-Time Coding

TA8b3-1 Design of Distributed Randomized Space-Time Coding schemes for Cooperative Communication  
*Stefano Savazzi, Umberto Spagnolini, Politecnico di Milano*

TA8b3-2 Direct Space-Time GF(q) LDPC Modulation  
*Adam Margetts, Keith Forsythe, Daniel Bliss, Massachusetts Institute of Technology Lincoln Laboratory*

TA8b3-3 Analytical BER Analysis of Space Time Block Coded Systems over Frequency Selective Rician Fading Channels  
*Tung Lai, University of Calgary; Tuan Tran, McGill University; Abu Sesay, University of Calgary*

TA8b3-4 An Alternative Filter Bank View for Real Orthogonal STBC in Frequency Selective Channel  
*Ka Shun Carson Pun, Truong Nguyen, University of California, San Diego*

TA8b3-5 Hierarchical Diversity-Embedding Space-Time Block Coding  
*K.M. Zahidul Islam, Naofal Al-Dhahir, University of Texas at Dallas*

TA8b3-6 Asymptotic Behavior of Extended Alamouti Schemes for large number of receive antennas  
*Markus Rupp, Vienna University of Technology; Christoph Mecklenbräuker, Forschungszentrum Telekommunikation Wien*

TA8b3-7 On Improving 4x4 Space-Time Codes  
*Frederique Oggier, California Institute of Technology; Gregory Berhuy, University of Southampton*

TA8b3-8 On Precoding for High Spatial Rate Space Time Codes  
*Erik Stauffer, Mohamad Charafeddine, Arogyaswami Paulraj, Stanford University*

TA8b3-9 Differential Diversity-Embedding Space-Time Block Coding  
*Payam Rabiei, Naofal Al-Dhahir, University of Texas at Dallas*

TA8b3-10 A Systematic Approach to the Design of Space-Time Block Coded MIMO Systems  
*Jo-Yen Nieh, Murali Tummala, Patrick Vincent, Naval Postgraduate School*

### Session TP1 Topics in Speech Processing for Next Generation Systems

Chair: *Sean Ramprashad*

TP1-1 MOSx and Voice Outage Rate in Wireless Communications  
*Sayantan Choudhury, Niranjan Shetty, Jerry D. Gibson, University of California, Santa Barbara* 1:30 PM

TP1-2 Distortion tradeoffs of different Layered Speech and Media Transmission Techniques over Wireless MIMO Systems  
*Sean Ramprashad, Christine Pepin, Ulas Kozat, DoCoMo USA Labs* 1:55 PM

TP1-3 BroadVoice®16: A PacketCable Speech Coding Standard for Cable Telephony  
*Raymond (Juin-Hwey) Chen, Jes Thyssen, Broadcom Corporation* 2:20 PM

TP1-4 Microphone array for spatial sound analysis and reconstruction  
*Jens Meyer, Gary W. Elko, mh acoustics* 2:45 PM

BREAK 3:10 PM

TP1-5 Multiple Description for Audio Packet Networks - A Comparative Study  
*W. Bastiaan Kleijn, Royal Institute of Technology (KTH); Jan Skoglund, Global IP Sound* 3:30 PM

TP1-6 Voice Communications over Tandem Wireline IP and WLAN Connections  
*Jerry D. Gibson, Bo Wei, Sayantan Choudhury, University of California, Santa Barbara* 3:55 PM

TP1-7 Enhanced Partitioned Stereo Residual Echo Estimation  
*Stefan Goetze, University of Bremen; Markus Kallinger, Carl von Ossietzky-University Oldenburg; Karl-Dirk Kammeyer, University of Bremen; Alfred Mertins, Carl von Ossietzky-University Oldenburg* 4:20 PM

TP1-8 Model-based eigenspectrum estimation for speech enhancement  
*Vinesh Bhunjun, Mike Brookes, Patrick A. Naylor, Imperial College London* 4:45 PM

## Session TP2 Resource Allocation in Networks

Chair: *Mingyan Liu*

- TP2-1 Optimal Sleep Scheduling of a Wireless Sensor Node 1:30 PM  
*David Shuman, Mingyan Liu, University of Michigan*
- TP2-2 Power Allocation in Linear and Tree WSN Topologies 1:55 PM  
*Gautam Thattai, Urbashi Mitra, University of Southern California*
- TP2-3 Optimal Scheduling for OFDMA Systems 2:20 PM  
*Rajeev Agrawal, Motorola Inc.; Randall Berry, Northwestern University; Jianwei Huang, Princeton University; Vijay Subramanian, Motorola Inc.*
- TP2-4 Uplink Power Allocation in Multicarrier Wireless Networks with Interference Cancellation 2:45 PM  
*Christopher Lott, Donna Ghosh, QUALCOMM Inc.*
- BREAK 3:10 PM
- TP2-5 Delay Optimal Transmission Scheduling under Energy and Deadline Constraints 3:30 PM  
*Bahadır Sarikaya, Sennur Ulukus, University of Maryland*
- TP2-6 Stability analysis of the cognitive interference channel 3:55 PM  
*Oswaldo Simeone, Yehekel Bar-Ness, New Jersey Institute of Technology; Umberto Spagnolini, Politecnico di Milano*
- TP2-7 Game Theoretic Approach to Joint CDMA Codeword and Power Adaptation 4:20 PM  
*Catalin Lacatus, Dimitrie C. Popescu, University of Texas at San Antonio*
- TP2-8 A General Optimization Framework for Stochastic Routing in Wireless Multi-hop Networks 4:45 PM  
*Alejandro Ribeiro, Zhi-Quan (Tom) Luo, University of Minnesota; Nikos Sidiropoulos, Technical University of Crete; Georgios B. Giannakis, University of Minnesota*

## Session TP3a Sparse Adaptive Systems

Chair: *Steven Grant*

- TP3a-1 Attacking the Slow Final Convergence Rate of PNLMS 1:30 PM  
*Ashrith Deshpande, Steven L. Grant, University of Missouri-Rolla*
- TP3a-2 Efficient use of sparse adaptive filters 1:55 PM  
*Andy W. H. Khong, Patrick A. Naylor, Imperial College*
- TP3a-3 Proportionate Adaptation and Partial Updates in Constrained Adaptive Filters 2:20 PM  
*Richard K. Martin, Air Force Institute of Technology*
- TP3a-4 Adaptive NLMS Partial Crosstalk Cancellation in Digital Subscriber Lines 2:45 PM  
*John Homer, Mandar Gujrathi, University of Queensland; Raphael Cendrillon, Marvell Hong Kong Ltd; Vaughan Clarkson, University of Queensland; Marc Moonen, Katholieke Universiteit Leuven*

## Session TP3b Blind Source Separation

Chair: *Shoji Makino*

- TP3b-1 Independent Vector Analysis 3:30 PM  
*Taesu Kim, KAIST; Intae Lee, Te-Won Lee, University of California, San Diego*
- TP3b-2 Recognition of convolutive speech mixtures by missing feature techniques for ICA 3:55 PM  
*Dorothea Kolossa, TU Berlin; Hiroshi Sawada, NTT Corporation; Ramon Fernandez Astudillo, Reinhold Orglmeister, TU Berlin; Shoji Makino, NTT Corporation*
- TP3b-3 Convolutive Demixing with Sparse Discrete Prior Models for Markov Sources 4:20 PM  
*Justinian Rosca, Siemens Corporate Research*
- TP3b-4 Blind separation and localization of speeches in a meeting situation 4:45 PM  
*Hiroshi Sawada, Shoko Araki, Ryo Mukai, Shoji Makino, NTT Corporation*

## Session TP4 Detection and Estimation

Chair: *Yonina Eldar*

- TP4-1 Parameter estimation in linear models based on outage probability minimization 1:30 PM  
*Sergiy Vorobyov, Darmstadt University of Technology; Yonina Eldar, Israel Institut of Technology - Technion; Alex Gershman, Darmstadt University of Technology*
- TP4-2 Investigation of Some Bias and MSE Issues in Block-Component-wise Conditionally Unbiased LMMSE 1:55 PM  
*Mahdi Triki, Dirk T. M. Slock, Institut Eurecom*
- TP4-3 Causal cyclic Wiener filtering 2:20 PM  
*Mark Spurbeck, deceased (2002); Peter Schreiber, University of Newcastle; Louis Scharf, Colorado State University*
- TP4-4 A Chebyshev Center Estimator in Regularized Regression with Bounded Noise 2:45 PM  
*Yonina Eldar, Amir Beck, Technion*
- BREAK 3:10 PM
- TP4-5 Compressive Sampling for Signal Classification 3:30 PM  
*Jarvis Haupt, University of Wisconsin-Madison; Rui Castro, Rice University; Robert Nowak, University of Wisconsin-Madison*
- TP4-6 Channel Estimation in the Presence of Communications Impairments 3:55 PM  
*Qiyue Zou, Alireza Tarighat, Ali H. Sayed, University of California, Los Angeles*
- TP4-7 Single Differential Modulation and Detection for MPSK in the Presence of Unknown Frequency Offset 4:20 PM  
*Jianhua Liu, Embry-Riddle Aeronautical University; Petre Stoica, Uppsala University; Marvin Simon, Jet Propulsion Laboratory - NASA; Jian Li, University of Florida*

TP4-8 Maximum Likelihood Covariance Estimation with a Condition Number Constraint 4:45 PM  
*Joong Ho Won, Seung-Jean Kim, Stanford Univeristy*

## Session TP5 Integrated Algorithms and Architectures

Chair: *John Lach*

TP5-1 Model-based Mapping of Image Registration Applications onto Configurable Hardware 1:30 PM  
*Yashwanth Hemaraj, Mainak Sen, University of Maryland, College Park; Raj Shekhar, Shuvra Bhattacharyya, University of Maryland, Baltimore County*

TP5-2 Real-Time Processing of Ultrasound Images with Speckle Reducing Anisotropic Diffusion 1:55 PM  
*Wenqian Wu, Scott T. Acton, John Lach, University of Virginia*

TP5-3 A multi-input multiplier unit suitable for adaptive DSP algorithm implementations 2:20 PM  
*Yunhua Wang, Linda DeBrunner, Victor DeBrunner, Dayong Zhou, University of Oklahoma*

TP5-4 Constraints Assisted Modeling and Validation in Metropolis Framework 2:45 PM  
*Guang Yang, University of California, Berkeley; Harry Hsieh, University of California, Riverside; Xi Chen, Novas Software, Inc.; Felice Balarin, Cadence Berkeley Laboratories; Alberto Sangiovanni-Vincentelli, University of California, Berkeley*  
BREAK 3:10 PM

TP5-5 Data-driven techniques for energy-efficient video processing 3:30 PM  
*Vasily Moshnyaga, Fukuoka University*

TP5-6 Power-performance optimal DSP architectures and ASIC implementation 3:55 PM  
*Farhana Sheikh, Melinda Ler, Radu Zlatanovici, University of California, Berkeley; Dejan Markovic, University of California, Los Angeles; Borivoje Nikolic, University of California, Berkeley*

TP5-7 A General Hardware/Software Codesign Methodology for Embedded Signal Processing and Multimedia Workloads 4:20 PM  
*Michael Brogioli, Predrag Radosavljevic, Joseph R. Cavallaro, Rice University*

TP5-8 Design and Implementation of an Energy Efficient Multimedia Playback System 4:45 PM  
*Zhijian Lu, John Lach, Kevin Skadron, Mircea Stan, University of Virginia*

## Session TP6 MIMO Systems with Limited Feedback

Chair: *Bhaskar Rao*

TP6-1 Space-Time Coding and Beamforming Using Noisy Rate-Limited Feedback 1:30 PM  
*Siavash Ekbatani, Hamid Jafarkhani, University of California, Irvine*

TP6-2 MIMO Broadcast Channels with Digital Channel Feedback 1:55 PM  
*Nihar Jindal, University of Minnesota*

TP6-3 Coordinated Precoding for Multi-user MIMO Communication with Limited Feedforward 2:20 PM  
*Chan-Byoung Chae, University of Texas at Austin; David Mazzaresse, Samsung Electronics; Robert W. Heath Jr., University of Texas at Austin*

TP6-4 Energy-Efficient MISO Systems Using Adaptive Modulation and Coding 2:45 PM  
*Antonio G. Marques, Universidad Rey Juan Carlos; Xin Wang, Georgios B. Giannakis, University of Minnesota*

BREAK 3:10 PM

TP6-5 Analysis of MIMO Systems with Finite-Rate Channel State Information Feedback 3:30 PM  
*Jun Zheng, Bhaskar Rao, University of California, San Diego*

TP6-6 Optimum Power Allocation in Fading MIMO Multiple Access Channels with Partial CSI at the Transmitters 3:55 PM  
*Alkan Soysal, Sennur Ulukus, University of Maryland*

TP6-7 Limited Feedback Unitary Matrix applied to MIMO dmin-based Precoder 4:20 PM  
*Jonathan Letessier, Baptiste Vrigneau, Philippe Rostaing, Gilles Burel, LEST - University of Brest*

TP6-8 Zero-Forcing Beamforming with Semiorthogonal User Selection Modified for Reducing Feedback Information 4:45 PM  
*Eun-Hee Shin, Dongwoo Kim, Hanyang University*

## Session TP7a Advanced Beamforming in Medical Imaging

Chair: *Francesco Viola*

TP7a-1 Near-Field, Broadband Adaptive Beamforming for Ultrasound Imaging 1:30 PM  
*Francesco Viola, William Walker, University of Virginia*

TP7a-2 Real-time synthetic aperture imaging: opportunities and challenges 1:55 PM  
*Svetoslav Nikolov, Jørgen Jensen, Borislav Tomov, Technical University of Denmark*

TP7a-3 Parametric Ultrasonic Imaging Using Linear Arrays for Breast Cancer Detection 2:20 PM  
*Pai-Chi Li, Sheng-Wen Huang, Cheng-Han Chang, National Taiwan University*

TP7a-4 MIMO Radar Medical Imaging 2:45 PM  
*Daniel Bliss, Keith Forsythe, Massachusetts Institute of Technology*

## Session TP7b Remote Sensing

Chair: *Randy Moses*

TP7b-1 Inferring Dynamic Dependency with Applications to Link Analysis 3:30 PM  
*Michael Siracusa, John Fisher III, Massachusetts Institute of Technology*

TP7b-2 Optimal Geometry Designs for Unconstrained and Topologically-Constrained Multistatic Sensors 3:55 PM  
*Ryan Fogle, Brian Rigling, Wright State University*

TP7b-3 Shape Estimation and Object Classification in Images Using Geometric Priors 4:20 PM  
*Shantanu Joshi, Anuj Srivastava, Florida State University*

TP7b-4 Enhanced Imaging over Complete Circular Apertures 4:45 PM  
*E. Ertin, L. C. Potter, R. Moses, The Ohio State University*

## Session TP8a1 MIMO Systems

TP8a1-1 Analysis of a MISO Pre-BLAST-DFE Technique for Decentralized Receivers  
*Patrick Amihoud, Elias Masry, Laurence Milstein, John Proakis, University of California, San Diego*

TP8a1-2 Uplink Multiuser MIMO Transceiver Design with Transmitting Beamforming under Power Constraints  
*Songnan Xi, Michael Zoltowski, Purdue University*

TP8a1-3 Precoding for Multiple Antenna Broadcast Channels with Channel Mismatch  
*Amir Dabbagh, David Love, Purdue University*

TP8a1-4 Frame Error Rate Analysis of Coded MIMO Systems with Spatial Multiplexing  
*Mikko Vehkaperä, Markku Juntti, University of Oulu*

TP8a1-5 Statistical comparison between max-dmin, max-SNR and MMSE precoders  
*Baptiste Vrigneau, Jonathan Letessier, Philippe Rostaing, LEST-UMR CNRS 6165; Ludovic Collin, E312-EA3876; Gilles Burel, LEST-UMR CNRS 6165*

TP8a1-6 Max-dmin precoder performances in a polarity diversity MIMO channel  
*Baptiste Vrigneau, Jonathan Letessier, Philippe Rostaing, LEST-UMR CNRS 6165; Ludovic Collin, E312-EA3876*

TP8a1-7 Blind Equalization of Frequency Selective MIMO Systems via Statistical and Trellis-Based Methods  
*Ansgar Scherb, Karl-Dirk Kammeyer, University Bremen; Tianbin Wo, Peter Hoeher, University Kiel*

TP8a1-8 Diversity-Multiplexing Tradeoff of GMD/UCD with Antenna Selection  
*Yi Jiang, Mahesh Varanasi, University of Colorado at Boulder*

TP8a1-9 Estimation of Frequency-Selective Block-Fading MIMO Channels Using PARAFAC Modeling and Alternating Least Squares  
*André de Almeida, Gérard Favier, Laboratoire I3S/CNRS; João Cesar Mota, Wireless Telecom Research Group (GTEL)*

TP8a1-10 Rate-Maximized Switching Between Spatial Transmission Modes  
*Malte Schellmann, Volker Jungnickel, Aydin Sezgin, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut; Elena Costa, Siemens AG*

TP8a1-11 Modified V-BLAST Symbol Detection Under Channel Uncertainties for MIMO Systems  
*Hyun Jong Yang, Joohwan Chun, Korea Advanced Institute of Science and Technology*

TP8a1-12 Diversity and Multiplexing Switching in 802.11n MIMO Systems  
*Huaning Niu, Chiu Ngo, Samsung Electronics*

TP8a1-13 BER Approximation for Extended V-BLAST Codes with Selection Combining  
*In-Ho Lee, Dongwoo Kim, Hanyang University*

TP8a1-14 End-to-End BER Performance of Cooperative MIMO Transmission with Antenna Selection in Rayleigh Fading  
*Jung-Bin Kim, Dongwoo Kim, Hanyang University*

TP8a1-15 Robust ZF Receiver Design in V-BLAST for Imperfect MIMO Channels  
*Jiansong Chen, Xiaoli Yu, University of Southern California*

TP8a1-16 An Efficient QRD-M Algorithm Using Partial Decision Feedback Detection  
*Kihwan Jeon, Hyounkuk Kim, Hyuncheol Park, Information and Communications University*

TP8a1-17 Lattice Reduction Aided MIMO Detectors with Quantization Error Correction  
*Jaehong Kim, Namshik Kim, Hyuncheol Park, Information and Communications University*

TP8a1-18 ARQ strategies for spatially multiplexed MIMO systems  
*Elisabeth de Carvalho, Petar Popovski, Aalborg University*

TP8a1-19 Adaptive modulation using outdated feedback for MIMO systems over time varying channels  
*Elisabeth de Carvalho, Aalborg University*

## Session TP8a2 Numerical Processing

Chair: *David Harris*

TP8a2-1 Quotient Pipelined Very High Radix Scalable Montgomery Multipliers  
*Nan Jiang, David Harris, Harvey Mudd College*

TP8a2-2 Multiplierless Piecewise Linear Approximation of Elementary Functions  
*Oscar Gustafsson, Kenny Johansson, Linköping University*

- TP8a2-3 A 1.5 GFLOPS Reciprocal Unit for Computer Graphics  
*Alberto Nannarelli, Morten Sleth Rasmussen, Matthias Bo Stuart, Danish Technical University*
- TP8a2-4 Comparison of Montgomery and Barrett modular multipliers on FPGAs  
*Yinan Kong, The University of Adelaide*
- TP8a2-5 Design of Shifting and Permutation Units using LSDL Circuit Family  
*Ramyanshu Datta, University of Texas at Austin; Robert Montoye, Kevin Nowka, Jun Sawada, IBM; Jacob A. Abraham, University of Texas at Austin*
- TP8a2-6 Dual-Mode Quadruple Precision Floating-Point Divider  
*Aytunc Isseven, Ahmet Akkas, Koc University*
- TP8a2-7 A Serial-In Parallel-Out Multiplier Using Redundant Representation for A Class of Finite Fields  
*Ashkan Hosseinzadeh Namin, Huapeng Wu, Majid Ahmadi, University of Windsor*
- TP8a2-8 A hybrid RNS adaptive filter for channel equalization.  
*Gian Carlo Cardarilli, Andrea Del Re, University of Rome Tor Vergata; Alberto Nannarelli, Technical University of Denmark; Marco Re, University of Rome Tor Vergata*
- TP8a2-9 High-Throughput Radix-4 LogMAP Turbo Decoder Architecture  
*Yuping Zhang, Keshab K. Parhi, University of Minnesota*
- TP8a2-10 Experiments for Decimal Floating-Point Division by Recurrence  
*Ivan Castellanos, James E. Stine, Oklahoma State University*
- TP8a2-11 Power and Area Efficient Squarer Design  
*Kyung-Ju Cho, Chonbuk National University*
- TP8a2-12 Fault-Tolerant Reversible Circuits  
*Behrooz Parhami, University of California, Santa Barbara*
- TP8a2-13 Optimizing Parametric Generators for Formally Verified VLSI Circuits  
*Peter-Michael Seidel, Southern Methodist University; James E. Stine, Oklahoma State University*
- Session TP8b1 OFDM**
- TP8b1-1 Improved Active-Set Tone Reservation for Complex-baseband PAR Reduction in OFDM System  
*Sen Jiang, STMicroelectronics*
- TP8b1-2 A High-Performance Double Differential OFDM UWB Receiver  
*Samia Islam, Naofal Al-Dhahir, University of Texas at Dallas*
- TP8b1-3 OFDMA-based broadcasting and access hybrid network  
*Hui Liu, Bin Liu, University of Washington*
- TP8b1-4 Error Probability Analysis of Peak Signaling over Fading Channels  
*Mustafa Gursoy, University of Nebraska-Lincoln*
- TP8b1-5 Experimental Evaluation and Demonstration of Acoustic OFDM  
*Yusuke Nakashima, Hosei Matsuoka, Takeshi Yoshimura, NTT DoCoMo Inc.*
- TP8b1-6 Iterative Joint Detection and Decoding for MIMO-OFDM Wireless Communications  
*Keun Chul Hwang, Sungwoo Park, Moon June, Soon Young Yoon, Samsung Electronics*
- TP8b1-7 On the Optimality of OFDMA MIMO Channels  
*Hongxiang Li, Hui Liu, University of Washington*
- TP8b1-8 Single-Sideband OFDM for Cellular Systems  
*Giridhar Mandyam, Nokia Inc.*
- TP8b1-9 Low-Complexity Time-Domain ICI Equalization for OFDM Communications over Rapidly Varying Channels  
*Tomasz Hrycak, University of Vienna; Gerald Matz, Vienna University of Technology*
- TP8b1-10 Iterative MAP Multi-User OFDM over Rapidly-Varying Frequency-Selective Channels  
*Thomas Keteoglou, Andrew Tom, California State Polytechnic University, Pomona*
- TP8b1-11 Efficient OFDM Channel Estimation in Mobile Environments Based on Irregular Sampling  
*Peter Fertl, Gerald Matz, Vienna University of Technology*
- TP8b1-12 Blind Sampling Clock Offset Estimation in OFDM Systems Based on Second Order Statistics  
*Amine Laourine, INRS-EMT; Alex Stephenne, Ericsson; Sofiene Affes, INRS-EMT*
- TP8b1-13 Performance Analysis of a Channel Estimator using Linear Interpolation for OFDM Systems  
*Athanasios Doukas, Grigorios Kalivas, University of Patras*
- TP8b1-14 Using Cyclic Prefix to Mitigate Carrier Frequency and Timing Asynchronism in Cooperative OFDM Transmissions  
*Xiaohua Li, Fan Ng, State University of New York at Binghamton*
- TP8b1-15 Generalized Subspace-based Algorithms For Blind Channel Estimation In Cyclic Prefix Systems  
*Borching Su, P. P. Vaidyanathan, California Institute of Technology*
- TP8b1-16 A Performance Bound for Interpolation of MIMO-OFDM Channels  
*Michael Larsen, A. Lee Swindlehurst, Brigham Young University; Thomas Svantesson, ArrayComm, Inc.*
- TP8b1-17 Achievable Outage Rates with Improved Decoding of Multiband OFDM Under Channel Estimation Errors  
*Sajad Sadough, Ecole Nationale Supérieure de Techniques Avancées; Pablo Piantanida, Pierre Duhamel, Laboratoire des Signaux et Systèmes*
- TP8b1-18 MMSE Detector for OFDM-based UWB Systems  
*Prasad Yaddanapudi, Dimitrie C. Popescu, University of Texas at San Antonio*
- TP8b1-19 Interference Mitigation Through Interference Avoidance  
*Suman Das, Harish Viswanathan, Bell Laboratories, Lucent Technologies*

- TP8b1-20 Multiuser Scheduling using Equal Power in Allocated Subcarriers for OFDM Uplink  
*Anastasios Giovanidis, Thomas Haustein, Yosia Hadisusanto, Aydin Sezgin, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut; Dongee Kim, Samsung Electronics*
- TP8b1-21 On the Performance of Spatial Modulation OFDM  
*Sudharsan Ganesan, Raed Mesleh, Harald Haas, International University Bremen; Chang Wook Ahn, Sangboh Yun, Samsung Advanced Institute of Technology*
- TP8b1-22 Error Vector Magnitude Analysis for OFDM Systems  
*Chunning Zhao, G. Tong Zhou, Georgia Institute of Technology*
- TP8b1-23 Vector transform-based OFDM  
*Todor Cooklev, San Francisco State University; Pierre Siohan, France Telecom*

### Session TP8b2 Biomedical Applications

Chair: *Marios Pattichis*

- TP8b2-1 An Improved Minimum Description Length Learning Algorithm for Nucleotide Sequence Analysis  
*Scott Evans, Steve Markham, Andrew Torres, GE Research; Antonis Kourtidis, Douglas Conklin, University at Albany*
- TP8b2-2 FPGA-Based Full Parallel Implementation Particle Detection  
*Jianfei Yang, Kyushu Institute of Technology*
- TP8b2-3 Derivation of the distribution of scatter kernel in X-ray imaging  
*Heng Li, Radhe Mohan, X. Ronald Zhu, University of Texas M.D. Anderson Cancer Center*
- TP8b2-4 Estimating the Unmeasured Dynamics of Biological Systems using a Constrained Real-Coded Genetic Algorithm  
*Cranos Williams, Winser Alexander, William Edmonson, North Carolina State University*
- TP8b2-5 A Reconfigurable FPGA-based 16-Channel Front-end for MRI  
*Ishaan Dalal, Ashwin Kirpalani, The Cooper Union for the Advancement of Science and Art*
- TP8b2-6 Design of Multiple Bandpass Filters with Integer Coefficients for a Microcontroller Environment with an Emphasis on Applications in Wearable Tremor Analysis  
*Harry Powell, John Lach, University of Virginia*
- TP8b2-7 Assessing Joint Time-Frequency Methods in the Detection of Dysfunctional Movement  
*Mark A. Hanson, John Lach, University of Virginia*
- TP8b2-8 The Filtered Spectral Rotation Measure  
*Ahmad Rushdi, Jamal Tuqan, University of California, Davis*

- TP8b2-9 A study of parallel MRI reconstruction approaches for sub-sampled partial-Fourier parallel-coil acquisition schemes  
*Carlos Zacarias Almarca, Technical University of Catalonia; W. Scott Hoge, Brigham and Women's Hospital; Dana H. Brooks, Northeastern University*

### Session WA1a Geospatial Image Processing

Chair: *Jim Fowler*

- WA1a-1 Shape-Adaptive Embedded Coding of Ocean-Temperature Imagery 8:30 AM  
*Justin Rucker, James Fowler, Mississippi State University*
- WA1a-2 An efficient and highly parallel hyperspectral imagery compression scheme based on distributed source coding 8:55 AM  
*Ngai-Man Cheung, Antonio Ortega, University of Southern California*
- WA1a-3 Three-dimensional SPIHT Coding of Hyperspectral Images with Random Access and Resolution Scalability 9:20 AM  
*Emmanuel Christophe, CNES / Alcatel Alenia Space / Onera; William A. Pearlman, Rensselaer Polytechnic Institute*
- WA1a-4 Quality assessment for remote sensing imagery: comparison between lossy and near-lossless compression 9:45 AM  
*Barbara Penna, Tammam Tillo, Enrico Magli, Gabriella Olmo, Politecnico di Torino*

### Session WA1b Superresolution Image and Video Enhancement

Chair: *Peyman Milanfar & Sina Farsiu*

- WA1b-1 Super-resolution Image Reconstruction Algorithms For Steerable Arrays of Sub-imagers 10:30 AM  
*Sally Wood, Hseuh-Ban Lan, Santa Clara University; Dinesh Rajan, Marc Christensen, Southern Methodist University*
- WA1b-2 Blind blur estimation using low rank approximation of Cepstrum 10:55 AM  
*H. Foroosh, University of Central Florida*
- WA1b-3 Image Registration, Blind Deblurring and Super-Resolution of an Aliased Video Sequence Using Adaptive Kernel Regression 11:20 AM  
*Hiroyuki Takeda, Sina Farsiu, Peyman Milanfar, University of California, Santa Cruz*
- WA1b-4 Filter-Bank Based Super-Resolution for Rotated and Blurry Undersampled Images 11:45 AM  
*Dung Vo Vo, Ryan Prendergast, Truong Nguyen, University of California, San Diego*



## Session WA2a Distributed Optimization in Wireless Communications

Chair: *Hesham El-Gamal*

- WA2a-1 Coalitional Games in Cooperative Radio Networks 8:30 AM  
*Suhas Mathur, Lalitha Sankaranarayanan, Narayan Mandayam, WINLAB, Rutgers University*
- WA2a-2 Leveraging Forward Link for Optimal Reverse Link Allocation: An Incentive Compatible Approach 8:55 AM  
*Jennifer Price, Tara Javidi, University of California, San Diego*
- WA2a-3 Performance of Random Access Scheduling Schemes in Multi-hop Wireless Networks 9:20 AM  
*Ness Shroff, Changhee Joo, Purdue University*
- WA2a-4 Distributed resource allocation and scheduling in OFDMA wireless networks. 9:45 AM  
*Xiangping Qin, Boston University; Randall Berry, Northwestern University*

## Session WA2b Emerging Applications of Communication Theory

Chair: *Olgica Milenkovic*

- WA2b-1 Nonlinear Exploration of High-Dimensional Biomedical Datasets 10:30 AM  
*Francois Meyer, University of Colorado at Boulder*
- WA2b-2 Error-Correcting Mechanisms in DNA Self-Assembly 10:55 AM  
*Manish Gupta, Navin Kashyap, Queen's University*
- WA2b-3 A Recursive Filter Algorithm for State Estimation from Simultaneously Recorded Continuous-Valued, Point Process and Binary Observations 11:20 AM  
*Todd Coleman, University of Illinois at Urbana-Champaign; Emery Brown, MIT; Mass. General Hospital; Harvard Medical School*
- WA2b-4 Enumeration of RNA secondary structures: a constrained coding approach 11:45 AM  
*Olgica Milenkovic, University of Colorado at Boulder; Emina Soljanin, Bell Laboratories, Lucent Technologies*

## Session WA3a Clinical and Pharmaceutical Imaging

Chair: *Jasjit Suri*

- WA3a-1 A robust strategy for breast lesion classification in ultrasound image volumes 8:30 AM  
*Paulo Sérgio Rodrigues, Gilson Antônio Giralddi, Ruey-Feng Chang, Jasjit Suri, National Laboratory for Scientific Computing*

- WA3a-2 Spatiotemporal independent component analysis for retinal images 8:55 AM  
*Eduardo Barriga, Marios S. Pattichis, University of New Mexico; Michael Abramoff, Randy Kardon, Young Kwon, University of Iowa; Daniel Ts'o, State University of New York; Peter Soliz, ORION International Technologies, Inc.*

- WA3a-3 3D ultrasound System for Analysis of Carotid Plaque Progression and Regression 9:20 AM  
*Aaron Fenster, Bernard Chiu, Anthony Landry, Grace Parraga, David Spence, Robarts Research Institute*

- WA3a-4 3-D Optimized Statistical Shape and Intensity Model for Prostate Segmentation in Transrectal Ultrasound (TRUS) Volumetric Data Sets 9:45 AM  
*Fuxing Yang, Diagnostic Ultrasound; Jasjit S. Suri, Biomedical Technologies Inc.; Aaron Fenster, Robarts Research Institute*

## Session WA3b Biomedical Signal and Image Processing

Chair: *Khan M. Iftekharuddin*

- WA3b-1 4D and 5D Image Reconstruction for Tomographic Image Sequences 10:30 AM  
*Miles Wernick, Yongyi Yang, Jovan G. Brankov, Mingwu Jin, Erwan Gravier, Illinois Institute of Technology; Michael A. King, Bing Feng, University of Massachusetts Medical Center*

- WA3b-2 Robust Segmentation and Volumetric Registration in a Multi-view 3D Freehand Ultrasound Reconstruction System 10:55 AM  
*Honggang Yu, Marios S. Pattichis, M. Beth Goens, University of New Mexico*

- WA3b-3 Brain Tumor Detection in MRI: Methodology and Statistical Validation 11:20 AM  
*Khan Iftekharuddin, Jing Zheng, Atiqul Islam, University of Memphis; Robert Ogg, Fred Lanningham, St. Jude Children's Hospital*

- WA3b-4 Speckle Reducing Anisotropic Diffusion for Echocardiography 11:45 AM  
*Alla Aksel, Andrew D. Gilliam, John A. Hossack, Scott T. Acton, University of Virginia*

## Session WA4 Nonlinear Filtering and Target Tracking

Chair: *Keh-Ping Dunn*

- WA4-1 Bearings-only tracking based on multiple sensor measurements and generalized particle filtering 8:30 AM  
*Petar M. Djuric, Mónica F. Bugallo, Stony Brook University*

- WA4-2 Distributed Target Tracking in a Wireless Sensor Network 8:55 AM  
*Clement Kam, William Hodgkiss, University of California, San Diego*

- WA4-3 The Jump Tracker: Nonlinear Bayesian Tracking with Adaptive Meshes and a Markov Jump Process Model 9:20 AM  
*Steven Smith, Massachusetts Institute of Technology*
- WA4-4 Nonparametric Bayesian Methods for Large Scale Multi-Target Tracking 9:45 AM  
*Emily Fox, David Choi, Alan Willsky, Massachusetts Institute of Technology*
- BREAK 10:10 AM
- WA4-5 Wave Filters 10:30 AM  
*Fred Daum, Raytheon; Hendrick Lambert, John Weatherwax, Massachusetts Institute of Technology Lincoln Laboratory*
- WA4-6 Monte Carlo Methods for Multi-Modal Distributions 10:55 AM  
*Daniel Rudoy, Patrick Wolfe, Harvard University*
- WA4-7 Tracking Separating Targets with Possibly Merged Measurements Using Generalized Janossey Measure Concept 11:20 AM  
*Shozo Mori, Chee-Yee Chong, BAE Systems*
- WA4-8 Studies in Tracking and launch Point Determination for Ballistic Missile Defens 11:45 AM  
*Robert Hutchins, Naval Postgraduate School*

### Session WA5a Reconfigurable Computing

Chair: *Chris Dick*

- WA5a-1 PetaOp/second FPGA Signal Processing for SETI and Radio Astronomy 8:30 AM  
*Dan Werthimer, University of California, Berkeley*
- WA5a-2 The Design of an FPGA-Based MIMO Receiver: Algorithmic and Architectural Interactions 8:55 AM  
*Brent Nelson, Michael Rice, Joseph Palmer, Brigham Young University*
- WA5a-3 Cognitive Radio Experiments using Reconfigurable BEE2 Platform 9:20 AM  
*Danijela Cabric, Artem Tkachenko, Robert Brodersen, Berkeley Wireless Research Center*
- WA5a-4 A Flexible Framework for Wireless Medium Access Protocols 9:45 AM  
*Chris Hunter, Siddharth Gupta, Patrick Murphy, Ashutosh Sabharwal, Rice University; Chris Dick, Xilinx Inc.*

### Session WA5b Low Power Techniques

Chair: *Braden Phillips*

- WA5b-1 Automatic Generation of Low-Power Circuits for the Evaluation of Polynomials 10:30 AM  
*Arnaud Tisserand, LIRMM, CNRS-UM2*
- WA5b-2 Confronting Security and Privacy Threats in Modern RFID Systems 10:55 AM  
*Damith Ranasinghe, Peter Cole, Braden Phillips, The University of Adelaide*

- WA5b-3 A new approach for glitch-free multipliers 11:20 AM  
*Nikolaos Mallios, Cardiff University of Wales; Neil Burgess, Icera Semiconductor*
- WA5b-4 A Multi-Mode Low-Energy Binary Adder 11:45 AM  
*Johannes Grad, Illinois Institute of Technology; James E. Stine, Oklahoma State University*

### Session WA6 MIMO Equalization

Chair: *Christoph Mecklenbrauker*

- WA6-1 Soft-Output MIMO Detection Algorithms: Performance and Implementation Aspects 8:30 AM  
*Christoph Studer, Markus Wenk, Andreas Burg, Helmut Bölcskei, ETH-Zurich*
- WA6-2 On the Diversity-Complexity Tradeoff in MIMO Spatial Multiplexing Systems 8:55 AM  
*Johannes Maurer, Gerald Matz, Dominik Seethaler, Vienna University of Technology*
- WA6-3 High Diversity Detection Using Semidefinite Relaxation 9:20 AM  
*Joakim Jaldén, KTH, Royal Institute of Technology; Björn Ottersten, Royal Institute of Technology (KTH)*
- WA6-4 High Rate Golden Space-Time Trellis Coded Modulation 9:45 AM  
*Yi Hong, University of South Australia; Emanuele Viterbo, Politecnico di Torino; Jean-Claude Belfiore, ENST, Paris*
- BREAK 10:10 AM
- WA6-5 Near Maximum Sum-Rate Non-Zero-Forcing Linear Precoding with Successive User Selection 10:30 AM  
*David Schmidt, Raphael Hunger, Michael Joham, Wolfgang Utschick, Munich University of Technology (TUM)*
- WA6-6 Diversity Aspects of Linear and Decision-Feedback Equalizers for Frequency-Selective Multi-Antenna Channels 10:55 AM  
*Dirk T. M. Slock, Institut Eurecom*
- WA6-7 Low Complexity Iterative Equalization For Severe Time Dispersive MIMO Channels 11:20 AM  
*Sajid Ahmed, Tharm Ratnarajah, Queen's University Belfast; Mathini Sellathurai, Cardiff University; Colin Cowan, Queen's University Belfast*
- WA6-8 Iterative Extended Soft-RLS Algorithm for Joint Channel and Frequency Offset Estimation for Coded MIMO-OFDM Systems 11:45 AM  
*Kyeong Jin Kim, Nokia Inc.; Tejas Bhatt, Nokia Networks; Ronald A. Iltis, University of California, Santa Barbara*

## Session WA7a Audio Coding and Processing

Chair: *Susanto Rahardja*

- WA7a-1 A study on the best wavelet for audio compression 8:30 AM  
*R. Capabianco Guido, Universidade de Sao Paulo; Everthon Fonseca, Sankaran Panchapagesan, Jose Pereira, Lucimar Vieira, Sylvio Barbon, Fabricio Sanchez, Marcio Guilherme, Kim Sergio, Thais Scarpa, Mauricio Monteiro, Paulo Fantinato, Emerson Moura, USP*
- WA7a-2 Efficient bit-allocation for MPEG-4 advanced audio coding 8:55 AM  
*C-H Yang, H-M Hang, National Chiao Tung University*
- WA7a-3 Perceptually layered scalable codec 9:20 AM  
*J. Li, J. J. Johnston, Microsoft Research*
- WA7a-4 Performance-complexity tradeoffs of the MPEG-4 ALS lossless coding standard 9:45 AM  
*T. Moriya, N. Harado, Y. Kamamoto, NTT Corporation*

## Session WA7b Wireless Networks

Chair: *Kostas Psounis*

- WA7b-1 On Functional Compression 10:30 AM  
*Deavavrat Shah, Massachusetts Institute of Technology*
- WA7b-2 Optimizing multi-copy routing schemes for resource-constrained intermittently connected mobile networks. 10:55 AM  
*Apoorva Jindal, Konstantinos Psounis, University of Southern California*
- WA7b-3 IPAC - IP Based Adaptive Packet Concatenation for Multihop Wireless Networks 11:20 AM  
*Ramya Raghavendra, Amit P. Jardosh, Elizabeth M. Belding-Royer, Haitao Zheng, University of California, Santa Barbara*
- WA7b-4 Resource Sharing and Delay Improvements in Networks 11:45 AM  
*Tara Javidi, University of California, San Diego*

## Session WA8a1 Coding, Decoding, and Receiver Design

- WA8a1-1 Improvements To Ordered Statistics Decoding Algorithm 8:30 AM  
*Hon Fah Chong, Hari Krishna Garg, National University of Singapore*
- WA8a1-2 Parallel Blind Multiuser Synchronization and Sequences Estimation in Multirate CDMA Transmissions 8:55 AM  
*Crépin Nsiala Nzéza, Roland Gautier, Gilles Burel, Université de Bretagne Occidentale*
- WA8a1-3 Blind Multiuser Identification in Multirate CDMA Transmissions: A New Approach 9:20 AM  
*Crépin Nsiala Nzéza, Roland Gautier, Gilles Burel, Université de Bretagne Occidentale*

- WA8a1-4 Receiver Architectures and Design Tradeoffs for CDMA Interference Cancellation 9:45 AM  
*John Smee, Jilei Hou, Joseph Soriaga, QUALCOMM Inc.*
- WA8a1-5 Channel Capacity and Dirty Paper Coding for Gaussian Channels with Additive and Multiplicative Interferences 10:10 AM  
*George Amariuca, Shuangqing Wei, Louisiana State University*
- WA8a1-6 Carrier and Timing Synchronization of BPSK via LDPC Code Feedback 10:35 AM  
*Esteban Valles, University of California, Los Angeles; Christopher Jones, Jet Propulsion Laboratory - NASA; John Villasenor, Richard Wesel, University of California, Los Angeles*
- WA8a1-7 MAP Decoding Algorithm for Extended Turbo Product Codes over Flat Fading Channel 11:00 AM  
*Changlong Xu, Ying-Chang Liang, Wing Seng Leon, Institute for Infocomm Research*
- WA8a1-8 A Unification of ML-Optimal Tree-Search Decoders 11:25 AM  
*Christoph Studer, Andreas Burg, Wolfgang Fichtner, ETH-Zurich*
- WA8a1-9 An Improved K-Best Sphere Decoding Architecture for MIMO Systems 11:50 AM  
*Qingwei Li, Zhongfeng Wang, Oregon State University*
- WA8a1-10 A Soft Stack Algorithm 12:15 PM  
*Nisha Champaneria, Todd K. Moon, Jacob H. Gunther, Utah State University*
- WA8a1-11 Low Complexity Radius Reduction Method for List Sphere Decoders 12:40 PM  
*Yuping Zhang, Jun Tang, Keshab K. Parhi, University of Minnesota*
- WA8a1-12 Hard Decision Error Correcting Schemes Based on LDPC Codes over Impulse Noise Channels 1:05 PM  
*Milos Ivkovic, Shuguang Cui, University of Arizona*
- WA8a1-13 Efficient Minimum-Variance Receivers for MC-CDMA Systems Using Transmit Diversity 1:30 PM  
*Shahrokh Nayeb Nazar, Ioannis Psaromiligkos, McGill University*
- WA8a1-14 Walsh-like Nonlinear Phase Orthogonal Transforms for CDMA Communications 1:55 PM  
*Radha Poluri, Ali N. Akansu, New Jersey Institute of Technology*
- WA8a1-15 Iterative LDPC CDMA Receiver with EM 2:20 PM  
*Don Torrieri, Army Research Laboratory; Avinash Mathur, Amitav Mukherjee, Hyuck Kwon, Wichita State University*
- WA8a1-16 Iterative Receiver with EM Channel Estimation and CDMA Turbo Coding 2:45 PM  
*Don Torrieri, Army Research Laboratory; Eser Ustunel, Hyuck Kwon, Wichita State University; Seunghyun Min, Dong-Hee Kang, Samsung Electronics*

## Session WA8a2 Array Signal Processing

- WA8a2-1 A Novel Beamformer Robust to Steering Vector Mismatch 8:30 AM  
*Chun-yang Chen, P. P. Vaidyanathan, California Institute of Technology*

- WA8a2-2 Complex Amplitude Estimation and Adaptive Detection in Low-Rank Interference  
*Aleksandar Dogandzic, Benhong Zhang, Iowa State University*
- WA8a2-3 Adaptive Antenna Algorithms Using Successively Re-encoded Data for GSM  
*Myung-Hoon Yeon, John Shynk, University of California, Santa Barbara; Richard Gooch, Applied Signal Technology, Inc.*
- WA8a2-4 Calibrating an array with scan dependent errors using a sparse grid  
*Maria Lanne, Astrid Lundgren, Mats Viberg, Chalmers University of Technology*
- WA8a2-5 Optimal Taper Design for Overlapped Subarray Formation  
*Jacob Griesbach, NAVSYS Corp.*
- WA8a2-6 CFAR adaptive TVAR versus diagonally loaded AMF detectors  
*Yuri Abramovich, DSTO; Nicholas Spencer, CSSIP / DSTO; Ben Johnson, RLM Management Pty Ltd & University of South Australia*
- WA8a2-7 MUSIC and Model-Order Selection for Spherically Invariant Random Vectors  
*Sebastien Bausson, Philippe Forster, GEA, IUT de Ville d'Avray*
- WA8a2-8 Space-Time-Frequency Adaptive Processor Design for Ultra-Sparse Apertures  
*Gary Hatke, Keith Forsythe, Andrew McKellips, Tri Phuong, Massachusetts Institute of Technology Lincoln Laboratory*
- WA8a2-9 Robust Array Processing with Uncertain Data  
*Almir Mutapcic, Seung-Jean Kim, Stephen Boyd, Stanford University*
- WA8a2-10 Endfire Supergain with a One-half Wavelength Spaced Uniform Line array of Pressure and Velocity Sensors  
*Henry Cox, Hung Lai, Lockheed Martin IS&S*
- WA8a2-11 Robust MVDR Beamforming with Dual Constraints  
*Michael Robinson, Ioannis Psaromiligkos, McGill University*
- WA8a2-12 Optimizing the Size of an Antenna Array  
*Patrick Vincent, Murali Tummala, John McEachen, Naval Postgraduate School*
- WA8a2-13 Source Localization from a Moving Array of Sensors  
*David R. Keller, Todd K. Moon, Jacob H. Gunther, Utah State University*
- WA8a2-14 "Eye Array" Sound Source Localization  
*Hedayat Alghassi, Shahram Tafazolli, Peter Lawrence, University of British Columbia*
- WA8a2-15 Wideband Adaptive Beamforming Using Linear Phase Filterbanks  
*Peter Vouras, Trac D. Tran, Johns Hopkins University*
- WA8a2-16 GPS Interference Cancellation Performance for Single and Multiple MVDR Beamformers  
*Jing Wang, Moeness Amin, Villanova University*

## Author List

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Acton, Scott T.	TP5.2	Basu, S.	MA3b.1
Acton, Scott T.	WA3b.4	Bausson, Sebastien	WA8a2.7
Adali, Tulay	MP3.8	Bayoumi, Magdy	TA5.2
Adams, Vinh	TA8b2.6	Beck, Amir	TP4.4
Aeron, Shuchin	MP4.6	Belding-Royer, Elizabeth M.	WA7b.3
Affes, Sofiene	TP8b1.12	Belfiore, Jean-Claude	WA6.4
Agarwal, Rajiv	MP8a1.15	Bendoukha, Samir	MA7b.5
Agrawal, Rajeev	TP2.3	Berhuy, Gregory	TA8b3.7
Ahmadi, Majid	MP5.5	Bernd, Karen	MP1b.3
Ahmadi, Majid	TA5.8	Berns, Michael	MP1b.1
Ahmadi, Majid	TP8a2.7	Berry, Randall	TP2.3
Ahmed, Arshad	TA5.3	Berry, Randall	WA2a.4
Ahmed, Sajid	MP8b2.10	Bhargava, Rohit	MA4b.5
Ahmed, Sajid	WA6.7	Bharitkar, Sunil	TA8a3.8
Ahn, Chang Wook	TP8b1.21	Bhashyam, Srikrishna	TA2.7
Akansu, Ali N.	WA8a1.14	Bhatt, Tejas	MA5a.5
Akkas, Ahmet	TP8a2.6	Bhatt, Tejas	MP8b2.18
Aksel, Alla	WA3b.4	Bhatt, Tejas	WA6.8
Al-Dhahir, Naofal	TA8b3.5	Bhattacharyya, Shuvra	TP5.1
Al-Dhahir, Naofal	TA8b3.9	Bhattad, Kapil	MP2.5
Al-Dhahir, Naofal	TP8b1.2	Bhunjun, Vinesh	TP1.8
Alexander, Winsler	TA8b1.2	Bianchi, Domenico	TA8b1.4
Alexander, Winsler	TP8b2.4	Biswas, Arijit	TA8a3.4
Alexandropoulos, Ioannis	MP8b1.7	Biswas, Kevin	TA5.8
Alghassi, Hedayat	WA8a2.14	Blem, Emily	MP5.8
Allen, Gregory	TA8b1.9	Bliss, Daniel	TA8b3.2
Almarcha, Carlos Zacarias	TP8b2.9	Bliss, Daniel	TP7a.4
Amariuca, George	WA8a1.5	Blum, Rick	MA2b.2
Amihood, Patrick	TP8a1.1	Boas, David	MP1a.4
Amin, Moeness	MP4.8	Boche, Holger	MP6.5
Amin, Moeness	MP8a2.15	Boche, Holger	MP8a1.11
Amin, Moeness	WA8a2.16	Boche, Holger	TA8b2.7
Amiri, Kiarash	MA5a.4	Bölcskei, Helmut	WA6.1
An, Cheolhong	TA8a2.9	Botvinick, Elliot	MP1b.1
Anderson, Adam	MA6b.2	Bouman, Charles A.	MP1a.2
Anderson, Donald	MP7.6	Boutin, Mireille	TA7.4
Andrews, Jeffrey	MA1b.3	Boyd, John	TA8a1.1
Annapureddy, Venkata Sreekantha Reddy	TA2.7	Boyd, Stephen	WA8a2.9
Araki, Shoko	TP3b.4	Bradley, Andrew	MP7.7
Aust, Laura	MP1b.3	Brankov, Jovan G.	WA3b.1
B S, Shreyas	MP8b1.1	Brislawn, Christopher M.	TA4.4
Baker, Norman	MP1b.1	Brodersen, Robert	MA5a.3
Balachandran, Nikil	MP8a2.8	Brodersen, Robert	WA5a.3
		Broglioli, Michael	TP5.7

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Brookes, Mike	TP1.8	Cheung, Ngai-Man	WA1a.2	Das, Sibasish	MP8a1.12	Elliott, Robert	TA8a1.1
Brooks, Dana H.	MP1a.4	Chiu, Bernard	WA3a.3	Das, Sibasish	TA2.6	Ellis, D.	MA3b.2
Brooks, Dana H.	TP8b2.9	Cho, Kyung-Ju	TP8a2.11	Das, Suman	TP8b1.19	El-Shehaby, Iman	MP7.5
Broussard, Randy P.	MP8b1.4	Cho, Sunghyun	TA2.4	Dash, Debashis	MP8b2.19	Ercegovic, Milos	MP5.6
Brown, Emery	WA2b.3	Choi, David	WA4.4	Datta, Ramyanshu	TP8a2.5	Ercegovic, Milos	MP5.2
Bugallo, Mónica F.	WA4.1	Choi, Gwan	TA8b1.10	Daum, Fred	WA4.5	Ermis, Erhan	MP4.6
Burel, Gilles	TP6.7	Chong, Chee-Yee	WA4.7	de Almeida, André	TP8a1.9	Ertin, E.	TP7b.4
Burel, Gilles	TP8a1.5	Chong, Hon Fah	WA8a1.1	de Baynast, Alexandre	MP8b2.22	Etemadi, Farzad	MP8a1.4
Burel, Gilles	WA8a1.2	Choudhury, Sayantan	TP1.1	de Carvalho, Elisabeth	TP8a1.18	Ettefagh, Azadeh	MP8b2.14
Burel, Gilles	WA8a1.3	Choudhury, Sayantan	TP1.6	de Carvalho, Elisabeth	TP8a1.19	Etter, Delores	MP8b1.3
Burg, Andreas	WA6.1	Chow, Khin C.	TA8a2.13	de Francisco, Ruben	MP6.4	Evans, Brian L.	MA5a.1
Burg, Andreas	WA8a1.8	Christensen, Marc	WA1b.1	de Lacerda, Raul	MP6.7	Evans, Brian L.	TA8b1.9
Burgess, Neil	WA5b.3	Christophe, Emmanuel	WA1a.3	de Oliveira, J. C.	MP4.7	Evans, Bruce W.	MA2b.5
Byman, Aaron	TA8b1.3	Chun, Joohwan	TP8a1.11	Debbah, Mérouane	MP6.7	Evans, Robin J.	MP8a2.11
Cabric, Danijela	WA5a.3	Cimini, Len	MA2b.2	DeBrunner, Linda	TP5.3	Evans, Scott	TP8b2.1
Cain, Gerald	TA8b2.3	Cioffi, John M.	MP2.1	DeBrunner, Victor	MA7b.4	Fantinato, Paulo	WA7a.1
Cain, Gerald	TA8b2.4	Cioffi, John M.	MP8a1.15	DeBrunner, Victor	MP8a2.14	Fargues, Monique	MP8b1.7
Caire, Giuseppe	MP2.5	Claesson, Ingvar	MP8b1.2	DeBrunner, Victor	TP5.3	Fargues, Monique	TA8a2.13
Caire, Giuseppe	MP6.2	Clarkson, Vaughan	TP3a.4	del Coso, Aitor	MP8b2.11	Farsiu, Sina	WA1b.3
Calderbank, Robert	TA1.5	Clarkson, William	MP8b2.1	Del Re, Andrea	TA8b1.4	Favier, Gérard	TP8a1.9
Campana, Ottavio	TA8a2.2	Cochran, Douglas	TA1.4	Del Re, Andrea	TP8a2.8	Feng, Bing	WA3b.1
Cao, Guangzhi	MP1a.2	Codreanu, Marian	MP8a1.9	Demos, Stavros	MA4b.4	Fenster, Aaron	WA3a.4
Capabianco Guido, R.	WA7a.1	Cohen, Aaron	TA8b1.12	den Brinker, Albertus C.	TA8a3.4	Fenster, Aaron	WA3a.3
Cappellari, Lorenzo	TA8a2.10	Cole, Peter	WA5b.2	Deng, Hongyang	MP3.4	Fernandez Astudillo, Ramon	TP3b.2
Capponi, Agostino	MP8a1.14	Coleman, Todd	WA2b.3	Deshpande, Ashrith	TP3a.1	Fertil, Peter	TP8b1.11
Cardarilli, Gian Carlo	TA8b1.4	Collin, Ludovic	TP8a1.5	Diamond, Solomon	MP1a.4	Fichtner, Wolfgang	WA8a1.8
Cardarilli, Gian Carlo	TP8a2.8	Collin, Ludovic	TP8a1.6	Dick, Chris	TA8b1.1	Fisher III, John	TP7b.1
Cassidy, Ryan	TA8a3.9	Comer, Mary	MP7.1	Dick, Chris	TA8b1.11	Fletcher, Daniel	MP1b.2
Castellanos, Ivan	TP8a2.10	Comer, Mary	TA7.4	Dick, Chris	WA5a.4	Fogle, Ryan	TP7b.2
Castro, Rui	TP4.5	Conklin, Douglas	TP8b2.1	Diem, Max	MA4b.3	Fonseca, Everthon	WA7a.1
Caudal, Frédéric	MP8b1.6	Constantinides, Anthony G.	TA3.4	Dimitrov, Vassil	TA5.5	Foroosh, H.	WA1b.2
Cavallaro, Joseph R.	MA5a.4	Contiero, Roberto	TA8a2.2	Ding, Zhiguo	MP8b2.10	Forster, Philippe	WA8a2.7
Cavallaro, Joseph R.	TA8b1.3	Cooklev, Todor	TP8b1.23	Divakaran, Ajay	MA3b.5	Forsythe, Keith	TA8b3.2
Cavallaro, Joseph R.	TA8b1.6	Cooper, Alfred	TA8a2.13	Djuric, Petar M.	WA4.1	Forsythe, Keith	TP7a.4
Cavallaro, Joseph R.	TP5.7	Correa, Nicole	MP3.8	Do, Minh N.	MP7.4	Forsythe, Keith	WA8a2.8
Cendrillon, Raphael	TP3a.4	Cosman, Pamela	TA8a2.12	Do, Minh N.	TA4.5	Fowler, James	WA1a.1
Chae, Chan-Byoung	TP6.3	Costa, Elena	TA8b2.8	Dogandzic, Aleksandar	WA8a2.2	Fox, Emily	WA4.4
Chakrabarti, Arnab	MP8b2.22	Costa, Elena	TP8a1.10	Dolan, Brian	TA3.1	Friedlander, Benjamin	MP8a1.6
Chamberland, Jean-Francois	MP4.1	Costa, Nelson	TA6.7	Doroslovacki, Milos	MP3.4	Friedlander, Benjamin	TA1.1
Champaneria, Nisha	WA8a1.10	Coutts, Scott	MA2b.1	Doukas, Athanasios	TP8b1.13	Friedlander, Benjamin	TA8a1.4
Chang, Cheng-Han	TP7a.3	Cowan, Colin	MP8b2.10	Duarte, Melissa	TA8b1.1	Fuemmeler, Jason	MP4.4
Chang, Ruey-Feng	WA3a.1	Cowan, Colin	WA6.7	Duhamel, Pierre	TP8b1.17	Fuhrmann, Daniel	MA2b.4
Charafeddine, Mohamad	TA8b3.8	Cox, Henry	WA8a2.10	Dvornikov, Alexander	MP1b.1	Fussell, Donald	TA3.2
Che, Chia-Yin	MP8a2.11	Creusere, Charles	MP8a2.8	Dwelly, Wesley	TA8b2.6	Galatsanos, Nikolas	MP1a.3
Chellappa, Vijay	TA8a2.12	Creusere, Charles	TA4.3	Dyaberi, Vidyarani	MA3b.4	Gan, Woon-Seng	MP3.5
Chen, Chun-Yang	MA2b.6	Creusere, Charles	TA8a2.5	Easley, Glenn	TA7.2	Ganesan, Sudharsan	TP8b1.21
Chen, Chun-yang	WA8a2.1	Cruz, Rene	MA6b.4	Ebadollahi, Shahram	MA3b.3	Ganti, Radha Krishna	MA1b.1
Chen, Jiansong	TP8a1.15	Cui, Jing	TA3.8	Edmonson, William	MP3.7	Garcia-Luna-Aceves, J. J.	MA1b.2
Chen, Raymond (Juin-Hwey)	TP1.3	Cui, Shuguang	MP8a1.7	Edmonson, William	TP8b2.4	Garcia-Luna-Aceves, J. J.	MA6b.5
Chen, Xi	TP5.4	Cui, Shuguang	WA8a1.12	Ekbatani, Siavash	TP6.1	Garg, Hari Krishna	WA8a1.1
Chen, Xiaoling	MP8a2.10	Dabbagh, Amir	TP8a1.3	Elanchezian, A.	MP4.7	Gastpar, Michael	MP2.7
Chen, Yunxia	MP8b2.17	Dalal, Ishaan	TP8b2.5	Eldar, Yonina	TP4.4	Gaunt, Ruth	MP8b1.3
Cheng, Bing Hwa	MP8b2.16	Dana, Amir F.	TA2.5	Eldar, Yonina	TP4.1	Gautier, Roland	WA8a1.2
Cheng, Bing Hwa	TA8b2.6	Dane, Gokce	TA8a2.6	Elko, Gary W.	TP1.4	Gautier, Roland	WA8a1.3

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Gelal, Ece	MA6b.3	Hammarwall, David	TA1.6	Hutchins, Gary	TA8a1.1	Joham, Michael	WA6.5
George, E. Olusegun	TA3.6	Hammerström, Ingmar	MP8b2.12	Hutchins, Robert	WA4.8	Johansson, Hakan	TA4.7
Gershman, Alex	TP4.1	Hammerström, Ingmar	MP8b2.14	Hwang, Chan-Soo	MP2.1	Johansson, Kenny	TP8a2.2
Gesbert, David	MP6.4	Han, Kyungtae	MA5a.1	Hwang, Keun Chul	TP8b1.6	Johnson, Ben	WA8a2.6
Ghosh, Donna	TP2.4	Hang, H-M	WA7a.2	Hwang, Sungjun	MA7b.2	Johnson, Louis	TA8a1.5
Giannakis, Georgios B.	MP8a2.5	Hanson, Grant	TA4.1	Ibars, Christian	MP8b2.11	Johnson, Jr., C. Richard	MP3.3
Giannakis, Georgios B.	TP2.8	Hanson, Mark A.	TP8b2.7	Ichir, Mahieddine	TA8b2.9	Johnston, J. J.	WA7a.3
Giannakis, Georgios B.	TP6.4	Harado, N.	WA7a.4	Iftekharuddin, Khan	TA3.6	Jojic, N.	MA3b.2
Gibson, Jerry D.	TA7.8	Hari Krishna, Garg	MP8a1.5	Iftekharuddin, Khan	WA3b.3	Jones, Christopher	WA8a1.6
Gibson, Jerry D.	TP1.1	Harris, David	TP8a2.1	Iltis, Ronald A.	TA2.8	Jones, Howland	MA4b.2
Gibson, Jerry D.	TP1.6	harris, fred	TA8b1.11	Iltis, Ronald A.	WA6.8	Joo, Changhee	WA2a.3
Gilliam, Andrew D.	WA3b.4	Hassibi, Babak	MA1b.4	Irick, Kevin	TA5.4	Jorsweick, Eduard	MP6.5
Gindy, Mayrai	MP8a2.7	Hassibi, Babak	MP8b2.13	Irwin, Mary Jane	TA5.4	Jorsweick, Eduard	MP6.6
Giovanidis, Anastasios	TP8b1.20	Hassibi, Babak	TA2.5	Islam, Atiqul	TA3.6	Joshi, Shantanu	TP7b.3
Giraldi, Gilson Antônio	WA3a.1	Hatke, Gary	WA8a2.8	Islam, Atiqul	WA3b.3	Jullien, Graham	MP5.5
Glossner, John	MP5.8	Haupt, Jarvis	TP4.5	Islam, K.M. Zahidul	TA8b3.5	Jullien, Graham	TA5.5
Goens, M. Beth	WA3b.2	Haustein, Thomas	TP8b1.20	Islam, Samia	TP8b1.2	June, Moon	TP8b1.6
Goetze, Stefan	TP1.7	Haykin, Simon	MP3.1	Issevan, Aytunc	TP8a2.6	Jungnickel, Volker	TA8b2.8
Goldsmith, Andrea	MP6.1	Haykin, Simon	MP8a1.7	Isukapalli, Yogananda	MP8a1.10	Jungnickel, Volker	TP8a1.10
Gómez-Vilardebó, Jesús	MP2.2	Heath Jr., Robert W.	TA2.4	Ives, Robert W.	MP8b1.3	Juntti, Markku	MP8a1.9
Gong, Xiaojin	TA7.7	Heath Jr., Robert W.	TP6.3	Ives, Robert W.	MP8b1.4	Juntti, Markku	TA8b1.3
Gooch, Richard	WA8a2.3	Heikkinen, Jari	MA5a.2	Ivkovic, Milos	WA8a1.12	Juntti, Markku	TP8a1.4
Goodwin, Michael	TA8a3.3	Helmke, Brian P.	MP1b.4	Jafar, Syed	MA1b.5	Kadambe, Shubha	TA8b2.6
Gowaiakar, Radhika	MA1b.4	Hemaraj, Yashwanth	TP5.1	Jafar, Syed	MP2.8	Kalivas, Grigorios	TP8b1.13
Grad, Johannes	WA5b.4	Hermes, Douglas	MP8a1.13	Jafarkhani, Hamid	MP8a1.4	Kallinger, Markus	TP1.7
Græsbøll Christensen, Mads	MP8a2.3	hewer, Gary	TA4.1	Jafarkhani, Hamid	TP6.1	Kam, Clement	WA4.2
Græsbøll Christensen, Mads	TA8a3.6	Hinds, Chris	MP5.7	Jaffer, Amin G.	MA2b.5	Kam, Pooi-Yuen	MP8b2.5
Grant, Steven L.	TP3a.1	Hoang, Duong	TA2.8	Jagannatham, Aditya	TA1.7	Kamamoto, Y.	WA7a.4
Gravier, Erwan	WA3b.1	Hodgkiss, William	MP8a1.8	Jaklari, Gentian	MA6b.3	Kammeyer, Karl-Dirk	TP1.7
Griesbach, Jacob	WA8a2.5	Hodgkiss, William	WA4.2	Jakobsson, Andreas	MP8a2.3	Kammeyer, Karl-Dirk	TP8a1.7
Guilford, William	MP1b.3	Hoehner, Peter	TP8a1.7	Jaldén, Joakim	WA6.3	Kang, Dong-Hee	WA8a1.16
Guilherme, Marcio	WA7a.1	Hoge, W. Scott	TP8b2.9	James, Jodi	MA3b.4	Kao, Meng-Ping	TA8a2.11
Gujrathi, Mandar	TP3a.4	Holdt Jensen, Søren	MP8a2.3	Jardosh, Amit P.	WA7b.3	Kaplan, Lance	MP8a1.14
Gunnam, Kiran	TA8b1.10	Holdt Jensen, Søren	TA8a3.6	Javidi, Tara	MA6b.4	Kar, Soumyya	MP4.2
Gunther, Jacob H.	WA8a1.10	Homer, John	TP3a.4	Javidi, Tara	WA2a.2	Karadimou, Kiki	TA8a3.1
Gunther, Jacob H.	WA8a2.13	Hong, Yi	WA6.4	Javidi, Tara	WA7b.4	Kardon, Randy	WA3a.2
Guo, Bin	TA3.3	Hossack, John A.	WA3b.4	Jayant, Nikil	TA8a2.1	Karp, Tanja	MP7.3
Guo, Jiangling	MP7.3	Hosseinpour, Mehdi	TA8a3.5	Jenkins, Christipher	MP5.8	Kashyap, Navin	WA2b.2
Guo, Wenbin	MP8a1.7	Hosseinzadeh Namin, Ashkan	TP8a2.7	Jenkins, Kenneth	TA5.6	Keith, Frances	MA4b.5
Gupta, Manish	WA2b.2	Hou, Jilei	WA8a1.4	Jensen, Jørgen	TP7a.2	Keller, David R.	WA8a2.13
Gupta, S.	MA3b.1	Hourani, Ramsey	TA8b1.2	Jensen, Michael	MA6b.2	Kennell, Lauren R.	MP8b1.4
Gupta, Siddharth	WA5a.4	Howard, Stephen	TA1.4	Jeon, Kihwan	TP8a1.16	Ketseoglou, Thomas	TP8b1.10
Gursoy, Mustafa	TP8b1.4	Howard, Stephen	TA1.5	Jeremic, Aleksandar	TA3.7	Khong, Andy W. H.	TP3a.2
Gustafsson, Oscar	TA4.7	Hrycak, Tomasz	TP8b1.9	Jiang, Jinhua	MP8a1.5	Khoshnevis, Ahmad	MP8b2.19
Gustafsson, Oscar	TP8a2.2	Hsieh, Harry	TP5.4	Jiang, Nan	TP8a2.1	Kim, Dongee	TP8b1.20
Gutierrez, David	MP1a.1	Hu, Jing	TA7.8	Jiang, Sen	TP8b1.1	Kim, Dongwoo	TP6.8
Haaland, David	MA4b.2	Hua, Kai-Lung	MP7.1	Jiang, Yi	TP8a1.8	Kim, Dongwoo	TP8a1.13
Haardt, Martin	TA6.8	Huang, Hesu	TA8a3.2	Jin, Mingwu	WA3b.1	Kim, Dongwoo	TP8a1.14
Haas, Harald	TP8b1.21	Huang, Jianwei	TP2.3	Jin, Yuanwei	TA1.8	Kim, Euncheol	TA8b1.10
Hadeif, Mahmoud	MA7b.5	Huang, Lawrence	MP1b.4	Jindal, Apoorva	WA7b.2	Kim, Hyounkuk	TP8a1.16
Hadisusanto, Yosia	TP8b1.20	Huang, Sheng-Wen	TP7a.3	Jindal, Nihar	MP6.2	Kim, Jaehong	TP8a1.17
Haenggi, Martin	MA1b.1	Huang, Steve	TA8b2.5	Jindal, Nihar	TA2.1	Kim, Jung-Bin	TP8a1.14
Haimovich, Alexander	MA2b.2	Hunger, Raphael	WA6.5	Joachim, Dale	MP6.2	Kim, Kyeong Jin	MP6.8
Haimovich, Alexander	MP2.3	Hunter, Chris	WA5a.4		MP8b2.1	Kim, Kyeong Jin	WA6.8

<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>	<b>NAME</b>	<b>SESSION</b>
Kim, Namshik .....	TP8a1.17	Laourine, Amine .....	TP8b1.12	Liu, Lingjia .....	MP4.1	McIlhenny, Robert .....	MP5.2
Kim, Seung-Jean .....	TP4.8	LaRocca, Brian .....	TA8b1.5	Liu, Mingyan .....	TP2.1	McKellips, Andrew .....	WA8a2.8
Kim, Seung-Jean .....	WA8a2.9	Larsen, Michael .....	TP8b1.16	Loizou, Christos .....	TA3.4	Mecklenbräuker, Christoph .....	MP8b2.7
Kim, Taesu .....	TP3b.1	Lashkari, Khosrow .....	TA8a3.7	Lopes, Cassio .....	TA8a1.9	Mecklenbräuker, Christoph .....	TA8b3.6
Kim, Youngsoo .....	TA8b1.2	Latva-aho, Matti .....	MP8a1.9	Lopes, Cassio G. ....	MP3.2	Medard, Muriel .....	MP8b2.8
King, Michael A. ....	WA3b.1	Lawrence, Peter .....	WA8a2.14	Lott, Christopher .....	TP2.4	Medda, Alessio .....	MP8a2.14
Kinser, Jason .....	TA7.6	Laxminarayan, Srinivas .....	MP1a.4	Love, David .....	TA2.3	Mehlfuehrer, Christian .....	MA7b.1
Kirpalani, Ashwin .....	TP8b2.5	Lee, In-Ho .....	TP8a1.13	Love, David .....	TP8a1.3	Melgaard, David .....	MA4b.2
Kleijn, W. Bastiaan .....	TP1.5	Lee, Intae .....	TP3b.1	Lowrie, Christopher .....	TA8a3.10	Mertins, Alfred .....	TP1.7
Klein, Jeffrey .....	TA8b2.1	Lee, Jungwoo .....	MP8b2.6	Lu, Yue .....	MP7.4	Mesleh, Raed .....	TP8b1.21
Kobayashi, Mari .....	MP6.2	Lee, Juyul .....	TA2.1	Lu, Yue .....	TA4.5	Meyer, Francois .....	WA2b.1
Koepl, Heinz .....	TA8a1.8	Lee, Kong-Aik .....	MP3.5	Lu, Yufeng .....	MP8a2.1	Meyer, Jens .....	TP1.4
Koetter, Ralf .....	TA5.3	Lee, Kyoungwan .....	MP2.4	Lu, Zhijian .....	TP5.8	Mian, Gian Antonio .....	TA8a2.10
Koivunen, Visa .....	TA6.1	Lee, Shu-Ting .....	MP8a1.16	Lukic, Ana .....	MP1a.3	Michael, J. Bret .....	MP8b2.21
Koivunen, Visa .....	TA6.4	Lee, Te-Won .....	TP3b.1	Lundgren, Astrid .....	WA8a2.4	Milanfar, Peyman .....	WA1b.3
Kolossa, Dorothea .....	TP3b.2	Lehmann, Nikolaus .....	MA2b.2	Luo, Zhi-Quan (Tom) .....	TP2.8	Milenkovic, Olgica .....	WA2b.4
Kong, Rong .....	MA4b.5	Lehmann, Stefan .....	MP7.7	Lutz, David .....	MP5.7	Miller, Eric .....	MP1a.4
Kong, Yinan .....	TP8a2.4	Leon, Wing Seng .....	WA8a1.7	MacLaren Walsh, John .....	MP3.3	Millington, Steven .....	MP7.6
Kountouris, Marios .....	MP6.4	Ler, Melinda .....	TP5.6	Macleod, Malcolm D. ....	MA7b.3	Milstein, Larry .....	MA6b.4
Kourtidis, Antonis .....	TP8b2.1	Letessier, Jonathan .....	TP6.7	Magli, Enrico .....	WA1a.4	Milstein, Laurence .....	TP8a1.1
Kozat, Ulas .....	TP1.2	Letessier, Jonathan .....	TP8a1.5	Mäkinen, Risto .....	MA5a.2	Min, Seunghyun .....	WA8a1.16
Kragh, Frank .....	MP8a1.13	Letessier, Jonathan .....	TP8a1.6	Makino, Shoji .....	TP3b.2	Mirhassani, Mitra .....	MP5.5
Krishnamurthy, Srikanth .....	MA6b.3	Levenson, Richard .....	MA4b.1	Makino, Shoji .....	TP3b.4	Mish, Kyran .....	MP8a2.14
Krishnaswamy, D. ....	TA7.1	Levy, Bernard .....	TA8b2.5	Mallios, Nikolaos .....	WA5b.3	Mitra, Sunanda .....	MP7.3
Ku, Geng .....	TA3.3	Li, Bing .....	MP7.6	Mamidi, Suman .....	MP5.8	Mitra, Urbashi .....	TP2.2
Kubichek, Robert .....	TA8a2.7	Li, Heng .....	TP8b2.3	Mandayam, Narayan .....	WA2a.1	Mohammad-Djafari, Ali .....	TA8b2.9
Kuhn, Marc .....	MP8b2.12	Li, Hongxiang .....	TP8b1.7	Mandyam, Giridhar .....	TP8b1.8	Mohan, Radhe .....	TP8b2.3
Kuhn, Marc .....	MP8b2.14	Li, Hualiang .....	MP3.8	Mansfield, James .....	MA4b.1	Monteiro, Mauricio .....	WA7a.1
Kumar, Vinay .....	MP8b1.1	Li, J. ....	WA7a.3	Marano, Stefano .....	MP4.3	Montoye, Robert .....	TP8a2.5
Kuo, Sen-Maw .....	MP3.5	Li, Jian .....	MA2b.3	Margetis, Adam .....	TA8b3.2	Moon, Todd K. ....	WA8a1.10
Kuo, Wei .....	TA4.1	Li, Jian .....	TA3.3	Marjanovic, Marina .....	MP8a1.3	Moon, Todd K. ....	WA8a2.13
Kwon, Hyuck .....	TA8b2.10	Li, Jian .....	TA8a1.7	Markey, Mia .....	TA3.2	Moonen, Marc .....	TP3a.4
Kwon, Hyuck .....	WA8a1.15	Li, Jian .....	TP4.7	Markham, Steve .....	TP8b2.1	Moraes, Renato .....	MA1b.2
Kwon, Hyuck .....	WA8a1.16	Li, Pai-Chi .....	TP7a.3	Markovic, Dejan .....	MA5a.3	Moran, William .....	TA1.4
Kwon, Young .....	WA3a.2	Li, Qingwei .....	WA8a1.9	Markovic, Dejan .....	TP5.6	Moran, William .....	TA1.5
Kyriacou, Efthymoulos .....	TA3.4	Li, Xiaohua .....	TP8b1.14	Marple, Lawrence .....	MP8a2.9	Morgan, Dennis R. ....	MP8a1.1
Kyriakakis, Chris .....	TA8a3.2	Li, Xin .....	TA7.3	Marques, Antonio G. ....	TP6.4	Morgan, Dennis R. ....	TA8a1.2
Kyriakakis, Chris .....	TA8a3.8	Li, Yijun .....	TA5.2	Martin, Richard K. ....	MP3.3	Mori, Shozo .....	WA4.7
Labate, Demetrio .....	TA7.2	Li, Ying .....	MP8a2.13	Martin, Richard K. ....	TP3a.3	Moriya, T. ....	WA7a.4
Lacatus, Catalin .....	TP2.7	Liang, Hongkang .....	TA8a2.7	Martinez Vallina, Fernando .....	MP8a2.1	Morrell, Darryl .....	MP8a2.6
Lach, John .....	TP5.2	Liang, Yifan .....	MP6.1	Marzetta, Thomas .....	MP6.3	Morrell, Darryl .....	MP8a2.13
Lach, John .....	TP5.8	Liang, Ying-Chang .....	WA8a1.7	Masry, Elias .....	TP8a1.1	Morrell, Darryl .....	TA1.4
Lach, John .....	TP8b2.6	Lim, Wang-Q .....	TA7.2	Mathur, Avinash .....	WA8a1.15	Moses, R. ....	TP7b.4
Lach, John .....	TP8b2.7	Limingoja, Matti .....	TA8b1.3	Mathur, Suhas .....	WA2a.1	Moshnyaga, Vasily .....	TP5.5
Lai, Hung .....	WA8a2.10	Lin, Jian-Hung .....	TA8a2.3	Matsuoka, Hosei .....	TP8b1.5	Mota, João Cesar .....	TP8a1.9
Lai, Tung .....	TA8b3.3	Lin, Yih-Hao .....	MA6b.4	Matta, Vincenzo .....	MP4.3	Mouchtaris, Athanasios .....	TA8a3.1
Lambert, Hendrick .....	WA4.5	Lin, Zongli .....	TA3.8	Matz, Gerald .....	TA6.2	Moura, Emerson .....	WA7a.1
Lan, Hseuh-Ban .....	WA1b.1	Ling, Jonathan .....	MP8a1.1	Matz, Gerald .....	TP8b1.9	Moura, Jose M.F. ....	MP4.2
Landmann, Markus .....	TA6.5	Liu, Bin .....	TP8b1.3	Matz, Gerald .....	TP8b1.11	Moura, Jose M.F. ....	TA1.8
Landmann, Markus .....	TA6.6	Liu, Chunguang .....	TA4.6	Matz, Gerald .....	WA6.2	Mousavinejad, Mahmoud .....	TA8a3.5
Landry, Anthony .....	WA3a.3	Liu, Hui .....	TP8b1.7	Maurer, Johannes .....	WA6.2	Mughal, Bobby .....	TA8b2.3
Lang, Tomas .....	MP5.1	Liu, Hui .....	TP8b1.3	Mazzarese, David .....	TP6.3	Mughal, Mehboob .....	TA8b2.4
Lanne, Maria .....	WA8a2.4	Liu, Jianhua .....	TP4.7	McCain, Dennis .....	MP8b2.18	Mukai, Ryo .....	TP3b.4
Lanningham, Fred .....	WA3b.3	LIU, LIJIE .....	TA7.5	McEachen, John .....	WA8a2.12	Mukherjee, Amitav .....	WA8a1.15

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Muller, Jean-Michel	MP5.6	Olmo, Gabriella	WA1a.4	Popecsu, Dimitrie C.	TP8b1.18	Rikakis, Thanassis	MA3b.4
Muller, Jean-Michel	MP5.4	Olson, Alex G.	MA5a.1	Popovski, Petar	TP8a1.18	Robert-Inacio, Frédérique	MP8b1.6
Murillo, Sergio E.	TA3.4	Orglmeister, Reinhold	TP3b.2	Potter, L. C.	TP7b.4	Robey, Frank C.	MA2b.1
Murphy, Patrick	WA5a.4	Ortega, Antonio	WA1a.2	Powell, Harry	TP8b2.6	Robinson, Michael	WA8a2.11
Muscaredere, Roberto	TA5.5	Ottersten, Björn	MP6.6	Prasad, V. Mahitha	TA4.3	Rodrigues, Paulo Sérgio	WA3a.1
Mutapcic, Almir	WA8a2.9	Ottersten, Björn	TA1.6	Prendergast, Ryan	WA1b.4	Rodrigues, Terence	MP5.3
Myllylä, Markus	TA8b1.3	Ottersten, Björn	WA6.3	Price, Jennifer	WA2a.2	Rodriguez, Paul	TA4.8
Mysore, Gautham	TA8a3.9	Oyman, Ozgur	MP8b2.9	Prihoda, Frank	MP8b2.24	Roemer, Florian	TA6.8
Nakashima, Yusuke	TP8b1.5	Ozdemir, Onur	MP4.5	Priya, Anusha	MA4b.5	Rohrs, Charles	MP8a2.2
Nannarelli, Alberto	MP5.1	Pajic, Miroslav	TA8b1.11	Proakis, John	TP8a1.1	Rosca, Justinian	TP3b.3
Nannarelli, Alberto	TP8a2.3	Pal, Siddharth	TA5.6	Proudlar, Ian K.	MA7b.3	Rostaing, Philippe	TP6.7
Nannarelli, Alberto	TP8a2.8	Palmer, Joseph	WA5a.2	Psaromiligkos, Ioannis	WA8a1.13	Rostaing, Philippe	TP8a1.5
Narayanan, Krishna	MP2.5	Panchapagesan, Sankaran	WA7a.1	Psaromiligkos, Ioannis	WA8a2.11	Rostaing, Philippe	TP8a1.6
Narayanan, Vijaykrishnan	TA5.4	Papandreou-Suppappola, Antonia	MP8a2.13	Psounis, Konstantinos	WA7b.2	Rousset, Cédric	MP8b1.6
Nascimento, Jaclyn	MP1b.1	Papandreou-Suppappola, Antonia	TA1.4	Pun, Ka Shun Carson	TA8b3.4	Rucker, Justin	WA1a.1
Nasiri-Kenari, Masoumeh	MP8b2.7	Parhami, Behrooz	TP8a2.12	Qian, Gang	MA3b.4	Rudoy, Daniel	WA4.6
Nassif, Hani	MP8a2.7	Parhi, Keshab K.	TA8a2.3	Qin, Xiangping	WA2a.4	Rudoy, Melanie	MP8a2.2
Nayeb Nazar, Shahrokh	WA8a1.13	Parhi, Keshab K.	TA8b1.12	Rabiei, Payam	TA8b3.9	Rupp, Markus	MA7b.1
Naylor, Patrick A.	TP1.8	Parhi, Keshab K.	TP8a2.9	Radhakrishnan, Regunathan	MA3b.5	Rupp, Markus	TA8b3.6
Naylor, Patrick A.	TP3a.2	Parhi, Keshab K.	WA8a1.11	Radosavljevic, Predrag	TA8b1.6	Rushdi, Ahmad	TP8b2.8
Nehorai, Arye	MP1a.1	Park, Daeyoung	TA2.3	Radosavljevic, Predrag	TP5.7	Ryo, Bunhin	TA8a2.8
Nehorai, Arye	TA1.3	Park, Hyuk	TA5.7	Raghavendra, Ramya	WA7b.3	Sabarad, Jagdish	TA5.6
Nelson, Brent	WA5a.2	Park, Hyuncheol	TP8a1.16	Rajan, Dinesh	WA1b.1	Sabharwal, Ashutosh	MP8b2.22
Nezami Ranjbar, Mohamad R.	TA8a3.5	Park, Hyuncheol	TP8a1.17	Ramprashad, Sean	TA8a2.4	Sabharwal, Ashutosh	MP8b2.19
Ng, Fan	TP8b1.14	Park, Seung Young	TA2.3	Ramprashad, Sean	TP1.2	Sabharwal, Ashutosh	TA8b1.1
Ngo, Chiu	MP8b2.15	Park, Sungwoo	TP8b1.6	Ranasinghe, Damith	WA5b.2	Sabharwal, Ashutosh	WA5a.4
Ngo, Chiu	TP8a1.12	Parraga, Grace	WA3a.3	Rangaswamy, Muralidhar	MA2b.5	Sadiki, Tayeb	MP3.6
Nguyen, Truong	TA8a2.6	Partanen, Tero	MA5a.2	Rangaswamy, Muralidhar	MP8a2.9	Sadjadpour, Hamid	MA1b.2
Nguyen, Truong	TA8a2.9	Pattichis, Constantinos S.	TA3.4	Rao, Bhaskar	MP8a1.10	Sadjadpour, Hamid	MA6b.5
Nguyen, Truong	TA8a2.11	Pattichis, Marios S.	TA3.4	Rao, Bhaskar	TA1.7	Sadough, Sajad	TP8b1.17
Nguyen, Truong	TA8b3.4	Pattichis, Marios S.	WA3a.2	Rao, Bhaskar	TP6.5	Safavi, Haleh	MP3.8
Nguyen, Truong	WA1b.4	Pattichis, Marios S.	WA3b.2	Rao, Chaitanya	MP8b2.13	Sahai, Anant	MP2.6
Nicolaidis, Andrew	TA3.4	Pattichis, Marios S.	WA3b.2	Rao, Divya	MP8a2.12	Sahmoudi, Mohamed	MP8a2.15
Nieh, Jo-Yen	TA8b3.10	Paulraj, Arogyaswami	MP6.6	Rao, Raghu	TA8b1.1	Said, Amir	TA4.2
Nikolic, Borivoje	TP5.6	Paulraj, Arogyaswami	TA8b3.8	Rao, Sira	TA8a2.1	Said, Amir	MP4.6
Nikolov, Svetoslav	TP7a.2	Pearlman, William A.	WA1a.3	Rasmussen, Morten Sleth	TP8a2.3	Salmi, Jussi	TA6.1
Nilsson, Mikael	MP8b1.2	Peel, Christian	MA6b.1	Ratnarajah, Tharm	MP8b2.4	Salzer, Thomas	MP6.4
Niu, Bo	MP2.3	Penna, Barbara	WA1a.4	Ratnarajah, Tharm	MP8b2.10	San Antonio, Geoffrey	MA2b.4
Niu, Huaning	MP8b2.15	Pepin, Christine	TP1.2	Ratnarajah, Tharm	WA6.7	Sanayei, Shahab	MP8b2.23
Niu, Huaning	TP8a1.12	Pereira, Jose	WA7a.1	Ray, Siddharth	MP8b2.8	Sanchez, Fabricio	WA7a.1
Niu, Ruixin	MP4.5	Perez-Neira, Ana I.	MP2.2	Re, Marco	TA8b1.4	Sangiovanni-Vincentelli, Alberto	TP5.4
Niu, Ruixin	MP8a2.4	Petropulu, Athina P.	MP4.7	Re, Marco	TP8a2.8	Saniie, Jafar	MP8a2.1
Noh, Siwoo	MP8b2.2	Petropulu, Athina P.	MP8b2.24	Ready, Michael	MP8a1.16	Sankaranarayanan, Lalitha	WA2a.1
Nordberg, Jorgen	MP8b1.2	Pezeshki, Ali	TA1.5	Rebeil, Roberto	MA4b.2	Sarikaya, Bahadir	TP2.5
Nosratinia, Aria	MP8b2.16	Pezeshki, Ali	TA1.2	Reyes-Gomez, M.	MA3b.2	Satorius, Edgar	TA8a1.9
Nowak, Robert	TP4.5	Phillips, Braden	WA5b.2	Ribeiro, Alejandro	TP2.8	Satorius, Edgar	TA8b1.5
Nowka, Kevin	TP8a2.5	Phillips, Steven	TA8a1.5	Ribeiro, Cássio	TA6.4	Savazzi, Stefano	TA8b3.1
Nsiala Nzéza, Crépin	WA8a1.2	Phuong, Tri	WA8a2.8	Rice, Michael	WA5a.2	Sawada, Hiroshi	TP3b.2
Nsiala Nzéza, Crépin	WA8a1.3	Piantanida, Pablo	TP8b1.17	Richard, Cédric	TA8a1.6	Sawada, Hiroshi	TP3b.4
Nutter, Brian	MP7.3	Pilotto, Concetta	MP8a1.14	Richards, Brian	MA5a.3	Sawada, Jun	TP8a2.5
Ocloo, Senanu	MP3.7	Pitkänen, Teemu	MA5a.2	Richter, Andreas	TA6.1	Sayed, Ali H.	MP3.2
Ogg, Robert	WA3b.3	Pollak, Ilya	MP7.1	Richter, Andreas	TA6.3	Sayed, Ali H.	TA8a1.9
Oggier, Frederique	TA8b3.7	Poluri, Radha	WA8a1.14	Richter, Andreas	TA6.4	Sayed, Ali H.	TP4.6
Ohzeki, Kazuo	TA8a2.8	Popecsu, Dimitrie C.	TP2.7	Rigling, Brian	TP7b.2	Scarpa, Thais	WA7a.1



NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Scharf, Louis.....	TA1.2	Sira, Sandeep.....	TA1.4	Swannack, Charles.....	TA2.2	Vaccaro, Richard.....	MP8a2.7
Scharf, Louis.....	TP4.3	Siracusa, Michael.....	TP7b.1	Swartzlander, Earl.....	MP5.3	Vaidyanathan, P. P.....	MA2b.6
Schellmann, Malte.....	TA8b2.8	Skadron, Kevin.....	TP5.8	Swartzlander, Earl.....	TA5.1	Vaidyanathan, P. P.....	MP8a1.2
Schellmann, Malte.....	TP8a1.10	Skoglund, Jan.....	TP1.5	Swartzlander, Earl.....	TA5.7	Vaidyanathan, P. P.....	TP8b1.15
Scherb, Ansgar.....	TP8a1.7	Slock, Dirk T. M.....	MP3.6	Swindlehurst, A. Lee.....	MA6b.1	Vaidyanathan, P. P.....	WA8a2.1
Schizas, Ioannis.....	MP8a2.5	Slock, Dirk T. M.....	MP6.4	Swindlehurst, A. Lee.....	TP8b1.16	Vakili, Ali.....	TA2.5
Schmidt, David.....	WA6.5	Slock, Dirk T. M.....	TP4.2	Sworder, Dave.....	TA8a1.1	Valles, Esteban.....	WA8a1.6
Schneider, Christian.....	TA6.6	Slock, Dirk T. M.....	WA6.6	Ta, Chi Hieu.....	TA4.6	van der Schaar, M.....	TA7.1
Schniter, Philip.....	MA7b.2	Smee, John.....	WA8a1.4	Tabesh, Ali.....	TA3.5	Varanasi, Mahesh.....	TP8a1.8
Schniter, Philip.....	MP8a1.12	Smith, Julius.....	TA8a3.9	Tadmor, Gilead.....	MP1a.4	Varshney, Pramod.....	MP4.5
Schniter, Philip.....	TA2.6	Smith, Steven.....	WA4.3	Tafazoli, Shahram.....	WA8a2.14	Varshney, Pramod.....	MP7.8
Schreier, Peter.....	TP4.3	Snoussi, Hichem.....	TA8b2.9	Takala, Jarmo.....	MA5a.2	Varshney, Pramod.....	MP8a2.4
Schubert, Martin.....	MP8a1.11	Soderstrand, Michael.....	TA8a1.5	Takeda, Hiroyuki.....	WA1b.3	Veeravalli, Venugopal.....	MP4.4
Schubert, Martin.....	TA8b2.7	Soliz, Peter.....	WA3a.2	Talwar, Gaurav.....	TA8a2.7	Vehkaperä, Mikko.....	TP8a1.4
Schulte, Michael.....	MP5.8	Soljanin, Emina.....	WA2b.4	Tan, Kenneth.....	TA3.7	Velde, Jana.....	MP8a2.7
Seethaler, Dominik.....	WA6.2	Somekh, Oren.....	MP2.3	Tang, Jun.....	WA8a1.11	Viberg, Mats.....	WA8a2.4
Segall, Andrew.....	MP7.2	Somekh, Oren.....	MP8b2.3	Tang, Taiwen.....	TA2.4	Vieira, Lucimar.....	WA7a.1
Seidel, Peter-Michael.....	TP8a2.13	Sorenson, Logan.....	MP8a2.1	Tarighat, Alireza.....	TP4.6	Villasenor, John.....	WA8a1.6
Sellathurai, Mathini.....	MP8b2.4	Soriaga, Joseph.....	WA8a1.4	Taylor, Fred.....	MP8b2.2	Vincent, Patrick.....	TA8b3.10
Sellathurai, Mathini.....	WA6.7	Soysal, Alkan.....	TP6.6	Teverovskiy, Mikhail.....	TA3.5	Vincent, Patrick.....	WA8a2.12
Sen, Mainak.....	TP5.1	Spagnolini, Umberto.....	MP8b2.3	Thatte, Gautam.....	TP2.2	Viola, Francesco.....	TP7a.1
Sen Gupta, Ananya Sen Gupta.....	MP8a2.16	Spagnolini, Umberto.....	TA8b3.1	Theocharides, Theocharis.....	TA5.4	Viswanathan, Harish.....	TP8b1.19
Sergio, Kim.....	WA7a.1	Spagnolini, Umberto.....	TP2.6	Thilak, Vimal.....	TA8a2.5	Viterbo, Emanuele.....	WA6.4
Sesay, Abu.....	TA8b3.3	Spence, David.....	WA3a.3	Thoma, Reiner S.....	TA2.5	Vo, Dung Vo.....	WA1b.4
Sezgin, Aydin.....	MP6.5	Spencer, Nicholas.....	WA8a2.6	Thoma, Reiner S.....	TA6.6	Voelker, Geoffrey.....	TA8a2.12
Sezgin, Aydin.....	TA8b2.8	Spurbeck, Mark.....	TP4.3	Thomas, Joseph.....	MP8b2.20	Voelz, David.....	TA8a2.5
Sezgin, Aydin.....	TP8a1.10	Srivastava, Anuj.....	TP7b.3	Thyssen, Jes.....	TP1.3	Vorobyov, Sergiy.....	TP4.1
Sezgin, Aydin.....	TP8b1.20	Stan, Mircea.....	TP5.8	Tillo, Tammam.....	WA1a.4	Vouras, Peter.....	WA8a2.15
Shah, Deavavrat.....	WA7b.1	Stanczak, Slawomir.....	MP8a1.11	Tisserand, Arnaud.....	WA5b.1	Vrigneau, Baptiste.....	TP6.7
Shah, Himanshu.....	MP8a2.6	Stauffner, Erik.....	TA8b3.8	Tkachenko, Artem.....	WA5a.3	Vrigneau, Baptiste.....	TP8a1.5
Shanbhag, Naresh.....	TA5.3	Stephene, Alex.....	TP8b1.12	Tom, Andrew.....	TP8b1.10	Vrigneau, Baptiste.....	TP8a1.6
Shaw, Christopher.....	MA6b.1	Stine, James E.....	TP8a2.10	Tomov, Borislav.....	TP7a.2	Vuletic, Dragan.....	TA8b1.11
Sheikh, Farhana.....	TP5.6	Stine, James E.....	TP8a2.13	Tong, Lang.....	MP4.3	Wagner, Kevin.....	MP3.4
Shekhar, Raj.....	TP5.1	Stine, James E.....	WA5b.4	Torres, Andrew.....	TP8b2.1	Wakida, Nicole.....	MP1b.1
Shetty, Niranjana.....	TP1.1	Stoica, Petre.....	MA2b.3	Torrieri, Don.....	WA8a1.15	Walker, William.....	TP7a.1
Shi, Linda.....	MP1b.1	Stoica, Petre.....	TA8a1.7	Torrieri, Don.....	WA8a1.16	Walker III, T. Owens.....	MP8b2.21
Shi, Shuying.....	TA8b2.7	Stoica, Petre.....	TP4.7	Tran, Trac D.....	MP7.5	Wang, Guisong.....	TA7.6
Shi, Yan.....	TA8a1.3	Stolpman, Victor.....	MA5a.5	Tran, Trac D.....	TA7.5	Wang, Jiang.....	TA1.3
Shiang, H-P.....	TA7.1	Strom Bartunek, Josef.....	MP8b1.2	Tran, Trac D.....	WA8a2.15	Wang, Jing.....	WA8a2.16
Shin, Eun-Hee.....	TP6.8	Strother, Stephen.....	MP1a.3	Tran, Tuan.....	TA8b3.3	Wang, Lihong.....	TA3.3
Shroff, Ness.....	WA2a.3	Strukov, Dmitri.....	TA8b1.8	Treichler, John.....	MP8a1.16	Wang, Weihuang.....	TA8b1.10
Shuman, David.....	TP2.1	Stuart, Matthias Bo.....	TP8a2.3	Triki, Mahdi.....	TP4.2	Wang, X.....	MA6b.5
Shynk, John.....	WA8a2.3	Studer, Christoph.....	WA6.1	Tsakalides, Panagiotis.....	TA8a3.1	Wang, Xin.....	TP6.4
Sickman, Frederick.....	TA4.1	Studer, Christoph.....	WA8a1.8	Ts'o, Daniel.....	WA3a.2	Wang, Yunhua.....	TP5.3
Sidiropoulos, Nikos.....	TP2.8	Su, Borching.....	MP8a1.2	Tummala, Murali.....	MP8b2.21	Wang, Zhongfeng.....	WA8a1.9
Simeone, Osvaldo.....	MP2.3	Su, Borching.....	TP8b1.15	Tummala, Murali.....	TA8b3.10	Warner, Edward S.....	MA7b.3
Simeone, Osvaldo.....	MP8b2.3	Subramanian, Anbumani.....	TA7.7	Tummala, Murali.....	WA8a2.12	Weatherwax, John.....	WA4.5
Simeone, Osvaldo.....	MP8b2.11	Subramanian, Vijay.....	TP2.3	Tuqan, Jamal.....	TP8b2.8	Webb, Kevin J.....	MP1a.2
Simeone, Osvaldo.....	TP2.6	Sundaram, Hari.....	MA3b.4	Uf, Tureli.....	MP8a2.10	Weber, Steven.....	MA1b.3
Simon, Marvin.....	TP4.7	Sundaramurthy, Vishwas.....	MP8b2.18	Ulukus, Sennur.....	TP2.5	Wehinger, Joachim.....	MP8b2.7
Sinclair, Michael.....	MA4b.2	Suri, Jasjit.....	WA3a.1	Ulukus, Sennur.....	TP6.6	Wei, Bo.....	TP1.6
Singer, Andrew.....	MP8a2.16	Suri, Jasjit S.....	WA3a.4	Ustunel, Eser.....	WA8a1.16	Wei, Shuangqing.....	WA8a1.5
Siohan, Pierre.....	TP8b1.23	Svantesson, Thomas.....	TP8b1.16	Utschick, Wolfgang.....	WA6.5	Weiss, Stephan.....	MA7b.5
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