

**FORTY-FIRST
ASILOMAR CONFERENCE ON
SIGNALS, SYSTEMS AND
COMPUTERS**

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



November 4 - 7, 2007
Asilomar Hotel and
Conference Grounds

Technical Co-sponsor



**FORTY-FIRST
ASILOMAR CONFERENCE ON
SIGNALS, SYSTEMS & COMPUTERS**

Organized in cooperation with

**NAVAL POSTGRADUATE SCHOOL
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Welcome from the General Chairman

Prof. Victor DeBrunner, Florida State University

It is beyond my belief that this is the 41st Annual Asilomar Conference on Signals, Systems, and Computers. It seems only yesterday I smelled the ocean and the pines here for the first time. This is the place where I made the contacts, both personal and professional, that have come to mean so much to me as I moved from student, to assistant professor, to associate professor, to professor, to department chair. This is the constant, the welcoming professional place, which nurtures great work in signal processing. This is the place where Delores Etter gave me a first opportunity, where Richard Duda talked to me about the great things that could happen if only I would just do them. I could listen to Stan White or Sam Stearns and think about what my future could be. I remember Dick Hamming and his jackets. There are so many personal memories of this place, and so many good people. And now I am a part of this place. What a privilege.

The Sydney Parker Memorial Lecture will be given by Sidney Burrus, the Maxfield and Oshman Emeritus Professor of Electrical Engineering at Rice University. I have the pleasure of knowing Sidney for many years – I think I still have some video of me with his lovely wife Mary Lee doing some aboriginal Australian dance. I can't wait to hear his talk about Connexions.

The conference student paper contest has taken a life of its own, and we welcome these new members to the lifelong group that provides the vitality to this Conference. I find it amazing, and sure sign of the future success of this meeting that there are 92 submissions for this contest. I hope that this Conference will always be open and welcome to graduate students and their work.

The success of this year's meeting is due to the efforts of Dr. Maïté Brandt-Pearce from the University of Virginia. She recruited outstanding TACs who in turn recruited outstanding session chairs, who then developed the outstanding program from each of you! She made my job as general chair enjoyable. I want to thank each of these TACs by name: Robert Heath, Earl E. Swartzlander, Jr., Elza Erkip, Dana Brooks, Geir Øien, Jerry D. Gibson, Roy Yates, Stella Batalama, and Hongbin Li. And I thank all of the session chairs and participants (though your names won't fit!). We had over 580 papers (with about 200 invited ones) to use to create the wonderful program for this year's meeting.

Finally, I want the participants to note that without the local support from people such as Sue Netzorg, Monique Fargues, Mike Matthews, Frank Kragh, and Murali Tummala this meeting would not happen. They provide countless hours of service to arrange the meeting locale and food, the proceedings, the announcements, and review contracts and sign checks – the basic stuff of the life of the Conference.

Enjoy Asilomar!

Victor DeBrunner, Florida State University, June 2007

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F. Biomedical Signal and Image Processing

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G. Multi-rate and Digital Signal Processing

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H. Architecture and Implementation

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Student Paper Contest Chair

Jim Schroeder
Harris Corporation
Melbourne, FL

2007 Asilomar Conference Session Schedule

Sunday Afternoon, November 4

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, November 5

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 Signal Separation
MA2b Genomic Signal Processing
MA3b Analysis of Large Scale Communications Systems
MA4b Challenges and Opportunities in MIMO Communications
MA5b Integrated Algorithm and Architecture Implementation
MA6b Adhoc Network Capacity
MA7b Genomic Data Processing

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

Monday Afternoon, November 5

1:30 - 5:10 PM AFTERNOON SESSIONS

MP1 MIMO Radars
MP2a Registration in Biomedical Imaging
MP2b Image and Video Coding I
MP3 Cross-Layer Optimization in Wireless Resource Allocation
MP4 Multi-User MIMO Communications I
MP5 Computer Arithmetic
MP6 System Theory for Sensor Networks
MP7 Adaptive Signal Processing Using Higher-Order Arrays
MP8a1 Cooperative Communications (Poster)
MP8a2 Precoding for MIMO (Poster)
MP8a3 Image and Video Coding and Processing (Poster)
MP8a4 Topics in Speech, Image, and Signal Processing and Coding (Poster)
MP8b1 Statistical Signal Processing (Poster)
MP8b2 Biomedical and Genomic Signal Processing (Poster)

Monday Evening, November 5

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.

2007 Asilomar Conference Session Schedule (continued)

Tuesday Morning, November 6

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 Non-Gaussian and Nonlinear Methods in Statistical Signal Processing
TA2 Spatio-Temporal Processing in Biomedical Imaging
TA3 Recent Advances in Cognitive Radio
TA4 Cooperative Diversity
TA5 Signal Processing for Structural Health Monitoring
TA6 Network Information Theory
TA7 Image and Video Coding II
TA8a1 Architectures (Poster)
TA8a2 Modulation, Detection, and Error Control Coding (Poster)
TA8a3 Interference Handling in Wireless Communications (Poster)
TA8b1 Multirate and Digital Signal Processing (Poster)
TA8b2 Performance Bounds (Poster)
TA8b3 Selected Topics in Wireless Communications (Poster)

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

Tuesday Afternoon, November 6

1:30 - 5:10 PM AFTERNOON SESSIONS

TP1 Underwater Acoustical Array Signal Processing
TP2 Cellular Image Analysis
TP3 Ultra Wideband Communications
TP4a Estimation and Detection
TP4b Array Signal Processing
TP5 Low-Power Methods
TP6a Network Pricing
TP6b Relay Channels
TP7a Speech Coding, Processing and Transport
TP7b Plenoptic Signal Processing
TP8a1 Advances in MIMO Communications (Poster)
TP8a2 MIMO Communication over Frequency Selective Channels (Poster)
TP8a3 Adaptive Systems and Processing (Poster)
TP8b1 Multi-user MIMO Communications II (Poster)
TP8b2 OFDM and Multi-Carrier Communications (Poster)
TP8b3 Estimations, Synchronization, and Equalization (Poster)

Tuesday Evening, November 6

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

2007 Asilomar Conference Session Schedule

(continued)

Wednesday Morning, November 7

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 Source Localization and Imaging
WA1b Adaptive Radar Signal Processing
WA2a New Optical Techniques for Cancer Detection and Therapy
WA2b Signal Processing Techniques in Advanced MR Imaging
WA3a Wireless Optical Communications
WA3b Iterative Receiver Processing on Communication Systems
WA4 Feedback in MIMO Systems
WA5a Programmable and Reconfigurable Architectures
WA5b SOC Architectures
WA6a Radar Signal Processing
WA6b Signal Processing in Cognitive Radio Networks
WA7a Speech and Audio Coding
WA7b Wavelet and Filter Bank Methods for Image and Video Processing
WA8a1 Wireless Networks (Poster)
WA8a2 Sensor Networks (Poster)
WA8a3 Radar and 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

Merril Hall - Sunday, November 4, 2007

Judging starts at 6:30PM

(Listed in paper number order)

“Knowledge-Aided Space-Time Adaptive Processing”

Xumin Zhu, Jian Li, Petre Stoica, and Joseph R. Guerci

“A Deterministic Method for Haplotype Inference”

Kuo-ching Liang and Xiadong Wang, Columbia University

“Rate Estimation Using Forward Adaptive Quantization: H.264 Fast Intra Mode Selection at High Data Rates”

Koohyar Minoo and Truong Q. Nguyen, University of California, San Diego

“Matrix Decomposition Architecture for MIMO Systems: Design and Implementation Trade-Offs”

Christoph Studer, Patrick Blösch, Peter Friedli, and Andreas Burg, ETH Zurich

“Multicarrier Broadcast and Unicast Hybrid Systems”

Hongxiang Li, Bin Liu, and Hui Liu, University of Washington

“Instruction Set Extensions for AES Processing on a Multithreaded Software Defined Radio Platform”

Christipher Jenkins, Suman Mamidi, Michael Schulte, University of Wisconsin-Madison, and John Glossmer, Sandbridge Technologies

“Real-Time MIMO Discrete Multitone Transceiver Testbed”

Alex Olson, Aditya Chopra, Yousof Mortazavi, Ian Wong, and Brian Evans, University of Texas at Austin

2007 Asilomar Conference Session Schedule

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

Monday, November 5

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

1. Welcome from the General Chairperson:

Prof. Victor E. DeBrunner
Florida State University

2. Session MA1a Distinguished Lecture for the 2007
Asilomar Conference

Prof. C. Sidney Burrus
Rice University

Connexions: A New Technology for Education

Abstract

We educators and researchers in information technology are quick to use the latest theories and techniques in our research but slow to use them in our teaching. Over the past ten or twenty years, the digital computer, internet connectivity, high capacity disc storage, and graphics display along with the powerful software systems for word processing, searching, hypertext linking have begun to challenge the traditional book. This talk describes a new system called Connexions (<http://cnx.org/>) which uses XML encoding of content with an open access copyright system by Creative Commons to create a radically new information publication system. Information or “content” is organized in modules which are written in an extendable markup language, XML, and put in a publicly available repository. The Creative Commons copyright license allows free access, authoring, revision, printing, and even commercial use. The Connexions repository now has over 4000 modules, 220 collections called courses or books, and users from 157 countries. This system (or something

like it) is going to completely change the way we write, read, teach, and learn.

Biography

C. Sidney Burrus received his PhD from Stanford University in 1965 and has been on the faculty at Rice University since then. He was a visiting professor at the University of Erlangen in Germany in 1975 and again in 1980 and was a visiting professor at MIT in 1990. He received a Humboldt Award, a Fulbright Fellowship, and various research awards from the IEEE over the years. He is a Fellow of the IEEE. He received teaching awards from Rice in 1975 etc. was department chair for ten years, and was the Dean of Engineering at Rice for seven years. Currently, he is the Maxfield and Oshman Emeritus Professor of Electrical Engineering. He has published 5 books and over 200 research articles, mostly in digital signal processing, and has been involved with the use of technology for education which resulted in the Connexions Project which started in 1999.

**Program of 2007
Asilomar Conference
on
Signals, Systems, and Computers**

**Technical Program Chairman
Maite Brandt-Pearce
University of Virginia**

Session MA1b Signal Separation

- MA1b-1 Non-cancellation Multistage Kurtosis Maximization with Prewhitening for Blind Source Separation 10:15 AM
Xiang Chen, Tsinghua University; Chong-Yung Chi, Chon-Wa Wong, National Tsing Hua University; Shidong Zhou, Yan Yao, Tsinghua University
- MA1b-2 Separating composite signals in multi-probe dynamic biomedical imaging 10:40 AM
Li Chen, Yue Wang, Virginia Tech; Chong-Yung Chi, National Tsing Hua University; Zsolt Szabo, Johns Hopkins University; Peter L. Choyke, National Institutes of Health
- MA1b-3 Blind Separation and Equalization Using Novel Hill-Climbing Optimization 11:05 AM
Dongxin Xu, Infoture Inc.; Hsiao-Chun Wu, Louisiana State University
- MA1b-4 An Improved L1-Norm Algorithm for Underdetermined Blind Source Separation Using Sparse Representation 11:30 AM
Shuzhong Bai, Ju Liu, Guoxia Sun, Shandong University
- MA1b-5 Variable Tap Length Convolutional Blind Source Separation 11:55 AM
Clive Cheong Took, Saeid Sanei, Cardiff University

Session MA2b Genomic Signal Processing

Chair: *P.P. Vaidyanathan & Byung-Jun Yoon*

- MA2b-1 Robust Intervention in Probabilistic Boolean Networks 10:15 AM
Ranadip Pal, Aniruddha Datta, Edward Dougherty, Texas A&M University
- MA2b-2 Probabilistic Methods for Improving Efficiency of RNA Secondary Structure Prediction Across Multiple Sequences 10:40 AM
Gaurav Sharma, A. Ozgun HarmanCI, David Mathews, University of Rochester
- MA2b-3 Framework for Identification of Common Variations in Multiple Samples of Human Genome Associated with Behavioral Abnormalities Using Signal Processing Technique and Statistics 11:05 AM
Abdullah Alqallaf, Ahmed Tewfik, University of Minnesota
- MA2b-4 Fast Annotation of Noncoding RNA Families with Pseudoknots 11:30 AM
Byung-Jun Yoon, P. P. Vaidyanathan, California Institute of Technology
- MA2b-5 A deterministic sequential Monte Carlo method for haplotype inference 11:55 AM
Kuo-ching Liang, Xiaodong Wang, Columbia University

Session MA3b Analysis of Large Scale Communication Systems

Chair: *Ralf R. Müller*

- MA3b-1 Asymptotic Capacity of Orthogonal Multi-Level Amplify-and-Forward Relay Networks 10:15 AM
Shu-Ping Yeh, Stanford University; Olivier Leveque, Ecole Polytechnique Federale de Lausanne; John Cioffi, Stanford University
- MA3b-2 Asymptotic Spectral Efficiency Analysis of the DS/CDMA Amplify and Forward Relay Channel 10:40 AM
David Gregoratti, Xavier Mestre, CTTC
- MA3b-3 On the capacity of asynchronous CDMA systems 11:05 AM
Laura Cottatellucci, Institute Eurecom; Mérouane Debbah, Supelec; Ralf Müller, Norwegian University of Science and Technology (NTNU)
- MA3b-4 Free deconvolution for MIMO channel capacity estimation 11:30 AM
Øyvind Ryan, University of Oslo; Mérouane Debbah, Supelec
- MA3b-5 Second order statistics of the eigenvalue spectrum of truncated large unitary matrices 11:55 AM
Aris Moustakas, University of Athens; Mérouane Debbah, Supelec

Session MA4b Challenges and Opportunities in MIMO Communication

Chair: *Angel Lozano*

- MA4b-1 Network MIMO: Overcoming Intercell Interference in Indoor Wireless Systems 10:15 AM
Gerard Foschini, Howard Huang, Angel Lozano, Laurence Mailaender, Reinaldo Valenzuela, Sivarama Valenzuela, Bell Labs (Alcatel-Lucent)
- MA4b-2 Decision Feedback Based Transceiver Optimization for MIMO Inter-Symbol Interference Channels 10:40 AM
Yi Jiang, NextWave Broadband; Mahesh Varanasi, University of Colorado, Boulder; Daniel Palomar, Hong Kong University of Science and Technology
- MA4b-3 Capacity Scaling of Multiuser MIMO with Limited Feedback in a Multicell Environment 11:05 AM
Lars Thiele, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut; Malte Schellmann, Technical University of Berlin; Wolfgang Zirwas, Nokia Siemens Networks GmbH & Co. KG; Volker Jungnickel, Technical University of Berlin
- MA4b-4 Partial CSI designs for distributed space-time codes in wireless relay networks 11:30 AM
Mari Kobayashi, Supérieure d'Electricité (Supélec); Xavier Mestre, Centre Tecnològic de Telecomunicacions de Catalunya

MA4b-5 MIMO Precoding and Power Control based on 1-bit Feedback 11:55 AM
Filippo Merli, University of Modena and Reggio Emilia; Xiaodong Wang, Columbia University; Giorgio Vitetta, University of Modena and Reggio Emilia

Session MA5b Integrated Algorithm and Architecture Implementation

Chair: *Brian Evans*

MA5b-1 Jointly Optimized Software Radios for Low Power 4G Cellular Systems 10:15 AM
Brian Kelley, Freescale Wireless Messaging Advanced Technology

MA5b-2 Digital Video Broadcast Transceiver Deployment to Xilinx FPGAs using LabVIEW 10:40 AM
John Ammerman, Newton Petersen, Hugo A. Andrade, National Instruments Corporation

MA5b-3 Model-based mapping for nonrigid image registration 11:05 AM
Yashwanth Hemaraj, University of Maryland; Mainak Sen, Cisco Systems, Inc.; William Plishker, University of Maryland; Raj Shekhar, University of Maryland Medicine; Shuvra Bhattacharyya, University of Maryland

MA5b-4 Real-Time MIMO Discrete Multitone Transceiver Testbed 11:30 AM
Alex Olson, Aditya Chopra, Yousof Mortazavi, Ian Wong, Brian Evans, University of Texas at Austin

Session MA6b Adhoc Network Capacity

Chair: *Jeff Andrews & Martin Haenggi*

MA6b-1 Degrees of Freedom for Wireless Ad-hoc Networks 10:15 AM
Syed Jafar, University of California, Irvine

MA6b-2 Space-time trade-offs in MIMO communication 10:40 AM
Massimo Franceschetti, University of California, San Diego; Anna Martini, Andrea Massa, University of Trento

MA6b-3 Dynamic Connectivity and Information Propagation in Multihop ALOHA Networks 11:05 AM
Radha Krishna Ganti, Martin Haenggi, University of Notre Dame

MA6b-4 Energy-Limited vs. Interference-Limited Ad Hoc Network Capacity 11:30 AM
Nihar Jindal, University of Minnesota; Steven Weber, Drexel University; Jeffrey Andrews, University of Texas at Austin

MA6b-5 Optimal Throughput-Delay Tradeoff in Mammalian Ad Hoc Networks 11:55 AM
Rajiv Agarwal, John Cioffi, Stanford University

Session MA7b Genomic Data Processing

Chair: *Xiadong Wang*

MA7b-1 Combining Literature-Based Mammalian Protein Interaction and Signaling Networks, Graph Theory, and Multivariate Experiments to Predict Novel Components and Pathways 10:15 AM
Avi Ma'ayan, Mount Sinai School of Medicine

MA7b-2 S-system model estimation using stochastic approximation Monte Carlo 10:40 AM
Faming Liang, Jianhua Huang, Texas A&M University

MA7b-3 Processing single-cell single-molecule genomic information: New methods for new data 11:05 AM
Michael Samoilov, Adam Arkin, University of California, Berkeley / Lawrence Berkeley National Laboratory

MA7b-4 Bits and Bases: An analysis of Genetic Information Paradigms 11:30 AM
Elebeoba May, Sandia National Laboratories

MA7b-5 Signal processing for real-time DNA microarrays 11:55 AM
Haris Vikalo, Babak Hassibi, California Institute of Technology; Arjang Hassibi, University of Texas at Austin

Session MP1 MIMO Radars

Chair: *Jian Li & Petre Stoica*

MP1-1 Parameter Estimation and Number Detection of MIMO Radar Targets 1:30 PM
Luzhou Xu, University of Florida; Petre Stoica, Uppsala University; Jian Li, University of Florida

MP1-2 Signal Covariance Matrix Optimization for Transmit Beamforming in MIMO Radars 1:55 PM
Tuomas Aittomäki, Visa Koivunen, Helsinki University of Technology

MP1-3 Space reversal methods for MIMO radars 2:20 PM
Joseph Tabrikian, Ben-Gurion University of the Negev

MP1-4 On Data-Adaptive Waveform Design for MIMO Radar 2:45 PM
Benjamin Friedlander, University of California, Santa Cruz

BREAK 3:10 PM

MP1-5 A Design Method for MIMO Radar Frequency Hopping Codes 3:30 PM
Chun-Yang Chen, P. P. Vaidyanathan, California Institute of Technology

MP1-6 Coverage in radar networks 3:55 PM
Pier Francesco Sammartino, Christopher Baker, University College London

MP1-7 Slow-Time MIMO STAP with Improved Power Efficiency 4:20 PM
Vito Mecca, Jeffrey Krolik, Duke University

MP1-8 GMTI MIMO Radar: System And Waveform Optimization 4:45 PM
Daniel Bliss, Keith Forsythe, MIT Lincoln Laboratory

Session MP2a Registration in Biomedical Imaging

Chair: *Gustavo Rohde*

MP2a-1 Computational Functional Anatomy 1:30 PM
Anqi Qiu, Michael Miller, Johns Hopkins University

MP2a-2 Multiframe Registration of Aliased X-Ray Images 1:55 PM
Dirk Robinson, Ricoh Innovations; Sina Farsiu, Duke University; Peyman Milanfar, University of California, Santa Cruz

MP2a-3 Sampling and Reconstruction for Biomedical Image Registration 2:20 PM
Gustavo Rohde, Carnegie Mellon University; Dennis Healy Jr., University of Maryland; Akram Aldroubi, Vanderbilt University

MP2a-4 Locating Brain Tumor from MR Imagery Using Symmetry 2:45 PM
Nilanjan Ray, Baidya Saha, Matthew Brown, University of Alberta

Session MP2b Image and Video Coding I

MP2b-1 Inter-layer motion vector interpolation for low-complexity and very low bitrate scalable video coding 3:30 PM
Min Li, University of California, San Diego; Preethi Chandrasekhar, Gokce Dane, Qualcomm Inc; Truong Nguyen, University of California, San Diego

MP2b-2 Rate Estimation Using Forward Adaptive Quantization: H.264 Fast Intra Mode Selection at High Data Rates 3:55 PM
Koohyar Mino, Truong Nguyen, University of California, San Diego

MP2b-3 An Adaptive Block Size Phase Correlation Motion Estimation Using Smart Multireference Frames Selection in Frequency Domain 4:20 PM
Yasser Ismail, Mohamed Elgamel, Magdy Bayoumi, The Center for Advanced Computer Studies (CACs)

MP2b-4 Multiple Description Image Coding Based on Multi-Stage Vector Quantization 4:45 PM
Tomas Andersson, Mikael Skoglund, Royal Institute of Technology (KTH)

Session MP3 Cross-Layer Optimization in Wireless Resource Allocation

Chair: *Randall Berry*

MP3-1 On estimation and resource allocation in wireless networks 1:30 PM
Tara Javidi, University of California, San Diego

MP3-2 Spectrum Allocation, Power Control, Routing, and Congestion Control for Wireless Networks with Duplexing Constraints 1:55 PM
Yufang Xi, Edmund Yeh, Yale University

MP3-3 Channel Aware Distributed Scheduling for Ad-Hoc Communications with Capture 2:20 PM
Weiyang Ge, Junshan Zhang, Arizona State University; Jeffrey E. Wieselthier, Naval Research Laboratory

MP3-4 Joint Scheduling and Resource Allocation in OFDM Systems: Algorithms and Performance for the Uplink 2:45 PM
Jianwei Huang, Chinese University of Hong Kong; Vijay Subramanian, Hamilton Institute; Randall Berry, Northwestern University; Rajeev Agrawal, Motorola
BREAK 3:10 PM

MP3-5 Utility Maximization in Multiple Access Channels 3:30 PM
Ali ParandehGheibi, Asuman Ozdaglar, Muriel Medard, Atilla Eryilmaz, Massachusetts Institute of Technology

MP3-6 Cross-Layer Optimized Iterative Receivers for OFDM ARQ with Carrier Frequency Offset 3:55 PM
Thomas Ksetseoglou, California State Polytechnic University, Pomona

MP3-7 Fairness vs. Efficiency: Comparison of Game Theoretic Criteria for OFDMA Scheduling 4:20 PM
Andreas Ibing, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut; Holger Boche, Technical University of Berlin / Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut; Fraunhofer German-Sino Lab for Mobile Communications

MP3-8 Persistent Resource Allocation in OFDMA Networks for Real-Time and Non-Real Time Traffic 4:45 PM
Vinay Majjigi, Rajiv Agarwal, John Cioffi, Stanford University

Session MP4 Multi-User MIMO Communications I

Chair: *Nihar Jindal*

MP4-1 On the Required Accuracy of Transmitter Channel State Information in Multiple Antenna Broadcast Channels 1:30 PM
Shlomo Shamai (Shitz), Technion; Giuseppe Caire, University of Southern California; Nihar Jindal, University of Minnesota

MP4-2 Uplink SDMA with Limited Feedback 1:55 PM
Kaibin Huang, Jeffrey Andrews, Robert Heath, University of Texas at Austin

MP4-3 Rank-Independent Codebook Design from a Quaternary Alphabet 2:20 PM
Bishwarup Mondal, Motorola; Timothy Thomas, Motorola Labs; Mark Harrison

MP4-4 Antenna Combining and Codebook Design 2:45 PM
for MIMO Broadcast Channels with Limited
Feedback
*Matteo Trivellato, University of Padova; Howard Huang,
Federico Boccardi, Alcatel-Lucent*
BREAK 3:10 PM

MP4-5 On optimization of multiuser systems using 3:30 PM
interference calculus
*Gerhard Wunder, Thomas Michel, Heinrich-Hertz-Institut
Berlin*

MP4-6 Jointly Optimized Downlink Multiuser 3:55 PM
MIMO OFDM Precoding System
*Kyeong Jin Kim, Nokia Inc.; Jianzhong Zhang, Samsung
Telecom America*

MP4-7 Efficient MSE Balancing for the Multi-User 4:20 PM
MIMO Downlink
*Raphael Hunger, Michael Joham, Wolfgang Utschick,
Technische Universitaet Muenchen*

MP4-8 Robust MAC MIMO Transceiver Design with 4:45 PM
Partial CSIT and CSIR
*Xi Zhang, Royal Institute of Technology (KTH);
Daniel Palomar, Hong Kong University of Science
and Technology; Björn Ottersten, Royal Institute of
Technology (KTH)*

Session MP5 Computer Arithmetic

Chair: *Milos Ercegovic*

MP5-1 Floating-Point Fused Multiply-Add 1:30 PM
Architectures
*Eric Quinnell, AMD; Earl Swartzlander, University of
Texas at Austin; Carl Lemonds, AMD*

MP5-2 On Digit-by-Digit Methods for Computing 1:55 PM
Certain Functions
Milos D. Ercegovic, University of California, Los Angeles

MP5-3 Computing Integer Powers in Floating-Point 2:20 PM
Arithmetic
*Peter Kornerup, Southern Danish University; Vincent
Lefevre, Jean-Michel Muller, ENS Lyon*

MP5-4 Performance Impact when Using 2:45 PM
Denormalized Numbers in Basic Floating-point
Operations
Alex Tenca, Kyung-Nam Han, David Tran, Synopsys, Inc.
BREAK 3:10 PM

MP5-5 A Binary Integer Decimal-based Multiplier 3:30 PM
for Decimal Floating Point Arithmetic
*Charles Tsen, University of Wisconsin; Sonya Gonzales
Navarro, University of Malaga; Michael Schulte,
University of Wisconsin*

MP5-6 A Residue Approach of the Finite Fields 3:55 PM
Arithmetics
Jean-Claude Bajard, University of Montpellier

MP5-7 Retiming the ARM VFP-11 Divide and 4:20 PM
Square Root Architecture
Neil Burgess, Icera Inc.

MP5-8 Using Half-Adders to Speed Up 4:45 PM
Floating-Point Critical Paths
David Lutz, Chris N. Hinds, ARM Inc.

Session MP6 System Theory for Sensor Networks

Chair: *Venu Veerevalli*

MP6-1 Information-Driven Sensor Planning with 1:30 PM
Local Topology Knowledge
*John W. Fisher III, Jason L. Williams, Massachusetts
Institute of Technology*

MP6-2 Sampling and Reconstruction of Polyhedra 1:55 PM
Observed in Noise
Mingbo Zhao, Sergio Servetto, Cornell University

MP6-3 Separation Theorems and Partial Orderings 2:20 PM
for Sensor Network Problems
Michael Gastpar, University of California, Berkeley

MP6-4 The Nose of a Bloodhound: Target Chasing 2:45 PM
Aided by a Static Sensor Network
Oliver Kosut, Lang Tong, Cornell University

BREAK 3:10 PM

MP6-5 Decentralized Detection with Correlated 3:30 PM
Observations
*Jayakrishnan Unnikrishnan, Venugopal Veeravalli,
University of Illinois at Urbana-Champaign*

MP6-6 Consensus-Based Distributed Recursive 3:55 PM
Least-Squares Estimation in Ad Hoc Wireless
Sensor Networks
*Ioannis Schizas, Gonzalo Mateos, Georgios Giannakis,
University of Minnesota*

MP6-7 Diffuse Field Estimation with Asynchronous 4:20 PM
Sensor Networks
*Sriram Narayanan, Douglas L. Jones, University of
Illinois at Urbana-Champaign*

MP6-8 Recent Progress on a 60-GHz Imaging Sensor 4:45 PM
Network
*Munkyo Seo, Bharath Ananthasubramaniam, Upamanyu
Madhow, Mark J. W. Rodwell, University of California,
Santa Barbara*

Session MP7 Adaptive Signal Processing Using Higher-Order Arrays

Chair: *Martin Haardt*

MP7-1 Block Component Model Based Blind 1:30 PM
DS-CDMA Receivers
*Dimitri Nion, Lieven De Lathauwer, ETIS CNRS UMR
8051*

- MP7-2 Canonical Decomposition of scalp EEG in epileptic seizure localisation 1:55 PM
Maarten De Vos, Katholieke Universiteit Leuven; Lieven De Lathauwer, CNRS-ENSEA-ETIS; Sabine Van Huffel, Wim Van Paesschen, Katholieke Universiteit Leuven
- MP7-3 Enhanced Model Order Estimation Using Higher-Order Arrays 2:20 PM
Joao Paulo C. L. da Costa, Martin Haardt, Florian Roemer, Giovanni Del Galdo, Ilmenau University of Technology
- MP7-4 Joint Diagonalization of Third Order Complex Symmetric Tensors and Application to Blind Separation of Non-Circular Sources 2:45 PM
Eric Moreau, LSEET, University of Toulon
- BREAK 3:10 PM
- MP7-5 Set-Theoretic Reduced-Rank Adaptive Filtering by Adaptive Projected Subgradient Method 3:30 PM
Masahiro Yukawa, RIKEN; Rodrigo de Lamare, University of York; Isao Yamada, Tokyo Institute of Technology
- MP7-6 Efficient Algorithms for Computing the Capon and APES Filters 3:55 PM
Erik Gudmundson, Uppsala University; Andreas Jakobsson, Karlstad University
- MP7-7 Fast RLS algorithm using dichotomous coordinate descent iterations 4:20 PM
Yuriy V. Zakharov, University of York; George White, QinetiQ; Jie Liu, University of York
- MP7-8 Long angle-of-arrival estimation in the presence of specular and diffuse multipath 4:45 PM
Simon Haykin, McMaster University

Session MP8a1 Cooperative Communications

- MP8a1-1 Auction-Theoretic Partner Selection in Cooperative Diversity Wireless Networks
Amitav Mukherjee, Hyuck Kwon, Wichita State University
- MP8a1-2 Multi-Cell Cooperative Transmission
Younsun Kim, Hui Liu, University of Washington
- MP8a1-3 Joint Beamforming and Power Adaptation for MIMO Broadcasting Relays with QoS Constraints
Rui Zhang, Chin Choy Chai, Ying Chang Liang, Institute for Infocomm Research
- MP8a1-4 Dynamic Resource Allocation For The Broadband Relay Channel
Kagan Bakanoglu, Deniz Gunduz, Elza Erkip, Polytechnic University

Session MP8a2 Precoding for MIMO

- MP8a2-1 Pre-Coding for Rapidly Time Varying MIMO Communication Channels
Meriam Rezk, Benjamin Friedlander, University of California, Santa Cruz

- MP8a2-2 Space-Time Spreading MIMO System Using Canonical Precoding Tensor Model
André de Almeida, Gérard Favier, I3S Laboratory; João Cesar Mota, Wireless Telecom Research Group (GTEL)
- MP8a2-3 Precoder Design for V-BLAST Schemes Based on Pre-Whitening Detector
Lingyang Song, Are Hjørungnes, Pradeepa Yahampath, Manav R. Bhatnagar, University of Oslo
- MP8a2-4 Precoding of Differential OSTBC in Arbitrarily Correlated MIMO Channels
Manav R. Bhatnagar, Are Hjørungnes, Lingyang Song, University of Oslo

Session MP8a3 Image and Video Coding and Processing

- MP8a3-1 Automatic region of interest determination in music videos
Wonjun Kim, Changick Kim, Information and Communications University
- MP8a3-2 Ground Color Customization of Soccer Videos
Ilkoo Ahn, Changick Kim, Information and Communications University
- MP8a3-3 Adaptive thresholding for motion detection in a CMOS image sensor
Arnaud Verdant, CEA; Antoine Dupret, Hervé Mathias, Université Paris Sud; Patrick Villard, CEA
- MP8a3-4 Statistical modeling and ML parameter estimation of complex SAR imagery
Michael Davis, Patrick Bidigare, General Dynamics - Advanced Information Systems
- MP8a3-5 Improving Robustness of Image Quality Measurement with Degradation Classification and Machine Learning
Tiago H. Falk, Yingchun Guo, Wai-Yip (Geoffrey) Chan, Queen's University
- MP8a3-6 Fast implementation of a l_1 - l_1 penalized sparse representations algorithm: Applications in image coding.
Jean Jacques Fuchs, IRISA / Univ. de Rennes 1; Christine Guillemot, IRISA / INRIA
- MP8a3-7 Contourlet based Image Denoising Using Improved Thresholding Neural Network
Sayed Mohammad Ebrahim Sahraeian, Farrokh Marvasti, Sharif University of Technology
- MP8a3-8 Denoising noisy images with noise
Hao Chen, Pramod Varshney, Syracuse University; James Michels, JHM Technologies LLC
- MP8a3-9 A Comparison of Some State of the Art Image Denoising Methods
Hae Jong Seo, Priyam Chatterjee, Hiroyuki Takeda, Peyman Milanfar, University of California, Santa Cruz

Session MP8a4 Topics in Speech, Image, and Signal Processing and Coding

- MP8a4-1 Perceptual Pre-weighting and Post-inverse weighting for Speech Coding
Niranjan Shetty, Jerry Gibson, University of California, Santa Barbara
- MP8a4-2 Epsilon entropy of piecewise polynomial functions and tree partitioning algorithm
Arian Maleki, Stanford University
- MP8a4-3 Flexible Quantization of Audio and Speech Based on the Autoregressive Model
Alexey Ozerov, W. Bastiaan Kleijn, Royal Institute of Technology (KTH)
- MP8a4-4 Wiener filter for isotropic signal fields
Raman Arora, University of Wisconsin-Madison; Harish Parthasarathy, Netaji Subhas Institute of Technology
- MP8a4-5 Using Phoneme Segmentation in Conjunction with Missing Feature Approaches for Noise Robust Speech Recognition
Arash Mohammadi, Farshad Almasganj, Aboozar Taherkhani, Farnoosh Naderkhani, Amirkabir University of Technology
- MP8a4-6 Unaligned training for voice conversion based on a local-nonlinear principal component analysis approach
Behrooz Makki, Seyed Ali Seyedsalehi, Mona Noori Hosseini, Amirkabir University of Technology; Nasser Sadati, Sharif University of Technology
- MP8a4-7 Rate-adaptive turbo-syndrome scheme for Slepian-Wolf Coding
Aline Roumy, Khaled Lajnef, Christine Guillemot, IRISA-INRIA
- MP8a4-8 Biorthogonal Matrix Dirty Paper Code for Information Hiding
Xin Xu, Martin Tomlinson, Marcel Ambroze, Mohammed Ahmed, University of Plymouth
- MP8a4-9 The Cyclic Matching Pursuit and Its Application to Audio Modeling and Coding
Mads Christensen, Søren Holdt Jensen, Aalborg University
- MP8a4-10 Constrained Monotone Regression and Outlier Detection for Searching Occlusion Objects
Dong Sik Kim, Hankuk University of Foreign Studies; Kiryung Lee, University of Illinois at Urbana-Champaign
- MP8a4-11 Optimal Bit Layering for Scalable Audio Compression Using Objective Audio Quality Metrics
Srivatsan Kandadaï, Charles Creusere, New Mexico State University
- MP8a4-12 Feature Frame Watermarking
Hedley Morris, Imad Muhi El-Ddin, Claremont Graduate University

- MP8a4-13 View Morphing using Linear Prediction of Sub-Space Features
Abhijit Mahalanobis, Lockheed Martin, MFC; Philip Berkowitz, Mubarak Shah, University of Central Florida; Richard Sims, U.S. Army

Session MP8b1 Statistical Signal Processing

- MP8b1-1 Low-Complexity Carrier Frequency Offset Estimation For Frequency-Selective Channels
Jeffrey D. Klein, ATK Mission Research
- MP8b1-2 Correlation coefficients for complex random vectors
Peter J. Schreier, University of Newcastle
- MP8b1-3 Stochastic Incremental Gradient Descent for Estimation in Sensor Networks
S.Ram Srinivasan, Angelia Nedich, Venugopal Veeravalli, University of Illinois at Urbana-Champaign
- MP8b1-4 Estimating the mode of a phase distribution
Barry Quinn, Macquarie University
- MP8b1-5 An Efficient Dimensional Reduction of the Blocking Matrix for the Multistage Wiener Filter
Junichiro Suzuki, Yoshikazu Shoji, Masahiro Tanabe, Toshiba Corporation; Hiroyoshi Yamada, Yoshio Yamaguchi, Niigata University
- MP8b1-6 Signal estimation based on mutual information maximization
Gustavo Rohde, Carnegie Mellon University; Jonathan Nichols, Frank Bucholtz, Joseph V. Michalowicz, Naval Research Laboratory
- MP8b1-7 Moment-Based SNR Estimation for SIMO Wireless Communication Systems Using Arbitrary QAM
Alex Stéphenne, Ericsson Canada Inc.; Faouzi Bellili, Sofène Affes, INRS-ÉMT
- MP8b1-8 A Distributed Approach to Beamforming in a Wireless Sensor Network
Nikolaos Papalexidis, Owens Walker, Charalampos Gkionis, Murali Tummala, John McEachen, Naval Postgraduate School
- MP8b1-9 Model Distribution For Distributed Kalman Filters: A Graph Theoretic Approach
Usman Khan, José M. F. Moura, Carnegie Mellon University
- MP8b1-10 Blind MIMO channel identification using cumulant tensor decomposition
Carlos Estêvão Fernandes, Gérard Favier, University of Nice Sophia Antipolis; João Cesar Mota, Federal University of Ceará
- MP8b1-11 Further Results on Performance Analysis for Compressive Sensing Using Expander Graphs
Weiyu Xu, Babak Hassibi, California Institute of Technology
- MP8b1-12 Blind Source Separation with a Time-Varying Mixing Matrix
Marcus DeYoung, Brian Evans, University of Texas at Austin

- MP8b1-13 Fundamental Frequency Estimation using the Shift-Invariance Property
Mads Christensen, Aalborg University; Andreas Jakobsson, Karlstad University; Søren Holdt Jensen, Aalborg University
- MP8b1-14 Efficient estimation of the parameters in a sum of complex sinusoids in complex autoregressive noise
Barry Quinn, Macquarie University
- MP8b1-15 A Modulation Code-Based Blind Receiver for Memoryless Multiuser Volterra Channels
Carlos Alexandre Rolim Fernandes, Gérard Favier, I3S Laboratory; João Cesar Moura Mota, GTEL Laboratory
- MP8b1-16 Distributed Iteratively Quantized Kalman Filtering for Wireless Sensor Networks
Eric J. Msechu, Alejandro Ribeiro, Stergios I. Roumeliotis, Georgios Giannakis, University of Minnesota
- MP8b1-17 Sinusoidal Order Estimation using the Subspace Orthogonality and Shift-Invariance Properties
Mads Christensen, Aalborg University; Andreas Jakobsson, Karlstad University; Søren Holdt Jensen, Aalborg University
- MP8b1-18 Phase Noise Mitigation in Channel Parameter Estimation for TDM Switched MIMO Channel Sounding
Attaphongse Taparugsanagorn, Centre for Wireless Communications / University of Oulu; Xuefeng Yin, Aalborg university; Juha Ylitalo, Elektrobit; Bernard Fleury, Aalborg university
- MP8b1-19 Separation of One-dimensional Waves - a Stochastic Systems Approach
Peter Naucler, Torsten Söderström, Uppsala University
- MP8b1-20 Tracking of MIMO Propagation Parameters under Spatio-Temporal Scattering Model
Jussi Salmi, Andreas Richter, Visa Koivunen, Helsinki University of Technology
- MP8b1-21 Propagator Method and Triangular Factorization for Source Bearing Estimation
Nizar Tayem, Mort Naraghi-Pour, Louisiana State University
- MP8b1-22 Efficient Line Search Method for Riemannian Optimization under Unitary Matrix Constraint
Traian Abrudan, Jan Eriksson, Visa Koivunen, Helsinki University of Technology
- MP8b1-23 Distributed Consensus Algorithms in Sensor Networks With Communication Channel Noise
Soumya Kar, José M. F. Moura, Carnegie Mellon University
- MP8b1-24 On Side-Informed Coding of Noisy Sensor Observations
Chao Yu, Gaurav Sharma, University of Rochester
- MP8b1-25 Blind Separation of In-Building Acoustic Signals for Urban Sensing Using Distributed Sensors
Mohamed Sahmoudi, Moeness Amin, Yimin Zhang, Villanova University

- MP8b1-26 Fundamental limit of sample eigenvalue based detection of signals in colored noise using relatively few samples
Raj Rao Nadakuditi, Massachusetts Institute of Technology; Jack Silverstein, North Carolina State University

Session MP8b2 Biomedical and Genomic Signal Processing

- MP8b2-1 On recovery of sparse signals in compressed DNA microarrays
Haris Vikalo, Farzad Parvaresh, Babak Hassibi, California Institute of Technology
- MP8b2-2 Nonlinear Signal Processing for Voice Disorder Detection by Using Modified GP Algorithm and Surrogate Data Analysis
Aboozar Taherkhani, Seyed Ali Seyedsalehi, Arash Mohammadi, Mohammad Hasan Moradi, Amirkabir University of Technology
- MP8b2-3 Feature-Based Classification of Surface EMG Signal for a Multifunctional Myoelectric Hand
Daryoosh Bineshian, Amirkabir University of Technology; Mohammad Reza Bineshian, Tehran University of Medical Sciences; Seyed Mohammad Ebrahim Mousavi, University of Social Welfare and Rehabilitation Sciences; Mohammad Hasan Moradi, Amirkabir University of Technology
- MP8b2-4 3D Spectrum Analysis of DNA Sequence: Application to *C elegans* Genome
Afef Elloumi Oueslati, ENIT; Zied Lachiri, Insat; Noureddine Ellouze, ENIT

Session TA1 Non-Gaussian and Nonlinear Methods in Statistical Signal Processing

Chair: *Pramod K. Varshney*

- TA1-1 Noise Enhanced Signal Detection and Estimation 8:30 AM
Hao Chen, Pramod Varshney, Syracuse University; James Michels, JHM Technologies
- TA1-2 Weak Signal Estimation in Unknown Chaotic Clutter using Coupled Synchronization 8:55 AM
Ajeesh P. Kurian, Henry Leung, University of Calgary
- TA1-3 Performance Analysis of the NAMF Test in Heterogeneous Non-Gaussian Radar Clutter Scenarios 9:20 AM
Muralidhar Rangaswamy, Freeman Lin, Air Force Research Laboratory
- TA1-4 A new approach to cost-reference particle filtering 9:45 AM
Petar M. Djuric, Zejie Zhang, Monica F. Bugallo, Stony Brook University

	BREAK	10:10 AM
TA1-5	Joint state monitoring and fault detection using distributed particle filtering <i>Qi Cheng, Oklahoma State University; Pramod Varshney, Syracuse University</i>	10:30 AM
TA1-6	Particle Filter with Efficient Importance Sampling and Mode Tracking (PF-EIS-MT) and its Application to Landmark Shape Tracking <i>Namrata Vaswani, Samarjit Das, Iowa State University</i>	10:55 AM
TA1-7	A Bayesian Framework for Abundance Estimation in Hyperspectral Cubes using Markov Random Fields <i>Todd Moon, Jacob Gunther, Matthew Stites, Utah State University; Gustavious Williams, Brigham Young University</i>	11:20 AM
TA1-8	A robust detector for impulsive noise environment <i>Tonu Trump, Tallinn Technical University</i>	11:45 AM

Session TA2 Spatio-Temporal Processing in Biomedical Imaging

Chair: *Yongyi Yang*

TA2-1	Murine Spatiotemporal Cardiac Segmentation <i>Andrew Gilliam, Scott T. Acton, University of Virginia</i>	8:30 AM
TA2-2	Multimodal Imaging of Myocardial Infarction in Mice <i>Brent A. French, Frederick H. Epstein, John A. Hossack, Stuart S. Berr, Christopher M. Kramer, University of Virginia</i>	8:55 AM
TA2-3	An AM-FM model for Motion Estimation in Atherosclerotic Plaque Videos <i>Victor Murray, Sergio E. Murillo, Marios S. Pattichis, University of New Mexico; Christos P. Loizou, Intercollege; Costantinos S Pattichis, Efthymoulos Kyriacou, University of Cyprus; Andrew Nicolaides, University of Cyprus / Vascular Screening and Diagnostic Center</i>	9:20 AM
TA2-4	Spatio-temporal approaches to inverse electrocardiography <i>Dana Brooks, Andrew Keely, Northeastern University; Alireza Ghodrati, Draeger Medical; Gilead Tadmor, Northeastern University; Rob MacLeod, University of Utah</i>	9:45 AM
	BREAK	10:10 AM
TA2-5	Reconstruction of gated cardiac SPECT using DFT basis <i>Yongyi Yang, Xiaofeng Niu, Mingwu Jin, Illinois Institute of Technology</i>	10:30 AM
TA2-6	Non-Iterative MAP Reconstruction for Non-Cartesian MRI Acquisition Sequences <i>Hasib Siddiqui, Charles Bouman, Thomas Talavage, Purdue University</i>	10:55 AM

TA2-7	Surface ECG reconstruction from intracardiac EGM: a PCA-vectocardiogram method <i>Amar Kachenoura, Anissa Bourguiba, Fabienne Porée, Alfredo Hernandez, Guy Carrault, INSERM, U642, Rennes</i>	11:20 AM
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Session TA3 Recent Advances in Cognitive Radio

Chair: *Erik G. Larsson*

TA3-1	Spectrum Opportunity Detection: How Good Is Listen-Before-Talk? <i>Qing Zhao, University of California, Davis</i>	8:30 AM
TA3-2	Censoring for Collaborative Spectrum Sensing in Cognitive Radios <i>Jarmo Lunden, Visa Koivunen, Helsinki University of Technology; Anu Huttunen, Nokia Research Center; H. Vincent Poor, Princeton University</i>	8:55 AM
TA3-3	Sensor-Network-Aided Cognitive Radio: On the Optimal Receiver for Estimate-and-Forward Protocols applied to the Relay Channel <i>Ragnar Thobaben, Erik G. Larsson, Royal Institute of Technology (KTH)</i>	9:20 AM
TA3-4	Cognitive radio Research and Implementation Challenges <i>Aawatif Menouni Hayar, Eurecom Institute</i>	9:45 AM
	BREAK	10:10 AM
TA3-5	Stability analysis of a cognitive multiple access channel with primary QoS constraints <i>Jonathan Gambini, New Jersey Institute of Technology / Politecnico di Milano; Osvaldo Simeone, Yeheskel Bar-Ness, New Jersey Institute of Technology; Umberto Spagnolini, Politecnico di Milano</i>	10:30 AM
TA3-6	Distributed Transmit Power Allocation for Relay-Assisted Cognitive-Radio Systems <i>Jan Mietzner, Lutz Lampe, Robert Schober, University of British Columbia</i>	10:55 AM
TA3-7	A price based dynamic spectrum allocation scheme <i>Joydeep Acharya, Roy Yates, WINLAB, Rutgers University</i>	11:20 AM

Session TA4 Cooperative Diversity

Chair: *J. Nicholas Laneman*

TA4-1	On Achievable Rates for Interference Relay Channel with Interference Cancellation <i>Onur Sahin, Elza Erkip, Polytechnic University</i>	8:30 AM
TA4-2	Feedback-induced Cooperation <i>Debashis Dash, Ashutosh Sabharwal, Rice University</i>	8:55 AM
TA4-3	DMT achieving Distributed Space Time Codes for the MIMO Multiple Access Channel <i>Jean-Claude Belfiore, Maya Badr, Sheng Yang, ENST; Ghaya Rekaya-Ben Othman, ENST Paris</i>	9:20 AM

TA4-4 Cooperative Multiple Access in Interference-Limited Wireless Networks 9:45 AM
Ozgur Oyman, Intel; Feng Xue, Intel Research
BREAK 10:10 AM

TA4-5 Cooperative Transmission of Correlated Gaussian Sources 10:30 AM
Ozgu Alay, Elza Erkip, Yao Wang, Polytechnic University

TA4-6 Distributed Decoding in Cooperative Communications 10:55 AM
Marjan Karkooti, Joseph R. Cavallaro, Rice University

TA4-7 Distributed Multiuser Cooperative Network with Heterogenous Relay Clusters 11:20 AM
Celal Esli, Armin Wittneben, ETH Zurich

TA4-8 Energy Efficient Relaying Games in Cooperative Wireless Transmission Systems 11:45 AM
Jie Yang, Donald Brown, Worcester Polytechnic Institute

Session TA5 Signal Processing for Structural Health Monitoring

Chair: *Antonia Papandreou-Suppappola & Doug Cochran*

TA5-1 Signal Processing Issues Related to Structural Health Monitoring 8:30 AM
Mark Derriso, Air Force Research Laboratory; Steven E. Olson, University of Dayton Research Institute; Jose A. Montes de Oca, Martin P. DeSimio, ATK Mission Systems

TA5-2 Applications of Signal Processing to Structural Health Monitoring 8:55 AM
Charles R. Farrar, Matthew T. Bement, Gyuhae Park, Los Alamos National Laboratory

TA5-3 Damage Classification for Structural Health Monitoring Using Time-Frequency Feature Extraction and Continuous Hidden Markov Models 9:20 AM
Wenfán Zhou, Debejyo Chakraborty, Narayan Kovvali, Antonia Papandreou-Suppappola, Douglas Cochran, Aditi Chattopadhyay, Arizona State University

TA5-4 Optimal Sub-band Beamforming with Frequency Masking for Localized Detection of Damage in Structural Health Monitoring 9:45 AM
Alessio Medda, Victor DeBrunner, Florida State University
BREAK 10:10 AM

TA5-5 Time-Frequency Based Feature Extraction and Classification for Fault Diagnosis in Electric Drives 10:30 AM
Selin Aviyente, Sajjad Zaidi, Elias Strangas, Michigan State University

TA5-6 Comparison of Outlier Detection Algorithms of In-Flight Rotorcraft Vibration Signals 10:55 AM
Santanu Das, Arizona State University; Ashok Srivastava, NASA Ames Research Center

TA5-7 An Inductive Reasoning Approach for Fuzzy Damage Recognition Using Wavelet Energy 11:20 AM
Mahmoud Reda Taha, Department of Civil Engineering

Session TA6 Network Information Theory

Chair: *Aylin Yener*

TA6-1 On the duality of MIMO MAC and BC with AF relays 8:30 AM
Krishna Gomadam, Syed Jafar, University of California, Irvine

TA6-2 On dependence balance bounds for two-way channels 8:55 AM
Ravi Tandon, Sennur Ulukus, University of Maryland

TA6-3 The Scaling of the Broadcast Capacity of Extended Wireless Networks with Cooperative Relays 9:20 AM
Birsén Sirkeci-Mergen, Michael Gastpar, University of California, Berkeley

TA6-4 Capacity of a class of MIMO Cognitive Radios 9:45 AM
Sriram Sridharan, Sriram Vishwanath, University of Texas at Austin
BREAK 10:10 AM

TA6-5 Utility Maximization in Multiple Access Channels. 10:30 AM
Ali ParandehGheibi, Asuman Ozdaglar, Muriel Medard, Atilla Eryilmaz, Massachusetts Institute of Technology

TA6-6 Rate Equivocation Region of a Class of Relay Channels with Orthogonal Components 10:55 AM
Xiang He, Aylin Yener, Pennsylvania State University

TA6-7 An Achievable Rate Region for the Interference Channel with a Cognitive Transmitter 11:20 AM
Ivana Maric, Andrea Goldsmith, Stanford University; Gerhard Kramer, Bell Labs (Alcatel-Lucent); Shlomo Shamai (Shitz), Technion

TA6-8 Wire-Tap Channel With Two-Sided State Information 11:45 AM
Wei Liu, Biao Chen, Syracuse University

Session TA7 Image and Video Coding II

Chair: *Michael Marcellin & Ali Bilgin*

TA7-1 Security of Compressing Encrypted Sources 8:30 AM
Goce Jakimoski, K. P. Subbalakshmi, Stevens Institute of Technology

TA7-2 Channel Coding for Scalable Multimedia in a 2-D Time-Frequency Block of an OFDM System 8:55 AM
Yee Sin Chan, Verizon Wireless; Pamela Cosman, Laurence Milstein, University of California, San Diego

- TA7-3 Distance quantization method for fast nearest neighbor search computations with applications to motion estimation 9:20 AM
Hye-Yeon Cheong, Antonio Ortega, University of Southern California
- TA7-4 802.11 WLAN Video Multicast Based on Temporal Scalable H.264 9:45 AM
Zhengye Liu, Polytechnic University; Zhenyu Wu, Hang Liu, Mingquan Wu, Alan Stein, THOMSON
BREAK 10:10 AM
- TA7-5 JPEG2000: Quality Scalability and Windows of Interest Transmission 10:30 AM
Joan Serra-Sagrasta, Francesc Auli-Llinas, Universitat Autònoma Barcelona
- TA7-6 Multiple description image coding using regions of interest 10:55 AM
Marcus Nystrom, Lund University; Jerry Gibson, University of California, Santa Barbara; John B. Anderson, Lund University
- TA7-7 Multistage Lattice Vector Quantization for Hyperspectral Image Compression 11:20 AM
Ying Liu, William Pearlman, Rensselaer Polytechnic Institute
- TA7-8 Rate Distortion Optimized Vector SPIHT for Wavelet Image Coding 11:45 AM
Yongqing Liang, Scott Budge, Utah State University

Session TA8a1 Architectures

Chair: *Graham Jullien*

- TA8a1-1 Application-Specific Instruction Set Processor Implementation of List Sphere Detector
Juho Antikainen, University of Oulu; Perttu Salmela, Tampere University of Technology; Olli Silvén, Markku Juntti, University of Oulu; Jarmo Takala, Tampere University of Technology; Markus Myllylä, University of Oulu
- TA8a1-2 Distributed Phased Arrays With Wireless Beamforming
David Jenn, Yong Loke, Mathew Tong, Eng Choon Yeo, Robert Broadston, Naval Postgraduate School
- TA8a1-3 A Handheld Texel Camera for Acquiring Near-Instantaneous 3D Images
Brandon Boldt, Scott Budge, Utah State University
- TA8a1-4 Efficient Multiplierless Polyphase FIR Filter based on New Distributed Arithmetic Architecture
Jose Tecpanecatl-Xihuatl, Ruth Aguilar-Ponce, Magdy Bayoumi, University of Louisiana at Lafayette
- TA8a1-5 Instruction Set Extensions for AES Processing on a Multithreaded Software Defined Radio Platform
Christopher Jenkins, Suman Mamidi, Michael Schulte, University of Wisconsin-Madison; John Glossner, Sandbridge Technologies

- TA8a1-6 Combined radix-10 and radix-16 division unit
Tomas Lang, University of California, Irvine; Alberto Nannarelli, Technical university of Denmark
- TA8a1-7 A Comparative Analysis of Data-Driven Architectural Techniques for Low-Power Array Multipliers
Vasily Moshnyaga, Fukuoka University
- TA8a1-8 Iterative Radix-8 Multiplier Structure Based on a Novel Real-time CSD Recoding
Yunhua Wang, University of Oklahoma; Linda DeBrunner, Florida State University; Joseph Havlicek, Dayong Zhou, University of Oklahoma
- TA8a1-9 A solution for memory collision in semi-parallel FPGA-based LDPC decoder design
Radivoje Zarubica, Stephen Wilson, University of Virginia
- TA8a1-10 Hardware implementation of an Echo-Canceller for DVB-T On-Channel Repeaters
Paolo Altamura, Gian Carlo Cardarilli, University of Rome; Andrea Del Re, Skytechnology S.r.l.; Marco Re, University of Rome
- TA8a1-11 High Throughput Sphere Decoding Using Staggered Decoding Schedule
Pankaj Bhagawat, Texas A&M University; Chunjie Duan, Mitsubishi Electric Research Lab-Cambridge; Gwan Choi, Texas A&M University
- TA8a1-12 On Performance and Complexity of Sphere Decoding
Chester Park, Samsung Advanced Institute of Technology; Sin-Chong Park, Information and Communications University
- TA8a1-13 An algorithm for factoring very high degree polynomials with random coefficients
C. Sidney Burrus, James Fox, Gary Sitton, Sven Treitel, Rice University
- TA8a1-14 Design of Low-Pass Tunable Complex Heterodyne Filters
Michael Soderstrand, University of California

Session TA8a2 Modulation, Detection, and Error Control Coding

- TA8a2-1 Analytical Bit Error Rate Calculation for BICM(-ID) Assuming Imperfect CSI
Susanne Godtmann, I-Wei Lai, RWTH Aachen University; Tzi-Dar Chiueh, National Taiwan University; Gerd Ascheid, Heinrich Meyr, RWTH Aachen University
- TA8a2-2 Hyper Phase Shift Keying (HPSK) Modulation
James Caldwell, Murali Tummala, Naval Post-Graduate School
- TA8a2-3 Fast Near-Optimal Noncoherent Sequence Detection for Block Transmission over Doubly Dispersive Channels
Sungjun Hwang, Philip Schniter, The Ohio State University

- TA8a2-4 Data-Dependent Superimposed Training for Noncoherent Channels
Jingnong Yang, Stanford University; Douglas B. Williams, Georgia Institute of Technology; John Cioffi, Stanford University
- TA8a2-5 Space-Time Serial Concatenated Turbo Coded Modulation
Daniel Liu, Michael Fitz, University of California, Los Angeles
- TA8a2-6 Expanding Window Fountain Codes for Unequal Error Protection
Dino Sejđinovic, University of Bristol; Dejan Vukobratovic, University of Novi Sad; Angela Doufexi, University of Bristol; Vojin Senk, University of Novi Sad; Robert J. Piechocki, University of Bristol
- TA8a2-7 Analog Source-Channel Codes Based on Orthogonal Polynomials
Niklas Wernersson, Mikael Skoglund, Royal Institute of Technology (KTH); Tor Ramstad, Norwegian University of Science and Technology (NTNU)
- TA8a2-8 Space-Time Coding versus Repetition Coding for Free-Space Optical Communication
Majid Safari, Murat Uysal, University of Waterloo
- TA8a2-9 Architecture and Algorithm for a Stochastic Soft-output MIMO Detector
Kiarash Amiri, Predrag Radosavljevic, Joseph R. Cavallaro, Rice University

Session TA8a3 Interference Handling in Wireless Communications

- TA8a3-1 Interference Suppression in Wireless Cellular Networks through Picocells
Yifan Liang, Stanford University; Reinaldo Valenzuela, Gerard Foschini, Dmitry Chizhik, Bell Labs (Alcatel-Lucent); Andrea Goldsmith, Stanford University
- TA8a3-2 Interference Avoidance With Limited Feedback
Dimitrie Popescu, Sirisha Koduri, Old Dominion University
- TA8a3-3 Extrinsic Information Transfer in Cellular MC-CDMA for Inter-Cell Interference Cancellation
Simon Plass, Stephan Sand, German Aerospace Center (DLR)
- TA8a3-4 Low-Complexity Variable Step-Size Mechanism for Code-Constrained Constant Modulus Stochastic Gradient Algorithms applied to CDMA Interference Suppression
Yunlong Cai, Rodrigo de Lamare, University of York
- TA8a3-5 Gradient Descent Interference Avoidance for Uplink CDMA Systems with Multipath
Dimitrie Popescu, Danda Rawat, Old Dominion University

- TA8a3-6 The Simple Near-Optimal Pairing Scheme of Superposition Coding in Downlink DS-CDMA Multipath Channel
Seungyeon Eom, Janghoon Yang, Dong Ku Kim, Yonsei University
- TA8a3-7 An Ultra Wideband Transmitted Reference Scheme Gaining from Intersymbol Interference
Florian Troesch, Armin Wittneben, ETH Zurich
- TA8a3-8 Joint Adaptive Modulation, Diversity Combining, and Power Control for Downlink Transmission in Two-cell Wireless Networks
Anders Gjendemsjo, Norwegian University of Science and Technology (NTNU); Hong-Chuan Yang, University of Victoria; Geir Egil Oien, Norwegian University of Science and Technology (NTNU); Mohamed-Slim Alouini, Texas A&M University at Qatar

Session TA8b1 Multirate and Digital Signal Processing

- TA8b1-1 A Generalized Lapped Transform with Unequal Length Filters Based on First-Order Linear-Phase Filter Banks
Taichi Yoshida, Yuichi Tanaka, Masaaki Ikehara, Keio University
- TA8b1-2 Design and Implementation of Discrete-Time Filters for Efficient Rate-Conversion Systems
Thomas Baran, Alan Oppenheim, Massachusetts Institute of Technology
- TA8b1-3 Frequency domain properties of locally stationary improper second order stochastic processes
Patrik Wahlberg, Peter J. Schreier, University of Newcastle
- TA8b1-4 On the Design of Sparse Half-Band Like FIR Filters
Oscar Gustafsson, Linköping University; Linda DeBrunner, Victor DeBrunner, Florida State University; Håkan Johansson, Linköping University
- TA8b1-5 Sampling Based on Local Bandwidth
Dennis Wei, Alan Oppenheim, Massachusetts Institute of Technology
- TA8b1-6 Signal Adapted Filter Bank Design Using Markov Parameters
Peter Vouras, Trac Tran, Johns Hopkins University
- TA8b1-7 A Simple Proof of the Alternation Theorem
P. P. Vaidyanathan, California Institute of Technology; Truong Nguyen, University of California, San Diego
- TA8b1-8 Three-dimensional cone FIR filters design using the McClellan transform
Guergana Mollova, Wolfgang Mecklenbräuker, Vienna University of Technology
- TA8b1-9 Design of FIR LS Hilbert transformers through fullband differentiators
Guergana Mollova, Vienna University of Technology

- TA8b1-10 Signal Segmentation and Dark Energy in Sparse Atomic Approximations
Bob L. Sturm, John J. Shynk, University of California, Santa Barbara; Laurent Daudet, Universite Pierre et Marie Curie (Paris 6)
- TA8b1-11 Reconstruction Convergence of an Impulse-doublet Sampled Random Processes
Jim Schroeder, Harris Corporation; Muralidhar Rangaswamy, Air Force Research Laboratory; Bob Kubichek, University of Wyoming
- TA8b1-12 A Novel Spectral Estimation Method By Using Periodic Nonuniform Sampling
Dongdong Qu, Andrzej Tarczynski, University of Westminster
- TA8b1-13 Implementation Considerations and Performance Comparison of Variable Bandwidth FIR Filter and Phase Equalized IIR Filter
fredric harris, San Diego State University
- TA8b1-14 Spectrum analysis at the output of a nonlinear power amplifier with multicarrier signals
Emmanuel Cottais, Yide Wang, Bruno Feuvrie, IREENA
- TA8b1-15 Implementing Recursive Filters with Large Ratio of Sample Rate to Bandwidth
fredric harris, San Diego State University; Wade Lowdermilk, BAE systems
- TA8b1-16 High-Performance Low-Cost DFE Using IFIR Filters
Chen Meng, Jamal Tuqan, University of California, Davis
- TA8b1-17 Diversity in Shallow Water Environments Using Blind Time-Frequency Separation Techniques
Bertrand Gottin, GIPSA-LAB; Jun Zhang, Antonia Papandreou-Suppappola, Arizona State University; Cornel Ioana, GIPSA-LAB
- TA8b1-18 Fixed-Rate Fine-Resolution Quantization for Detection: Asymptotic Divergence Loss with Respect to Optimal Likelihood Ratio Quantizers
Michael Lexa, Don Johnson, Rice University
- TA8b1-19 Nonnegative Basis Learning via Alternating Convex Programming
Argyris Zymnis, Seung-Jean Kim, Joelle Skaf, Mario Parente, Stephen Boyd, Stanford University

Session TA8b2 Performance Bounds

- TA8b2-1 Multiuser Diversity in the Interference Limited Regime
Stephanie Pereira, Arogyaswami Paulraj, George Papanicolaou, Stanford University
- TA8b2-2 On the Network Outage Probability with a Common SIR Requirement
Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications; Holger Boche, Marcin Wiczanowski, Technical University of Berlin

- TA8b2-3 Impact of User Mobility and Asymmetry on Multiuser Scheduler Performance
Pengcheng Zhan, Brigham Young University; Ramesh Annavejjala, ArrayComm LLC; A. Lee Swindlehurst, Brigham Young University
- TA8b2-4 Multicarrier Broadcast and Unicast Hybrid Systems
Hongxiang Li, Bin Liu, Hui Liu, University of Washington
- TA8b2-5 Prediction with Worst-case Constraints
Dror Baron, Menta Capital LLC; Ananya Sen Gupta, IEEE Member; Andrew Singer, University of Illinois at Urbana-Champaign

Session TA8b3 Selected Topics in Wireless Communications

- TA8b3-1 Varying Power Integer Codes for CDMA Communications
Radha Poluri, Ali Akansu, New Jersey Institute of Technology
- TA8b3-2 Near-Far Resistance of Multirate CDMA Communications Systems
Xiaodong Yue, Songlin Tian, University of Central Missouri
- TA8b3-3 Minimum Analog-Digital Quantization Resolution Requirements for Digital Communications Systems
Gareth Middleton, Behnaam Aazhang, Rice University
- TA8b3-4 Comparison of Multimedia Transport Schemes over Markovian Wireless Channels
Syed Ali Khayam, Hayder Radha, Michigan State University
- TA8b3-5 A novel stochastic model and fast generation method for Nakagami fading channels
James Ritcey, Chantri Polprasert, University of Washington
- TA8b3-6 Simplified Eigenvalues Distributions of 2 x 2 Complex Noncentral Wishart
Mohamad Charafeddine, Arogyaswami Paulraj, Stanford University
- TA8b3-7 MIMO Systems with Arbitrary Antenna Array Architectures: Channel Modeling, Capacity and Low-Complexity Signaling
Vasanthan Raghavan, Ada Poon, Venu Veeravalli, University of Illinois at Urbana-Champaign
- TA8b3-8 A Tractable Robust Optimization Approach to Downlink Beamforming in Wireless Communications
Amir Mutapcic, Seung-Jean Kim, Stephen Boyd, Stanford University

Session TP1 Underwater Acoustic Array Signal Processing

Chair: *Hongya Ge*

- TP1-1 Performance of line arrays of vector and higher order sensors
Henry Cox, Hung Lai, Lockheed Martin Corporation 1:30 PM

TP1-2	On the use of energy concentrating beamformers and filters for improved estimation of angular extent (active sonar classification) <i>Ashwin Sarma, Naval Undersea Warfare Center; Donald Tufts, University of Rhode Island; William Comeau, Naval Undersea Warfare Center</i>	1:55 PM
TP1-3	Multitaper Array Processing <i>Kathleen Wage, George Mason University</i>	2:20 PM
TP1-4	Robust Adaptive Beamforming of Volumetric Arrays <i>Ivars P. Kirsteins, Naval Undersea Warfare Center; Hongya Ge, New Jersey Institute of Technology</i>	2:45 PM
	BREAK	3:10 PM
TP1-5	A Frequency-Domain Multi-Band Matched-Filter Approach to Passive Diver Detection <i>Kil Woo Chung, Hongbin Li, Alexander Sutin, Stevens Institute of Technology</i>	3:30 PM
TP1-6	Array Manifold Geometry and Sparse Array Design Optimization <i>Neil Malloy, Multisensor Science LLC</i>	3:55 PM
TP1-7	Cramer-Rao Lower Bound for DOA Estimation Using Vector and Higher-Order Sensor Arrays <i>Hung Lai, Lockheed Martin Corporation; Kristine Bell, George Mason University</i>	4:20 PM
TP1-8	Improved consistent estimation in Krylov subspaces <i>Francisco Rubio, Xavier Mestre, CTTC</i>	4:45 PM

Session TP2 Cellular Image Analysis

Chair: *Scott Acton*

TP2-1	Detection of linear structures in biological images <i>Sylvain Berlemont, Institut Pasteur / Genomic Vision S.A.; Aaron Bensimon, Genomic Vision S.A.; Jean-Christophe Olivo-Marin, Institut Pasteur</i>	1:30 PM
TP2-2	Breaking resolution limits: advances and challenges in single molecule microscopy <i>Sripad Ram, University of Texas Southwestern Medical Center; Jerry Chao, Prashant Prabhat, Anish Abraham, University of Texas at Dallas; E. Sally Ward, University of Texas Southwestern Medical Center; Raimund Ober, University of Texas at Dallas</i>	1:55 PM
TP2-3	Validation of in vivo Leukocyte Velocity Estimates Via Modeling and Simulation <i>Philip Morrow, Kurt Saetler, University of Ulster</i>	2:20 PM
TP2-4	Using μ -PIV to interrogate the endothelial surface layer in arterioles in vivo <i>Michele Savery, Edward Damiano, Boston University</i>	2:45 PM

	BREAK	3:10 PM
TP2-5	Shear field around adherent leukocytes as measured by Micro-PTV <i>John Pickard, Klaus Ley, University of Virginia</i>	3:30 PM
TP2-6	HDR-Microscopy of Cell Specimens: Imaging and Image Analysis <i>Andre Bell, Dietrich Meyer-Ebrecht, RWTH Aachen University; Alfred Boecking, Heinrich-Heine University Duesseldorf; Til Aach, RWTH Aachen University</i>	3:55 PM
TP2-7	Extracting Dynamic Microtubule Features from Image Sequences <i>Alphan Altinok, B. S. Manjunath, Kenneth Rose, University of California, Santa Barbara</i>	4:20 PM
TP2-8	Geometric and Signal Processing for In Silico Models of Cell Synapses from Electron Microscopy <i>Chandrajit Bajaj, University of Texas at Austin</i>	4:45 PM

Session TP3 Ultra-Wideband Communications

Chair: *Ahmed Tewfik*

TP3-1	The Effect of Timing Error upon UWB System Capacity <i>Wenyi Zhang, Urbashi Mitra, University of Southern California</i>	1:30 PM
TP3-2	High-Speed and Low-Power UWB Transceiver Design <i>Won Namgoong, University of Texas at Dallas</i>	1:55 PM
TP3-3	The search for good digitally generated Impulse-like UWB signals. <i>Terry Lewis, Robert Scholtz, University of Southern California / Raytheon</i>	2:20 PM
TP3-4	Adaptive Overlap-and-Add Techniques for MB-OFDM Systems <i>Anuj Batra, Deric Waters, Srinivas Lingam, Tarkesh Pande, Texas Instruments</i>	2:45 PM
	BREAK	3:10 PM
TP3-5	High Speed Frequency Hopping Using Injection Locked RF Front-ends <i>Narasimha Lanka, Ramesh Harjani, University of Minnesota</i>	3:30 PM
TP3-6	Balanced binary sequences for UWB OFDM <i>Syed Faisal Shah, Ahmed Tewfik, University of Minnesota</i>	3:55 PM
TP3-7	Clustering of Wireless Sensors based on Ultra-Wideband Geo-Regioning <i>Christoph Steiner, Armin Witneben, ETH Zurich</i>	4:20 PM
TP3-8	Lower Bound on Time-Delay Estimation Error of UWB Signals <i>Hicham Anouar, Aawatif Menouni Hayar, Raymond Knopp, Christian Bonnet, Institut Eurecom</i>	4:45 PM

Session TP4a Estimation and Detection

Chair: Aleksandar Dogandzic

- TP4a-1 Signal Power Estimation Via Vector and Matrix Approaches 1:30 PM
Lin Du, Jian Li, University of Florida; Petre Stoica, Uppsala University
- TP4a-2 Distributed Detection of Information Flows with Side-Information 1:55 PM
Ting He, Lang Tong, Cornell University
- TP4a-3 Two-Dimensional Mixed Autoregressive Models for Space-Time Adaptive Processing 2:20 PM
Yuri Abramovich, Defence Science and Technology Organisation; Ben Johnson, RLM Management Pty Ltd / University of South Australia; Nicholas Spencer, Adelaide Research & Innovation Pty. Ltd. (ARI)
- TP4a-4 Distributed Adaptive Quantization for Wireless Sensor Networks 2:45 PM
Jun Fang, Hongbin Li, Stevens Institute of Technology

Session TP4b Array Signal Processing

Chair: Andreas Jakobsson

- TP4b-1 A Polynomial EVD Algorithm for Broadband Array Signal Processing 3:30 PM
Joanne Foster, Cardiff University; John McWhirter, Paul Baxter, Tom Cooper, Soydan Redif, QinetiQ; Jonathon Chambers, Cardiff University
- TP4b-2 Eigenanalysis of Subspace Decompositions for Robust Adaptive Beamforming 3:55 PM
Louis Scharf, Colorado State University; Ali Pezeshki, Princeton University; Barry Van Veen, University of Wisconsin-Madison
- TP4b-3 On the Energy-Efficiency of cooperative MIMO in Nakagami fading Wireless Sensor Networks 4:20 PM
Erik Björnemo, Anders Ahlén, Mathias Johansson, Uppsala University
- TP4b-4 Robust Multi-Sensor Detection of Polymorphic NQR Signals 4:45 PM
Naveed Razzaq Butt, Andreas Jakobsson, Karlstad University

Session TP5 Low Power Methods

Chair: W. K. Jenkins

- TP5-1 Sensor-Networks-Inspired Low-Power Robust PN Code Acquisition 1:30 PM
Sriram Narayanan, Girish V. Varatkar, Douglas L. Jones, Naresh R. Shanbhag, University of Illinois at Urbana-Champaign
- TP5-2 Variation-Aware Low-Power Buffer Design 1:55 PM
Chrysostomos Nicopoulos, Aditya Yanamandra, Suresh Srinivasan, Vijaykrishnan Narayanan, Mary Jane Irwin, The Pennsylvania State University

- TP5-3 Reducing Complexity of FIR Filter Implementations for Low Power Applications 2:20 PM
Linda DeBrunner, Florida State University
- TP5-4 Residue Number System for Low Power DSP Applications 2:45 PM
Gian Carlo Cardarilli, University of Rome Tor Vergata; Alberto Nannarelli, Technical University of Denmark; Marco Re, University of Rome Tor Vergata
- BREAK 3:10 PM
- TP5-5 Low Power Adaptive Filters Based on a Combination of Genetic Optimization and Residue Number System Coding 3:30 PM
Chandra Rhadakrishnan, The Pennsylvania State University; Dean Krusienski, North Florida State University; Kenneth Jenkins, The Pennsylvania State University
- TP5-6 Hybrid Multiple Constant Multiplication Implementation for FIR Filters in FPGA Devices 3:55 PM
Charles D. Howard, Linda DeBrunner, Victor DeBrunner, Florida State University
- TP5-7 Impact of RNS Coding Overhead on FIR Filters Performance 4:20 PM
Gian Carlo Cardarilli, Andrea Del Re, University of Rome Tor Vergata; Alberto Nannarelli, Technical University of Denmark; Marco Re, University of Rome Tor Vergata
- TP5-8 An RNS-Enhanced Microprocessor Implementation of Public Key Cryptography 4:45 PM
Zhining Lim, Braden Phillips, University of Adelaide

Session TP6a Network Pricing

Chair: John Musacchio

- TP6a-1 Economic Consequences of Weak Network Neutrality 1:30 PM
Jean Walrand, University of California, Berkeley; John Musacchio, University of California, Santa Cruz; Galina Schwartz, University of California, Berkeley
- TP6a-2 A randomized scheduler for interference-limited networks 1:55 PM
Atilla Eryilmaz, Asuman Ozdaglar, Massachusetts Institute of Technology; Peter Marbach, University of Toronto
- TP6a-3 The Price of Simplicity 2:20 PM
Srinivas Shakkottai, Stanford University; Daron Acemoglu, Asuman Ozdaglar, Massachusetts Institute of Technology; Rayadurgam Srikant, University of Illinois at Urbana-Champaign
- TP6a-4 Incentive Compatible QoS Design for 802.11e Networks 2:45 PM
Jennifer Price, Pavan Nugehalli, Tara Javidi, University of California, San Diego

Session TP6b Relay Channels

- TP6b-1 Forward Decoding over a Relay Channel 3:30 PM
Sibi Raj Bhaskaran, EPFL

TP6b-2	Dimension Expansion Relaying for Slow Fading Channels based on Hybrid Digital-Analog Source-Channel Coding <i>Sha Yao, Mikael Skoglund, Royal Institute of Technology (KTH)</i>	3:55 PM
TP6b-3	Achievable rates for the restricted half-duplex two-way relay channel <i>Clemens Schnurr, Fraunhofer German-Sino Lab for Mobile Communications; Tobias J. Oechtering, Technical University of Berlin; Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications</i>	4:20 PM
TP6b-4	The Capacity of One-way Cooperative Multicast Channels with Finite-Rate Feedback <i>Youjian Liu, University of Colorado, Boulder</i>	4:45 PM

Session TP7a Speech Coding, Processing and Transport

Chair: *Sean Ramprashad*

TP7a-1	Steganographic Wideband Telephony using Narrowband Speech Codecs <i>Peter Vary, Bernd Geiser, RWTH Aachen University</i>	1:30 PM
TP7a-2	Classification-based techniques for improving the robustness of CELP coders <i>Milan Jelinek, Roch Lefebvre, Vaclav Eksler, Catherine Lemyre, Université de Sherbrooke</i>	1:55 PM
TP7a-3	Least Significant Bit Coding of Speech <i>W. Bastiaan Kleijn, Minyue Li, Royal Institute of Technology (KTH)</i>	2:20 PM
TP7a-4	Perceptual Bit-Patterns based on Partial-Order Allocation Schemes with application to Subband Speech and Audio Coding <i>Sean Ramprashad, DoCoMo USA Labs; Soo Hyun Bae, Georgia Institute of Technology</i>	2:45 PM

Session TP7b Plenoptic Signal Processing

Chair: *Dan Lelescu*

TP7b-1	Shared Interactive Image/Video and their Meeting Applications <i>Qiong Liu, Don Kimber, Eleanor Rieffel, Francine Chen, FX Palo Alto Lab</i>	3:30 PM
TP7b-2	Comparison of 3D data formats and coding algorithms for free viewpoint video <i>Aljoscha Smolic, Philipp Merkle, Karsten Mueller, Thomas Wiegand, Fraunhofer HHI</i>	3:55 PM
TP7b-3	Multi-view video compression for multi-view 3D displays <i>Matthias Zwicker, University of California, San Diego</i>	4:20 PM
TP7b-4	Experiential Signal Processing (ESP) and Experiential Telecommunications (ET) <i>Jerry Gibson, University of California, Santa Barbara</i>	4:45 PM

Session TP8a1 Advances in MIMO Communications

TP8a1-1	Communications through Time-Varying Subspace Channels <i>Benjamin Friedlander, University of California, Santa Cruz</i>
TP8a1-2	Multichannel Adaptive Interference Suppression and Desired Signal Equalization for Sparse Arrays <i>Paul Fiore, Andrew McKellips, Keith Forsythe, MIT Lincoln Laboratory</i>
TP8a1-3	A Selective Decision-Feedback Detector for Space-Time Block Code with Combined Diversity and Spatial Multiplexing <i>Shouxing Qu, Research In Motion Limited</i>
TP8a1-4	A Comparison of MIMO and Phased Array Radar with the Application of MUSIC <i>Dave Wilcox, Mathini Sellathurai, Tharmalingam Ratnarajah, Queen's University Belfast</i>
TP8a1-5	On the Performance of Lattice Reduction Schemes for MIMO Data Detection <i>Dirk Wuebben, University of Bremen; Dominik Seethaler, Vienna University of Technology</i>
TP8a1-6	Performance Degradation of Viterbi Decoding in the Presence of Discrete Distributed Interference <i>Xueyuan Zhao, Hong Kong Applied Science and Technology Research Institute Company Limited (ASTRI)</i>
TP8a1-7	MIMO Mobile Terminal Tracking Using Bayesian Probability Estimation <i>Konstantinos Papakonstantinou, Eurecom Institute; Merouane Debbah, Supelec; Dirk Slock, Eurecom Institute</i>
TP8a1-8	On the performance of the Golden code in BICM-MIMO and IEEE 802.11n cases <i>Lina Mroueh, Motorola Labs - ENST Paris; Stéphanie Rouquette-Léveil, Motorola Labs; Ghaya Rekaya-Ben Othman, Jean-Claude Belfiore, ENST Paris</i>
TP8a1-9	Extended Uniform Channel Decomposition for MIMO Communications with Intersymbol Interference <i>Yi Jiang, NextWave Broadband; Mahesh Varanasi, University of Colorado, Boulder</i>
TP8a1-10	Lattice Reduction Aided Detection with Reduced Complexity for Time-Correlated MIMO Channel <i>Chan-ho An, Janghoon Yang, Seung-hoon Jang, Dong Ku Kim, Yonsei University</i>
TP8a1-11	The effect of LLR clipping to the complexity of list sphere detector algorithms <i>Markus Myllylä, Juho Antikainen, Markku Juntti, Centre for Wireless Communications; Joseph R. Cavallaro, Rice University</i>
TP8a1-12	Experimental Validation of Maximum Entropy-based MIMO Channel Models <i>Raul de Lacerda, Eurecom; Maxime Guillaud, FTW; Leonardo Sampaio, Eurecom; Merouane Debbah, Supelec</i>

- TP8a1-13 Copula Models for Wireless Fading and their Impact on Wireless Diversity Combining
James Ritcey, University of Washington
- TP8a1-14 Out-sphere decoder for non-coherent ML SIMO detection and its expected complexity
Mihailo Stojnic, Babak Hassibi, California Institute of Technology
- TP8a1-15 Maximizing mutual information in general MIMO fading channels under rank constraint
Harish Venkatachari, Qualcomm Inc; Mahesh Varanasi, University of Colorado, Boulder

Session TP8a2 MIMO Communication over Frequency Selective Channels

- TP8a2-1 An Iterative Receiver for Joint Detection, Decoding, and Channel Estimation in Turbo Coded MIMO OFDM
Jari Ylioinas, Markku Juntti, Centre for Wireless Communication
- TP8a2-2 Adaptive Bit Loading for OFDM Systems with Imperfect Channel State Information
Stephan Sand, Armin Dammann, German Aerospace Center (DLR); Carlo Mutti, ETH Zürich
- TP8a2-3 A Practical Approach for Weighted Rate Sum Maximization in MIMO-OFDM Broadcast Channels
Mari Kobayashi, Supelec; Giuseppe Caire, University of Southern California
- TP8a2-4 Optimal Noncoherent MIMO-OFDM Constellations at Low SNR
Shivratna Srinivasan, Mahesh Varanasi, University of Colorado, Boulder
- TP8a2-5 Adaptive Multiband Space-Time UWB Scheme with OFDM-Based Channel Models
Jiqun Qi, Cao Lei, University of Mississippi
- TP8a2-6 Interference Cancellation and Space-Time Block Codes in Frequency Selective Multiple-Access Channels
Debasish Chowdhury, Qualcomm Inc
- TP8a2-7 Robust Minmax Equalization of Imperfectly Known Frequency Selective MIMO Channels
Nikola Vucic, Fraunhofer HHI; Holger Boche, TU Berlin
- TP8a2-8 A Design of Precoding and Equalisation for Broadband MIMO Systems
Chi Hieu Ta, Stephan Weiss, University of Strathclyde

Session TP8a3 Adaptive Systems and Processing

- TP8a3-1 Detecting Instability Potentials in Regularization for Fast Affine Projection Algorithms
Heping Ding, National Research Council
- TP8a3-2 Maximum a Posteriori based Adaptive Algorithms
Dong-Yan Huang, Institute for Infocomm Research
- TP8a3-3 Robust Notch Filtering by Combining Adaptation in Both Time and Frequency
Minh Ta, Victor DeBrunner, Florida State University

- TP8a3-4 Adapting an Optical Equalizer without Regressor Access
Andrew Klein, Benjamin Evans, C. Richard Johnson, Jr., Cornell University; Glenn Collins, Michael Larimore, Jeffrey Harp, John Treichler, Applied Signal Technology
- TP8a3-5 Self Localization Method for Mobile Sensor in Navigation Applications
Sangjin Hong, Stony Brook University
- TP8a3-6 A Downlink DS-CDMA Equaliser with Virtual Users Approach
Mahmoud Hadeif, Queen Mary University of London; Adel Daas, Stephan Weiss, University of Strathclyde
- TP8a3-7 Sensor Network Management Through Fitness Function Design In Multi-Objective Optimization
Lisa Osadciw, Kalyan Veeramachaneni, Syracuse University
- TP8a3-8 Optimal Beamforming with Mobile Robots
Laura Koch, Raviraj Adve, Bruce Francis, University of Toronto

Session TP8b1 Multi-User MIMO Communications II

- TP8b1-1 Enhanced SVD-Based Transmit Pre-Processing for Multi-User MIMO Wireless Systems with Imperfect CSIT
Amitav Mukherjee, Hyuck Kwon, Wichita State University
- TP8b1-2 Stream Control for Interfering MIMO Links with Linear MMSE Receivers
Sudhanshu Gaur, Mary Ann Ingram, Georgia Institute of Technology
- TP8b1-3 Coordinated Multi-cell MIMO Systems with Cellular Block Diagonalization
Jun Zhang, University of Texas at Austin; Runhua Chen, Texas Instruments Incorporated; Jeffrey Andrews, Robert Heath, University of Texas at Austin
- TP8b1-4 Orthogonal Multi-beam Techniques for Multi-user Diversity and Multiplexing Gain in Packet-based Wireless Systems
Dong-Chan Oh, Yong-Hwan Lee, Seoul National University
- TP8b1-5 Throughput and Rate Region for Quasi-Static Multiple Access Channels with Channel Estimation Errors
Madhan Jaganathan, Ravi Narasimhan, University of California, Santa Cruz
- TP8b1-6 Achievable Rate Region for Downlink Beamforming in the Presence of Interference
Xiaohu Shang, Biao Chen, Syracuse University
- TP8b1-7 Decentralized Dynamic Channel Allocation for MIMO systems
Peter von Wrycza, Mats Bengtsson, Björn Ottersten, Royal Institute of Technology (KTH)
- TP8b1-8 Multiple Antenna Interference Cancellation for M-PSK Signals Using the SAGE Algorithm
Romain Henri Joseph Piton, Motorola A/S; Ingmar Land, University of South Australia; Bin Hu, Bernard Henri Fleury, Aalborg University

TP8b1-9 Space-Time Channel Shortening Based Spatial Multiplexing Schemes for Multiusers with Multipath Channels
Vimal Sharma, Sangarapillai Lambotharan, Loughborough University

TP8b1-10 Resource Allocation in Uplink Multi-carrier MIMO systems for Low-complexity Transceivers
Sumanth Jagannathan, Chan Soo Hwang, John Cioffi, Stanford University

Session TP8b2 OFDM and Multicarrier Communications

TP8b2-1 Universal linear precoding for widely-linear equalization in OFDM systems
Donatella Darsena, Università di Napoli Parthenope; Giacinto Gelli, Francesco Verde, Università di Napoli Federico II

TP8b2-2 Dynamic scheduling and power allocation for Multi-cell Capacity Optimization in Downlink OFDM Networks
Luca Venturino, Università degli Studi di Cassino; Narayan Prasad, NEC Labs America; Xiaodong Wang, Columbia University

TP8b2-3 ARQ with Subcarrier Assignment for OFDM Systems
Chin Keong Ho, Institute for Infocomm Research; Hongming Yang, Eindhoven University of Technology; Ashish Pandharipande, Philips Research Laboratories; Jan W. M. Bergmans, Eindhoven University of Technology

TP8b2-4 Iterative Decoding, Offset and Channel Estimation for OFDM using the Unscented Kalman Filter
Taehyuk Kang, Ronald Iltis, University of California, Santa Barbara

TP8b2-5 PAPR Reduction in OFDM Systems by Successive Random Sign Negation
Shouxing Qu, Farzaneh Kohandani, Jim Womack, Research In Motion Limited

TP8b2-6 Robust Peak-to-Average Ratio Reduction in OFDM with Adaptive Clipping Control
Kitaek Bae, Edward Powers, University of Texas at Austin

TP8b2-7 An SDP Approach for PAPR Reduction in OFDM Systems Using Partial Transmit Sequences
Ahmad Rushdi, Chen Meng, Jamal Tuqan, University of California, Davis

TP8b2-8 PAPR Reduction in Trigonometric-Based OFDM Systems
Ahmad Rushdi, Jamal Tuqan, University of California, Davis

TP8b2-9 Tone Selection for PAR Reduction via Tone Reservation in Uplink OFDMA
Brian Krongold, University of Melbourne

TP8b2-10 Near ML Detection of Nonlinearly Distorted OFDM Signals
Dimitris Papailiopoulos, George Karystinos, Technical University of Crete

Session TP8b3 Estimation, Synchronization, and Equalization

TP8b3-1 A Semi-Blind Pilot-Assisted Channel Estimation Algorithm in Cyclic Prefix Systems
Borching Su, P. P. Vaidyanathan, California Institute of Technology

TP8b3-2 Efficient Clock Synchronization in Wireless Sensor Networks
Qasim Chaudhari, Yi Zhou, Erchin Serpedin, Texas A&M University

TP8b3-3 Pulse-coupled distributed PLLs in heterogeneous wireless networks
Oswaldo Simeone, New Jersey Institute of Technology; Gesualdo Scutari, University of Rome

TP8b3-4 Cramer-Rao Bounds and Performance Analysis of a Low-Complexity Algorithm for Burst Mode Synchronization
Jake Gunther, Todd Moon, Utah State University

TP8b3-5 Time-Slotted Round-Trip Carrier Synchronization
Ipek Ozil, Donald Brown, Worcester Polytechnic Institute

TP8b3-6 OFDM Carrier Synchronization in the presence of Nonlinear High Power Amplifier
Amaresh Malipatil, Hao Zhou, Yih-Fang Huang, University of Notre Dame

TP8b3-7 Preamble Design for Joint Estimation of Frequency Offset and I/Q Imbalance in Direct Conversion OFDM system
Jonghun Park, Yujung Lee, Hyuncheol Park, Information and Communications University

TP8b3-8 Preamble-based Symbol Timing Estimation for Wireless OFDM Systems
Manik Gadhiok, Joseph R. Cavallaro, Rice University

TP8b3-9 Iterative B-spline Estimator Using Superimposed Training in Doubly-Selective Fading Channels
Junruo Zhang, Yuriy V. Zakharov, University of York

Session WA1a Source Localization and Imaging

Chair: *Yimin Zhang*

WA1a-1 DOA Estimation for UWB Time Hopping Impulse Radio Multiple Access System 8:30 AM
Joni Polili Lie, Nanyang Technological University; Chong Meng Samson See, DSO National Laboratories; Boon Poh Ng, Nanyang Technological University

WA1a-2 Some new techniques of localization of spatially distributed sources 8:55 AM
Yide Wang, Ahmed Zoubir, IREENA/Polytech Nantes

WA1a-3 Time Reversal Synthetic Aperture Radar Imaging in Multipath 9:20 AM
Yuanwei Jin, José M. F. Moura, Carnegie Mellon University; Michael T. Mulford, Raytheon Corporation; Nicholas O'Donoghue, Carnegie Mellon University; Alphonso A. Samuel, Raytheon Corporation

WA1a-4 A Novel Approach for Moving Multi-Target Localization Using Dual Frequency Radars and Time-Frequency Distributions 9:45 AM
Yimin Zhang, Moeness Amin, Fauzia Ahmad, Villanova University

Session WA1b Adaptive Radar Signal Processing

Chair: *Braham Himed*

WA1b-1 A Modulation Based Approach to Wideband-STAP 10:30 AM
Ke Yong Li, C & P Technologies, Inc.; Unnikrishna Pillai, Polytechnic University; Peter Zulch, Michael Callahan, Air Force Research Laboratory

WA1b-2 Knowledge-Aided Space-Time Adaptive Processing 10:55 AM
Xumin Zhu, Jian Li, University of Florida; Petre Stoica, Uppsala University; Joseph Guerci, SAIC

WA1b-3 Multi-Channel and Two-Dimensional Fast Parametric Algorithms and Performance for Adaptive Radar 11:20 AM
Larry Marple, Oregon State University; Muralidhar Rangaswamy, Phil (Cpt.) Corbell, Air Force Research Laboratory

WA1b-4 Doppler resilience, Reed-Muller Codes, and Complementary Waveforms 11:45 AM
Sofia Suvorova, Stephen Howard, Bill Moran, Robert Calderbank, Ali Pezeshki, University of Melbourne
BREAK 10:10 AM

WA1b-5 A Notion of Diversity Order in Distributed Radar Networks 12:10 PM
Rani Daher, Raviraj Adve, University of Toronto; Michael Wicks, Air Force Research Laboratory

Session WA2a New Optical Techniques for Cancer Detection and Therapy

Chair: *Brian Helmke*

WA2a-1 Estimation of Cell Statistics on a Cell Manifold for High Content Screening with Automated Cell Segmentation 8:30 AM
Saurav Basu, Scott T. Acton, University of Virginia

WA2a-2 High-Resolution Optical Tracking to Identify Adhesive Events in Vitro 8:55 AM
Brian Schmidt, Christopher Paschall, William Guilford, Michael Lawrence, University of Virginia

WA2a-3 Quantum dot as potential energy mediator for Radiation therapy 9:20 AM
Wensha Yang, Brian Helmke, Paul Read, Jun Mi, Ke Sheng, Stan Benedict, James Lerner, University of Virginia

WA2a-4 Biological applications of carbon nanotubes 9:45 AM
Hongjie Dai, Stanford University

Session WA2b Signal Processing Techniques in Advanced MR Imaging

Chair: *Wm. Scott Hoge*

WA2b-1 Fast Regularized Parallel Imaging in an MR Image-Guided Therapy Application 10:30 AM
W. Scott Hoge, Renxin Chu, Ferenc Jolesz, Brigham and Women's Hospital; Eigil Samset, University of Oslo

WA2b-2 Strategies for parallel spatiotemporal constrained reconstruction of dynamic MRI 10:55 AM
Edward Dibella, Ganesh Adluru, Eugene Kholmovski, University of Utah

WA2b-3 Joint Estimation of Coil Sensitivity and Image in Parallel Magnetic Resonance Imaging 11:20 AM
Leslie Ying, Jinhua Sheng, University of Wisconsin-Milwaukee

WA2b-4 A Bayesian Framework For The Reconstruction of Accelerated MRI Using Graph Cuts 11:45 AM
Ashish Raj, University of California, San Francisco; Gurmeet Singh, Ramin Zabih, Cornell University

BREAK 10:10 AM

WA2b-5 Reconstruction of MRI Data Using Sparse Matrix Inverses 12:10 PM
Alexey Samsonov, Walter Block, Aaron Field, University of Wisconsin

Session WA3a Wireless Optical Communications

Chair: *Maité Brandt-Pearce*

WA3a-1 Coding and Signal Processing for Free Space Optical MIMO Communications Using Optical Amplification 8:30 AM
Maité Brandt-Pearce, Qianling Cao, University of Virginia

WA3a-2 Relay-Assisted Free-Space Optical Communication 8:55 AM
Majid Safari, Murat Uysal, University of Waterloo

WA3a-3 Adaptive Optical Wireless OFDM System with Controlled Asymmetric Clipping 9:20 AM
Jelena Grubor, Volker Jungnickel, Klaus-Dieter Langer, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut

WA3a-4 LDPC-Coded Optical Communication over the Atmospheric Turbulence Channel 9:45 AM
Ivan Djordjevic, University of Arizona

Session WA3b Iterative Receiver Processing in Communication Systems

Chair: *Luc Vandendorpe*

- WA3b-1 Iterative carrier synchronization techniques in transmission systems protected by a powerful error-correcting code 10:30 AM
Nele Noels, Marc Moeneclaey, Ghent University
- WA3b-2 Gradient Decoding Revisited 10:55 AM
Phillip Regalia, Catholic University of America
- WA3b-3 Predictions on turbo-decoding performance for adaptive channel coding 11:20 AM
Harold H. Sneessens, Xavier Jaspas, Cédric Herzet, Luc Vandendorpe, Université catholique de Louvain
- WA3b-4 Improved iterative decoding of LDPC codes with linear complexity 11:45 AM
Giuseppe Caire, Sang Kim, University of Southern California

Session WA4 Feedback in MIMO Systems

Chair: *Kiran Mukkavilli & Ashutosh Sabharwal*

- WA4-1 Performance Analysis of Finite Rate Feedback MISO Systems in the Presence of Estimation Errors and Delay 8:30 AM
Yogananda Isukapalli, Bhaskar Rao, University of California, San Diego
- WA4-2 Capacity Theorems for Channels with Designable Feedback 8:55 AM
Youjian Liu, University of Colorado, Boulder
- WA4-3 Two-Way Fading Channels: Training Protocol and Diversity-Multiplexing Performance 9:20 AM
Christopher Steger, Ashutosh Sabharwal, Rice University
- WA4-4 Design and Analysis of Two-Way Limited Feedback Beamforming Systems 9:45 AM
Chun Kin Au Yeung, David Love, Purdue University
- BREAK 10:10 AM
- WA4-5 Rate and Power Adaptation Over Slow Fading Channels With Noisy Quantized Feedback 10:30 AM
Siavash Ekbatani, Farzad Etemadi, Hamid Jafarkhani, University of California, Irvine
- WA4-6 Transmit Beamforming with Reduced Feedback Information in OFDM Based Wireless Systems 10:55 AM
Seung-Hyeon Yang, Jae-Yun Ko, Yong-Hwan Lee, Seoul National University
- WA4-7 Optimized CSI Feedback for Robust THP Design 11:20 AM
Paula Castro, University of A Coruna; Michael Joham, TU Munich; Luis Castedo, University of A Coruna; Wolfgang Utschick, TU Munich

- WA4-8 A Score-Based Scheduler for Spatial Transmission Mode Selection 11:45 AM
Malte Schellmann, Technical University of Berlin; Lars Thiele, Volker Jungnickel, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut; Thomas Haustein, Nokia Siemens Networks

Session WA5a Programmable and Reconfigurable Architectures

Chair: *Joseph Cavallaro*

- WA5a-1 FPGA Realization of Peak-to-Average Power Ratio Reduction Techniques for OFDM Wireless Systems 8:30 AM
Chris Dick, Xilinx Inc.
- WA5a-2 Scalable Architecture of MIMO Multi-carrier CDMA System on Programmable Logic 8:55 AM
Yuanbin Guo, Nokia Siemens Networks
- WA5a-3 Design Space Exploration for Real-Time Reconfigurable Computing 9:20 AM
Martin Holzer, Bastian Knerr, Markus Rupp, Vienna University of Technology
- WA5a-4 Matrix Decomposition Architecture for MIMO Systems: Design and Implementation Trade-offs 9:45 AM
Christoph Studer, Patrick Blösch, Peter Friedli, Andreas Burg, ETH Zurich
- BREAK 10:10 AM
- WA5a-5 A Software Defined Radio Reconfigurable Testbed for Cognitive Radio using BEE2 10:30 AM
Susan Mellers, Hayden So, Brian Richards, Robert W. Brodersen, University of California, Berkeley

Session WA5b SOC Architectures

Chair: *Neil Burgess*

- WA5b-1 Using Secret-Protecting SP architecture in SOCs 10:30 AM
Ruby Lee, Jeffrey Dwoskin, Michael Wang, Princeton University
- WA5b-2 A programmable SOC processor for image detection applications 10:55 AM
Mahesh Kumarasamy, Roger Woods, Queen's University Belfast
- WA5b-3 A Combined Pipelined and Microcoded Floating-Point Solution for Multimedia Targeted to Mobile SoC Applications 11:20 AM
Chris N. Hinds, David R. Lutz, ARM Inc.
- WA5b-4 A Fault-Tolerant Complex FIR Filter for SoC Communication Technologies 11:45 AM
Ian Steiner, Graham Jullien, ATIPS Laboratories

Session WA6a Radar Signal Processing

Chair: *Michael Wicks*

- WA6a-1 RF Tomography 9:30 AM
Michael Wicks, Air Force Research Laboratory
- WA6a-2 Knowledge-Aided, Physics-Based Signal Processing For Next-Generation Radar 8:55 AM
William L. Melvin, Gregory Showman, Georgia Tech Research Institute
- WA6a-3 Auxiliary-Vector RADAR on MCARM data 9:20 AM
Dimitris Pados, State University of New York at Buffalo; George Karystinos, Technical University of Crete; Stella Batalama, State University of New York at Buffalo; John Matyjas, Air Force Research Laboratory, IFGC
- WA6a-4 A Net Track Solution to Pose-Angular Tracking of Maneuvering Targets in Clutter with HRR Radar 9:45 AM
Chun Yang, Sigtem Technology, Inc.; Erik Blasch, Air Force Research Laboratory; Wendy Garber, Richard Mitchell, ATK Mission Research

Session WA6b Signal Processing in Cognitive Radio Networks

Chair: *Stella Batalama*

- WA6b-1 Throughput Enhancing Cooperative Spectrum Sensing Strategies for Cognitive Radios 10:30 AM
Kyounghwan Lee, Aylin Yener, Pennsylvania State University
- WA6b-2 Training Sequence Design for Wireless Cognitive Communication Systems in Frequency-Selective Fading 10:55 AM
Peter Parker, Patrick Mitran, Harvard University; Daniel Bliss, MIT Lincoln Laboratory; Vahid Tarokh, Harvard University
- WA6b-3 Cognitive Medium Access in WLAN Bands: A Real-Time Testbed 11:20 AM
Stefan Geirhofer, John Z. Sun, Lang Tong, Cornell University; Brian M. Sadler, Army Research Laboratory
- WA6b-4 Distributed spatio-temporal spectrum sensing: An experimental study 11:45 AM
Chandrasekharan Raman, Janani Kalyanam, Ivan Seskar, Narayan Mandayam, WINLAB, Rutgers University
- BREAK 10:10 AM
- WA6b-5 Distributed and Collaborative Primary Signal Feature Estimation for Cognitive Radios under Communication Constraints 12:10 PM
Yan Li, Zhenlei Shen, Shalinee Kishore, Lehigh University; Aylin Yener, Pennsylvania State University

Session WA7a Speech and Audio Coding

Chair: *Andreas Spanias*

- WA7a-1 Rate-Distortion Optimal Modeling and Quantization Using a Perceptually Relevant Distortion Measure 8:30 AM
W. Bastiaan Kleijn, Royal Institute of Technology (KTH); Richard Heusdens, Delft University of Technology
- WA7a-2 A Reduced Rate Ultra Low Delay Audio Coder using VQ 8:55 AM
Stefan Wabnik, Gerald Schuller, Fraunhofer IDMT
- WA7a-3 Perceptual Audio Coding - A History and Timeline 9:20 AM
James Johnston, Microsoft Corporation
- WA7a-4 Packet Loss Concealment for Predictive Speech Coding Based on Extrapolation of Speech Waveform 9:45 AM
Juin-Hwey Chen, Broadcom Corporation

Session WA7b Wavelet and Filter Bank Methods for Image and Video Processing

Chair: *Bryan Usevitch*

- WA7b-1 Directional Filter Banks for Wavelet Decomposition of Images Based on the Radon Transform 10:30 AM
Ricardo von Borries, Cristiano Jacques Miosso, Crishtian Potes, University of Texas at El Paso
- WA7b-2 Separable, Complex, Biorthogonal, Two-channel, Perfect Reconstruction Filter Banks and Wavelets 10:55 AM
Bryan Usevitch, University of Texas at El Paso
- WA7b-3 Lifting-based Compression of Images in Bayer Array Format 11:20 AM
Jesus Enriquez, Jose Gerardo Rosiles, Sergio Cabrera, University of Texas at El Paso
- WA7b-4 Equivalence of symmetric pre-extension and lifting step extension in the JPEG 2000 standard 11:45 AM
Christopher Brislawn, Los Alamos National Lab
- BREAK 10:10 AM
- WA7b-5 Curvature Scale Space Application to Distorted Object Recognition and Classification 12:10 PM
Natan Jacobson, Truong Nguyen, University of California, San Diego; Frank Crosby, Naval Surface Warfare Center - Panama City

Session WA8a1 Wireless Networks

- WA8a1-1 Decentralized Random Parity Forwarding in Multi-Source Wireless Relay Networks
Sang Wu Kim, Iowa State University

- WA8a1-2 Optimal Power Allocation for Cooperative Beamforming in Wireless Ad Hoc Networks
Sharon Betz, Princeton University; Athina Petropulu, Drexel University; H. Vincent Poor, Princeton University
- WA8a1-3 A Reliability Study of RFID Technology in a Fading Channel
Weilian Su, Kyle M Beilke, Tri T. Ha, Naval Postgraduate School
- WA8a1-4 Closed Form Throughput of a Slotted ALOHA Network Using LMMSE Receiver
Hemabh Shekhar, Mary Ann Ingram, ArrayComm

Session WA8a2 Sensor Networks

- WA8a2-1 Distributed Estimation with Channel Estimation Error over Orthogonal Fading Channels
Habib Senol, Kadir Has University; Cihan Tepedelenlioglu, Arizona State University
- WA8a2-2 Asymptotic Analysis of Distributed Estimation over Fading Multiple Access Channels
Cihan Tepedelenlioglu, Mahesh Banavar, Andreas Spanias, Arizona State University
- WA8a2-3 Multi-Hop Progressive Decentralized Estimation of Deterministic Vector in Wireless Sensor Networks
Yi Huang, Yingbo Hua, University of California, Riverside
- WA8a2-4 Hypothesis Testing and Iterative WLS Minimization for WSN Localization under LOS/NLOS Conditions
Giuseppe Destino, Davide Macagano, Giuseppe Abreu, University of Oulu
- WA8a2-5 Distributed Detection for Wireless Sensor Networks with a Hybrid Serial-Parallel Configuration
Pu Wang, Hongbin Li, Stevens Institute of Technology
- WA8a2-6 Power Efficient Distributed Estimation in a Bandlimited Wireless Sensor Network
Thakshila Wimalajeewa, Sudharman K. Jayaweera, University of New Mexico

Session WA8a3 Radar and Array Signal Processing

- WA8a3-1 Multibeam Amplitude Comparison Problems for MIMO Radar's Angle Measurement
Qian He, Zishu He, University of Electronic Science and Technology of China
- WA8a3-2 Waveform Design for MIMO Radar with Space-Time Constraints
Benjamin Friedlander, University of California, Santa Cruz
- WA8a3-3 Robust Phase-Only Nulling for Adaptive and Non-adaptive Phased Arrays
Donald Day, Johns Hopkins University
- WA8a3-4 Matched detector and estimator with signature uncertainty.
Jean Jacques Fuchs, IRISA / Univ. de Rennes 1
- WA8a3-5 Derivation and analysis of an adaptive detector with enhanced mismatched signals rejection capabilities
Francesco Bandiera, Università del Salento; Olivier Besson, ENSICA; Danilo Orlando, Giuseppe Ricci, Università del Salento

- WA8a3-6 Morphological Component Analysis and STAP
Hedley Morris, Monica De Pass, Claremont Graduate University
- WA8a3-7 Wavefront Adaptive Raymode Processing for Over-the-Horizon HF Radar Clutter Mitigation
Oguz Kazanci, Igal Bilik, Jeffrey Krolik, Duke University
- WA8a3-8 Effect of Bandwidth on Wideband-STAP Performance
Unnikrishna Pillai, Polytechnic University; Ke Yong Li, C & P Technologies, Inc.; Joseph Guerci, Guerci Consulting
- WA8a3-9 Comparison of Radar-Based Human Detection Techniques
Sevgi Zubeyde Gurbuz, William L. Melvin, Douglas B. Williams, Georgia Institute of Technology
- WA8a3-10 Time Reversal Transmission in MIMO Radar
Yuanwei Jin, José M. F. Moura, Carnegie Mellon University
- WA8a3-11 Coherent Change Detection Statistics for Multiple Polarization SAR Images
Rajesh Sharma, Northrop Grumman Corporation
- WA8a3-12 Cramér-Rao Bound and Maximum Likelihood Estimation of Covariance Matrices with Non-Homogeneous Snapshots
Olivier Besson, Stéphanie Bidon, ENSICA; Jean-Yves Tourneret, IRIT/ENSEEIH
- WA8a3-13 A Closed Form Expression For The Number Of Costas Arrays of Arbitrary Order
Bill Correll, Jr, General Dynamics
- WA8a3-14 Sparsity Constraint on DOA Estimation with Uncalibrated Antenna Array
Ying Zhang, Qun Wan, Anming Huang, University of Electronic Science and Technology of China
- WA8a3-15 Compressive Sensing for GPR Imaging
Ali Cafer Gurbuz, James H. McClellan, Waymond R. Scott, Georgia Institute of Technology
- WA8a3-16 A Graph-Theoretic Approach for Constraining Floor Plan Estimation from Radar Measurements
Jeffrey Krolik, Granger Hickman, Duke University
- WA8a3-17 Decentralized Collaborative Uplink Beamforming With Robustness Against Channel Mismatches
Amr El-Keyi, Benoit Champagne, McGill University
- WA8a3-18 Semi-Blind Adaptive Beamforming for Cyclostationary Signals: A Kalman Filtering Approach
Amr El-Keyi, Benoit Champagne, McGill University
- WA8a3-19 A Novel Constrained Adaptive Algorithm Using the Conjugate Gradient Method for Smart Antennas
Lei Wang, Rodrigo de Lamare, University of York
- WA8a3-20 On the Detection of Footsteps Based on Acoustic and Seismic Sensing
Satish Iyengar, Pramod Varshney, Syracuse University
- WA8a3-21 Signatures of Walking Humans from Passive and Active Acoustic Data using Time-Varying Vector Autoregressions
Jingdong Chen, Melanie Rudoy, Charles Rohrs, Massachusetts Institute of Technology

Author List

NAME	SESSION	NAME	SESSION	NAME	SESSION
Aach, Til.....	TP2-6	Au Yeung, Chun Kin.....	WA4-4	Blasch, Erik.....	WA6a-4
Aazhang, Behnaam.....	TA8b3-3	Auli-Llinas, Francesc.....	TA7-5	Bliss, Daniel.....	WA6b-2
Abraham, Anish.....	TP2-2	Aviyente, Selin.....	TA5-5	Bliss, Daniel.....	MP1-8
Abramovich, Yuri.....	TP4a-3	Badr, Maya.....	TA4-3	Block, Walter.....	WA2b-5
Abreu, Giuseppe.....	WA8a2-4	Bae, Kitaek.....	TP8b2-6	Blösch, Patrick.....	WA5a-4
Abрудan, Traian.....	MP8b1-22	Bae, Soo Hyun.....	TP7a-4	Boccardi, Federico.....	MP4-4
Acemoglu, Daron.....	TP6a-3	Bai, Shuzhong.....	MA1b-4	Boche, Holger.....	TP8a2-7
Acharya, Joydeep.....	TA3-7	Bajaj, Chandrajit.....	TP2-8	Boche, Holger.....	MP3-7
Acton, Scott T.....	TA2-1	Bajard, Jean-Claude.....	MP5-6	Boche, Holger.....	TA8b2-2
Acton, Scott T.....	WA2a-1	Bakanoglu, Kagan.....	MP8a1-4	Boecking, Alfred.....	TP2-6
Adluru, Ganesh.....	WA2b-2	Baker, Christoper.....	MP1-6	Boldt, Brandon.....	TA8a1-3
Adve, Raviraj.....	WA1b-5	Banavar, Mahesh.....	WA8a2-2	Bonnet, Christian.....	TP3-8
Adve, Raviraj.....	TP8a3-8	Bandiera, Francesco.....	WA8a3-5	Bouman, Charles.....	TA2-6
Affes, Sofiène.....	MP8b1-7	Baran, Thomas.....	TA8b1-2	Bourguiba, Anissa.....	TA2-7
Agarwal, Rajiv.....	MP3-8	Bar-Ness, Yeheskel.....	TA3-5	Boyd, Stephen.....	TA8b3-8
Agarwal, Rajiv.....	MA6b-5	Baron, Dror.....	TA8b2-5	Boyd, Stephen.....	TA8b1-19
Agrawal, Rajeev.....	MP3-4	Basu, Saurav.....	WA2a-1	Brandt-Pearce, Maite.....	WA3a-1
Aguilar-Ponce, Ruth.....	TA8a1-4	Batalama, Stella.....	WA6a-3	Brislawn, Christopher.....	WA7b-4
Ahlén, Anders.....	TP4b-3	Batra, Anuj.....	TP3-4	Broadston, Robert.....	TA8a1-2
Ahmad, Fauzia.....	WA1a-4	Baxter, Paul.....	TP4b-1	Brodersen, Robert W.....	WA5a-5
Ahmed, Mohammed.....	MP8a4-8	Bayoumi, Magdy.....	MP2b-3	Brooks, Dana.....	TA2-4
Ahn, Ilkoo.....	MP8a3-2	Bayoumi, Magdy.....	TA8a1-4	Brown, Donald.....	TA4-8
Aittomäki, Tuomas.....	MP1-2	Beilke, Kyle M.....	WA8a1-3	Brown, Donald.....	TP8b3-5
Akansu, Ali.....	TA8b3-1	Belfiore, Jean-Claude.....	TP8a1-8	Brown, Matthew.....	MP2a-4
Alay, Ozgu.....	TA4-5	Belfiore, Jean-Claude.....	TA4-3	Bucholtz, Frank.....	MP8b1-6
Aldroubi, Akram.....	MP2a-3	Bell, Andre.....	TP2-6	Budge, Scott.....	TA8a1-3
Almasganj, Farshad.....	MP8a4-5	Bell, Kristine.....	TP1-7	Budge, Scott.....	TA7-8
Alouini, Mohamed-Slim.....	TA8a3-8	Bellili, Faouzi.....	MP8b1-7	Bugallo, Monica F.....	TA1-4
Alqallaf, Abdullah.....	MA2b-3	Bement, Matthew T.....	TA5-2	Burg, Andreas.....	WA5a-4
Altamura, Paolo.....	TA8a1-10	Benedict, Stan.....	WA2a-3	Burgess, Neil.....	MP5-7
Altinok, Alphan.....	TP2-7	Bengtsson, Mats.....	TP8b1-7	Burrus, C. Sidney.....	TA8a1-13
Ambroze, Marcel.....	MP8a4-8	Bensimon, Aaron.....	TP2-1	Butt, Naveed Razaq.....	TP4b-4
Amin, Moeness.....	WA1a-4	Bergmans, Jan W. M.....	TP8b2-3	Cabrera, Sergio.....	WA7b-3
Amin, Moeness.....	MP8b1-25	Berkowitz, Philip.....	MP8a4-13	Cai, Yunlong.....	TA8a3-4
Amiri, Kiarash.....	TA8a2-9	Berlemont, Sylvain.....	TP2-1	Caire, Giuseppe.....	TP8a2-3
Ammerman, John.....	MA5b-2	Berr, Stuart S.....	TA2-2	Caire, Giuseppe.....	WA3b-4
An, Chan-ho.....	TP8a1-10	Berry, Randall.....	MP3-4	Caire, Giuseppe.....	MP4-1
Ananthasubramaniam, Bharath.....	MP6-8	Besson, Olivier.....	WA8a3-12	Calderbank, Robert.....	WA1b-4
Anderson, John B.....	TA7-6	Besson, Olivier.....	WA8a3-5	Caldwell, James.....	TA8a2-2
Andersson, Tomas.....	MP2b-4	Betz, Sharon.....	WA8a1-2	Callahan, Michael.....	WA1b-1
Andrade, Hugo A.....	MA5b-2	Bhagawat, Pankaj.....	TA8a1-11	Cao, Qianling.....	WA3a-1
Andrews, Jeffrey.....	MA6b-4	Bhaskaran, Sibi Raj.....	TP6b-1	Cardarilli, Gian Carlo.....	TP5-7
Andrews, Jeffrey.....	MP4-2	Bhatnagar, Manav R.....	MP8a2-4	Cardarilli, Gian Carlo.....	TA8a1-10
Andrews, Jeffrey.....	TP8b1-3	Bhatnagar, Manav R.....	MP8a2-3	Cardarilli, Gian Carlo.....	TP5-4
Annavaajjala, Ramesh.....	TA8b2-3	Bhattacharyya, Shuvra.....	MA5b-3	Carrault, Guy.....	TA2-7
Anouar, Hicham.....	TP3-8	Bidigare, Patrick.....	MP8a3-4	Castedo, Luis.....	WA4-7
Antikainen, Juho.....	TA8a1-1	Bidon, Stéphanie.....	WA8a3-12	Castro, Paula.....	WA4-7
Antikainen, Juho.....	TP8a1-11	Bliik, Igal.....	WA8a3-7	Cavallaro, Joseph R.....	TP8a1-11
Arkin, Adam.....	MA7b-3	Bineshian, Daryoosh.....	MP8b2-3	Cavallaro, Joseph R.....	TA4-6
Arora, Raman.....	MP8a4-4	Bineshian, Mohammad Reza.....	MP8b2-3	Cavallaro, Joseph R.....	TP8b3-8
Ascheid, Gerd.....	TA8a2-1	Björnemo, Erik.....	TP4b-3	Cavallaro, Joseph R.....	TA8a2-9
				Chai, Chin Choy.....	MP8a1-3
				Chakraborty, Debejyo.....	TA5-3
				Chambers, Jonathon.....	TP4b-1
				Champagne, Benoit.....	WA8a3-17
				Champagne, Benoit.....	WA8a3-18
				Chan, Wai-Yip (Geoffrey).....	MP8a3-5
				Chan, Yee Sin.....	TA7-2
				Chandrasekhar, Preethi.....	MP2b-1
				Chao, Jerry.....	TP2-2
				Charafeddine, Mohamad.....	TA8b3-6
				Chatterjee, Priyam.....	MP8a3-9
				Chattopadhyay, Aditi.....	TA5-3
				Chaudhari, Qasim.....	TP8b3-2
				Chen, Biao.....	TA6-8
				Chen, Biao.....	TP8b1-6
				Chen, Chun-Yang.....	MP1-5
				Chen, Francine.....	TP7b-1
				Chen, Hao.....	TA1-1
				Chen, Hao.....	MP8a3-8
				Chen, Jingdong.....	WA8a3-21
				Chen, Juin-Hwey.....	WA7a-4
				Chen, Li.....	MA1b-2
				Chen, Runhua.....	TP8b1-3
				Chen, Xiang.....	MA1b-1
				Cheng, Qi.....	TA1-5
				Cheong, Hye-Yeon.....	TA7-3
				Chi, Chong-Yung.....	MA1b-1
				Chi, Chong-Yung.....	MA1b-2
				Chiueh, Tzi-Dar.....	TA8a2-1
				Chizhik, Dmitry.....	TA8a3-1
				Choi, Gwan.....	TA8a1-11
				Chopra, Aditya.....	MA5b-4
				Chowdhury, Debasish.....	TP8a2-6
				Choyke, Peter L.....	MA1b-2
				Christensen, Mads.....	MP8b1-17
				Christensen, Mads.....	MP8a4-9
				Christensen, Mads.....	MP8b1-13
				Chu, Renxin.....	WA2b-1
				Chung, Kil Woo.....	TP1-5
				Cioffi, John.....	MA3b-1
				Cioffi, John.....	TA8a2-4
				Cioffi, John.....	TP8b1-10
				Cioffi, John.....	MP3-8
				Cioffi, John.....	MA6b-5
				Cochran, Douglas.....	TA5-3
				Collins, Glenn.....	TP8a3-4
				Comeau, William.....	TP1-2
				Cooper, Tom.....	TP4b-1
				Corbell, Phil (Cpt.).....	WA1b-3
				Correll, Jr, Bill.....	WA8a3-13
				Cosman, Pamela.....	TA7-2
				Cottais, Emmanuel.....	TA8b1-14
				Cottatellucci, Laura.....	MA3b-3
				Cox, Henry.....	TP1-1
				Creusere, Charles.....	MP8a4-11
				Crosby, Frank.....	WA7b-5
				da Costa, Joao Paulo C. L.....	MP7-3

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Daas, Adel	TP8a3-6	Ekbatani, Siavash	WA4-5	Fuchs, Jean Jacques	MP8a3-6	harris, fredric	TA8b1-13
Daher, Rani	WA1b-5	Eksler, Vaclav	TP7a-2	Gadhiok, Manik	TP8b3-8	harris, fredric	TA8b1-15
Dai, Hongjie	WA2a-4	El-Ddin, Imad Muhi	MP8a4-12	Gambini, Jonathan	TA3-5	Harrison, Mark	MP4-3
Damiano, Edward	TP2-4	Elgamel, Mohamed	MP2b-3	Ganti, Radha Krishna	MA6b-3	Hassibi, Arjang	MA7b-5
Dammann, Armin	TP8a2-2	El-Keyi, Amr	WA8a3-17	Garber, Wendy	WA6a-4	Hassibi, Babak	MP8b2-1
Dane, Gokce	MP2b-1	El-Keyi, Amr	WA8a3-18	Gastpar, Michael	MP6-3	Hassibi, Babak	MA7b-5
Darsena, Donatella	TP8b2-1	Elloumi Oueslati, Afef	MP8b2-4	Gastpar, Michael	TA6-3	Hassibi, Babak	TP8a1-14
Das, Samarjit	TA1-6	Elouze, Noureddine	MP8b2-4	Gaur, Sudhanshu	TP8b1-2	Hassibi, Babak	MP8b1-11
Das, Santanu	TA5-6	Enriquez, Jesus	WA7b-3	Ge, Hongya	TP1-4	Haustein, Thomas	WA4-8
Dash, Debashis	TA4-2	Eom, Seungyeon	TA8a3-6	Ge, Weiyang	MP3-3	Havlicek, Joseph	TA8a1-8
Datta, Aniruddha	MA2b-1	Epstein, Frederick H	TA2-2	Geirhofer, Stefan	WA6b-3	Haykin, Simon	MP7-8
Daudet, Laurent	TA8b1-10	Ercegovac, Milos D	MP5-2	Geiser, Bernd	TP7a-1	He, Qian	WA8a3-1
Davis, Michael	MP8a3-4	Eriksson, Jan	MP8b1-22	Gelli, Giacinto	TP8b2-1	He, Ting	TP4a-2
Day, Donald	WA8a3-3	Erkip, Elza	TA4-1	Ghodrati, Alireza	TA2-4	He, Xiang	TA6-6
de Almeida, André	MP8a2-2	Erkip, Elza	TA4-5	Giannakis, Georgios	MP6-6	He, Zishu	WA8a3-1
de Lacerda, Raul	TP8a1-12	Erkip, Elza	MP8a1-4	Giannakis, Georgios	MP8b1-16	Healy Jr., Dennis	MP2a-3
de Lamare, Rodrigo	TA8a3-4	Eryilmaz, Atilla	TP6a-2	Gibson, Jerry	TA7-6	Heath, Robert	MP4-2
de Lamare, Rodrigo	WA8a3-19	Eryilmaz, Atilla	MP3-5	Gibson, Jerry	MP8a4-1	Heath, Robert	TP8b1-3
de Lamare, Rodrigo	MP7-5	Eryilmaz, Atilla	TA6-5	Gibson, Jerry	TP7b-4	Helmke, Brian	WA2a-3
De Lathauwer, Lieven	MP7-1	Esli, Celal	TA4-7	Gilliam, Andrew	TA2-1	Hemaraj, Yashwanth	MA5b-3
De Lathauwer, Lieven	MP7-2	Etemadi, Farzad	WA4-5	Gjendemsjo, Anders	TA8a3-8	Hernandez, Alfredo	TA2-7
De Pass, Monica	WA8a3-6	Evans, Benjamin	TP8a3-4	Gkionis, Charalampos	MP8b1-8	Herzet, Cédric	WA3b-3
De Vos, Maarten	MP7-2	Evans, Brian	MP8b1-12	Glossner, John	TA8a1-5	Heusdens, Richard	WA7a-1
Debbah, Merouane	TP8a1-7	Evans, Brian	MA5b-4	Godtman, Susanne	TA8a2-1	Hickman, Granger	WA8a3-16
Debbah, Merouane	TP8a1-12	Falk, Tiago H.	MP8a3-5	Goldsmith, Andrea	TA8a3-1	Hinds, Chris N.	WA5b-3
Debbah, Mérouane	MA3b-3	Fang, Jun	TP4a-4	Goldsmith, Andrea	TA6-7	Hinds, Chris N.	MP5-8
Debbah, Mérouane	MA3b-5	Farrar, Charles R.	TA5-2	Gomadam, Krishna	TA6-1	Hjørungnes, Are	MP8a2-4
Debbah, Mérouane	MA3b-4	Farsiu, Sina	MP2a-2	Gonzales Navarro, Sonya	MP5-5	Hjørungnes, Are	MP8a2-3
DeBrunner, Linda	TP5-6	Favier, Gérard	MP8a2-2	Gottin, Bertrand	TA8b1-17	Ho, Chin Keong	TP8b2-3
DeBrunner, Linda	TP5-3	Favier, Gérard	MP8b1-15	Gregoratti, David	MA3b-2	Hoge, W. Scott	WA2b-1
DeBrunner, Linda	TA8b1-4	Favier, Gérard	MP8b1-10	Grubor, Jelena	WA3a-3	Holzer, Martin	WA5a-3
DeBrunner, Linda	TA8a1-8	Fernandes, Carlos Estêvão	MP8b1-10	Gudmundson, Erik	MP7-6	Hong, Sangjin	TP8a3-5
DeBrunner, Victor	TA5-4	Feuvrie, Bruno	TA8b1-14	Guerci, Joseph	WA1b-2	Hossack, John A.	TA2-2
DeBrunner, Victor	TP8a3-3	Field, Aaron	WA2b-5	Guerci, Joseph	WA8a3-8	Howard, Charles D.	TP5-6
DeBrunner, Victor	TA8b1-4	Fiore, Paul	TP8a1-2	Guilford, William	WA2a-2	Howard, Stephen	WA1b-4
DeBrunner, Victor	TP5-6	Fisher III, John W.	MP6-1	Guillaud, Maxime	TP8a1-12	Hu, Bin	TP8b1-8
Del Galdo, Giovanni	MP7-3	Fitz, Michael	TA8a2-5	Guillemot, Christine	MP8a3-6	Hua, Yingbo	WA8a2-3
Del Re, Andrea	TP5-7	Fleury, Bernard	MP8b1-18	Guillemot, Christine	MP8a4-7	Huang, Anming	WA8a3-14
Del Re, Andrea	TA8a1-10	Fleury, Bernard Henri	TP8b1-8	Gunduz, Deniz	MP8a1-4	Huang, Dong-Yan	TP8a3-2
Derriso, Mark	TA5-1	Forsythe, Keith	TP8a1-2	Gunther, Jacob	TA1-7	Huang, Howard	MA4b-1
DeSimio, Martin P.	TA5-1	Forsythe, Keith	MP1-8	Gunther, Jake	TP8b3-4	Huang, Howard	MP4-4
Destino, Giuseppe	WA8a2-4	Foschini, Gerard	MA4b-1	Guo, Yingchun	MP8a3-5	Huang, Jianhua	MA7b-2
DeYoung, Marcus	MP8b1-12	Foschini, Gerard	TA8a3-1	Guo, Yuanbin	WA5a-2	Huang, Jianwei	MP3-4
Dibella, Edward	WA2b-2	Foster, Joanne	TP4b-1	Gurbuz, Ali Cafer	WA8a3-15	Huang, Kaibin	MP4-2
Dick, Chris	WA5a-1	Fox, James	TA8a1-13	Gurbuz, Sevgi Zubeyde	WA8a3-9	Huang, Yi	WA8a2-3
Ding, Heping	TP8a3-1	Franceschetti, Massimo	MA6b-2	Gustafsson, Oscar	TA8b1-4	Huang, Yih-Fang	TP8b3-6
Djordjevic, Ivan	WA3a-4	Francis, Bruce	TP8a3-8	Ha, Tri T.	WA8a1-3	Hunger, Raphael	MP4-7
Djuric, Petar M.	TA1-4	French, Brent A.	TA2-2	Haardt, Martin	MP7-3	Huttunen, Anu	TA3-2
Doufexi, Angela	TA8a2-6	Friedlander, Benjamin	MP1-4	Hadeif, Mahmoud	TP8a3-6	Hwang, Chan Soo	TP8b1-10
Dougherty, Edward	MA2b-1	Friedlander, Benjamin	TP8a1-1	Haenggi, Martin	MA6b-3	Hwang, Sungjun	TA8a2-3
Du, Lin	TP4a-1	Friedlander, Benjamin	WA8a3-2	Han, Kyung-Nam	MP5-4	Ibing, Andreas	MP3-7
Duan, Chunjie	TA8a1-11	Friedlander, Benjamin	MP8a2-1	Harjani, Ramesh	TP3-5	Ikehara, Masaaki	TA8b1-1
Dupret, Antoine	MP8a3-3	Friedli, Peter	WA5a-4	Harmanci, A. Ozgun	MA2b-2	Ilitis, Ronald	TP8b2-4
Dwoskin, Jeffrey	WA5b-1	Fuchs, Jean Jacques	WA8a3-4	Harp, Jeffrey	TP8a3-4	Ingram, Mary Ann	TP8b1-2

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Ingram, Mary Ann	WA8a1-4	Juntti, Markku	TP8a1-11	Krolik, Jeffrey	MP1-7	Liang, Kuo-ching	MA2b-5
Ioana, Cornel	TA8b1-17	Kachenoura, Amar	TA2-7	Krolik, Jeffrey	WA8a3-7	Liang, Yifan	TA8a3-1
Irwin, Mary Jane	TP5-2	Kalyanam, Janani	WA6b-4	Krongold, Brian	TP8b2-9	Liang, Ying Chang	MP8a1-3
Ismail, Yasser	MP2b-3	Kandadai, Srivatsan	MP8a4-11	Krusienski, Dean	TP5-5	Liang, Yongqing	TA7-8
Isukapalli, Yogananda	WA4-1	Kang, Taehyuk	TP8b2-4	Kubichek, Bob	TA8b1-11	Lie, Joni Polli	WA1a-1
Iyengar, Satish	WA8a3-20	Kar, Soumya	MP8b1-23	Kumarasamy, Mahesh	WA5b-2	Lim, Zhining	TP5-8
Jacobson, Natan	WA7b-5	Karkootei, Marjan	TA4-6	Kurian, Ajeesh P.	TA1-2	Lin, Freeman	TA1-3
Jacques Miosso, Cristiano	WA7b-1	Karystinos, George	WA6a-3	Kwon, Hyuck	MP8a1-1	Lingam, Srinivas	TP3-4
Jafar, Syed	TA6-1	Karystinos, George	TP8b2-10	Kwon, Hyuck	TP8b1-1	Liu, Bin	TA8b2-4
Jafar, Syed	MA6b-1	Kazanci, Oguz	WA8a3-7	Kyriacou, Efthyououlos	TA2-3	Liu, Daniel	TA8a2-5
Jafarkhani, Hamid	WA4-5	Keely, Andrew	TA2-4	Lachiri, Zied	MP8b2-4	Liu, Hang	TA7-4
Jaganathan, Madhan	TP8b1-5	Kelley, Brian	MA5b-1	Lai, Hung	TP1-1	Liu, Hui	TA8b2-4
Jagannathan, Sumanth	TP8b1-10	Ketseoglou, Thomas	MP3-6	Lai, Hung	TP1-7	Liu, Hui	MP8a1-2
Jakimoski, Goce	TA7-1	Khan, Usman	MP8b1-9	Lai, I-Wei	TA8a2-1	Liu, Jie	MP7-7
Jakobsson, Andreas	MP7-6	Khayam, Syed Ali	TA8b3-4	Lajnef, Khaled	MP8a4-7	Liu, Ju	MA1b-4
Jakobsson, Andreas	TP4b-4	Kholmovski, Eugene	WA2b-2	Lambotharan, Sangarapillai	TP8b1-9	Liu, Qiong	TP7b-1
Jakobsson, Andreas	MP8b1-17	Kim, Changick	MP8a3-2	Lampe, Lutz	TA3-6	Liu, Wei	TA6-8
Jakobsson, Andreas	MP8b1-13	Kim, Changick	MP8a3-1	Land, Ingmar	TP8b1-8	Liu, Ying	TA7-7
Jang, Seung-hoon	TP8a1-10	Kim, Dong Ku	TA8a3-6	Lang, Tomas	TA8a1-6	Liu, Youjian	WA4-2
Jaspar, Xavier	WA3b-3	Kim, Dong Ku	TP8a1-10	Langer, Klaus-Dieter	WA3a-3	Liu, Youjian	TP6b-4
Javidi, Tara	TP6a-4	Kim, Dong Sik	MP8a4-10	Lanka, Narasimha	TP3-5	Liu, Zhengye	TA7-4
Javidi, Tara	MP3-1	Kim, Kyeong Jin	MP4-6	Larimore, Michael	TP8a3-4	Loizou, Christos P.	TA2-3
Jayaweera, Sudharman K.	WA8a2-6	Kim, Sang	WA3b-4	Larner, James	WA2a-3	Loke, Yong	TA8a1-2
Jelinek, Milan	TP7a-2	Kim, Sang Wu	WA8a1-1	Larsson, Erik G.	TA3-3	Love, David	WA4-4
Jenkins, Christipher	TA8a1-5	Kim, Seung-Jean	TA8b3-8	Lawrence, Michael	WA2a-2	Lowdermilk, Wade	TA8b1-15
Jenkins, Kenneth	TP5-5	Kim, Seung-Jean	TA8b1-19	Lee, Kiryung	MP8a4-10	Lozano, Angel	MA4b-1
Jenn, David	TA8a1-2	Kim, Wonjun	MP8a3-1	Lee, Kyoungwan	WA6b-1	Lunden, Jarmo	TA3-2
Jensen, Søren Holdt	MP8b1-17	Kim, Yoonsun	MP8a1-2	Lee, Ruby	WA5b-1	Lutz, David	MP5-8
Jensen, Søren Holdt	MP8a4-9	Kimber, Don	TP7b-1	Lee, Yong-Hwan	TP8b1-4	Lutz, David R.	WA5b-3
Jensen, Søren Holdt	MP8b1-13	Kirsteins, Ivars P.	TP1-4	Lee, Yong-Hwan	WA4-6	Ma'ayan, Avi	MA7b-1
Jiang, Yi	MA4b-2	Kishore, Shalinee	WA6b-5	Lee, Yusung	TP8b3-7	Macagano, Davide	WA8a2-4
Jiang, Yi	TP8a1-9	Kleijn, W. Bastiaan	TP7a-3	Lefebvre, Roch	TP7a-2	MacLeod, Rob	TA2-4
Jin, Mingwu	TA2-5	Kleijn, W. Bastiaan	WA7a-1	Lefevre, Vincent	MP5-3	Madhow, Upamanyu	MP6-8
Jin, Yuanwei	WA1a-3	Kleijn, W. Bastiaan	MP8a4-3	Lei, Cao	TP8a2-5	Mahalanobis, Abhijit	MP8a4-13
Jin, Yuanwei	WA8a3-10	Klein, Andrew	TP8a3-4	Lemonds, Carl	MP5-1	Mallaender, Laurence	MA4b-1
Jindal, Nihar	MA6b-4	Klein, Jeffrey D.	MP8b1-1	Lemrye, Catherine	TP7a-2	Majjigi, Vinay	MP3-8
Jindal, Nihar	MP4-1	Knerr, Bastian	WA5a-3	Leung, Henry	TA1-2	Makki, Behrooz	MP8a4-6
Joham, Michael	MP4-7	Knopp, Raymond	TP3-8	Leveque, Olivier	MA3b-1	Maleki, Arian	MP8a4-2
Joham, Michael	WA4-7	Ko, Jae-Yun	WA4-6	Lewis, Terry	TP3-3	Malipatil, Amaresh	TP8b3-6
Johansson, Håkan	TA8b1-4	Kobayashi, Mari	MA4b-4	Lexa, Michael	TA8b1-18	Malloy, Neil	TP1-6
Johansson, Mathias	TP4b-3	Kobayashi, Mari	TP8a2-3	Ley, Klaus	TP2-5	Mamidi, Suman	TA8a1-5
Johnson, Ben	TP4a-3	Koch, Laura	TP8a3-8	Li, Hongbin	WA8a2-5	Mandayam, Narayan	WA6b-4
Johnson, Don	TA8b1-18	Koduri, Sirisha	TA8a3-2	Li, Hongbin	TP1-5	Manjunath, B. S.	TP2-7
Johnson, Jr., C. Richard	TP8a3-4	Kohandani, Farzaneh	TP8b2-5	Li, Hongbin	TP4a-4	Marbach, Peter	TP6a-2
Johnston, James	WA7a-3	Koivunen, Visa	MP8b1-20	Li, Hongxiang	TA8b2-4	Maric, Ivana	TA6-7
Jolesz, Ferenc	WA2b-1	Koivunen, Visa	MP8b1-22	Li, Jian	MP1-1	Marple, Larry	WA1b-3
Jones, Douglas L.	MP6-7	Koivunen, Visa	TA3-2	Li, Jian	WA1b-2	Martini, Anna	MA6b-2
Jones, Douglas L.	TP5-1	Koivunen, Visa	MP1-2	Li, Jian	TP4a-1	Marvasti, Farrokh	MP8a3-7
Jullien, Graham	WA5b-4	Kornerup, Peter	MP5-3	Li, Ke Yong	WA1b-1	Massa, Andrea	MA6b-2
Jungnickel, Volker	WA3a-3	Kosut, Oliver	MP6-4	Li, Ke Yong	WA8a3-8	Mateos, Gonzalo	MP6-6
Jungnickel, Volker	MA4b-3	Kovvali, Narayan	TA5-3	Li, Min	MP2b-1	Mathews, David	MA2b-2
Jungnickel, Volker	WA4-8	Kramer, Christopher M.	TA2-2	Li, Minyue	TP7a-3	Mathias, Hervé	MP8a3-3
Juntti, Markku	TA8a1-1	Kramer, Gerhard	TA6-7	Li, Yan	WA6b-5	Matyjas, John	WA6a-3
Juntti, Markku	TP8a2-1	Krolik, Jeffrey	WA8a3-16	Liang, Faming	MA7b-2	May, Elebeoba	MA7b-4

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
McClellan, James H.....	WA8a3-15	Mortazavi, Yousof.....	MA5b-4	Ober, Raimund.....	TP2-2	Petropulu, Athina.....	WA8a1-2
McEachen, John.....	MP8b1-8	Moshnyaga, Vasily.....	TA8a1-7	O'Donoghue, Nicholas.....	WA1a-3	Pezeshki, Ali.....	TP4b-2
McKellips, Andrew.....	TP8a1-2	Mota, João Cesar.....	MP8a2-2	Oechtering, Tobias J.....	TP6b-3	Pezeshki, Ali.....	WA1b-4
McWhirter, John.....	TP4b-1	Mota, João Cesar.....	MP8b1-10	Oh, Dong-Chan.....	TP8b1-4	Phillips, Braden.....	TP5-8
Mecca, Vito.....	MP1-7	Moura, José M. F.....	MP8b1-9	Oien, Geir Egil.....	TA8a3-8	Pickard, John.....	TP2-5
Mecklenbräuker, Wolfgang.....	TA8b1-8	Moura, José M. F.....	MP8b1-23	Olivo-Marin, Jean-Christophe.....	TP2-1	Piechocki, Robert J.....	TA8a2-6
Medard, Muriel.....	MP3-5	Moura, José M. F.....	WA1a-3	Olson, Alex.....	MA5b-4	Pillai, Unnikrishna.....	WA1b-1
Medard, Muriel.....	TA6-5	Moura, José M. F.....	WA8a3-10	Olson, Steven E.....	TA5-1	Pillai, Unnikrishna.....	WA8a3-8
Medda, Alessio.....	TA5-4	Moura Mota, João Cesar.....	MP8b1-15	Oppenheim, Alan.....	TA8b1-5	Piton, Romain Henri Joseph.....	TP8b1-8
Mellers, Susan.....	WA5a-5	Mousavi, Seyed Mohammad Ebrahim.....	MP8b2-3	Oppenheim, Alan.....	TA8b1-2	Plass, Simon.....	TA8a3-3
Melvin, William L.....	WA6a-2	Moustakas, Aris.....	MA3b-5	Orlando, Danilo.....	WA8a3-5	Plishker, William.....	MA5b-3
Melvin, William L.....	WA8a3-9	Mroueh, Lina.....	TP8a1-8	Ortega, Antonio.....	TA7-3	Polprasert, Chantri.....	TA8b3-5
Meng, Chen.....	TA8b1-16	Msechu, Eric J.....	MP8b1-16	Osadciw, Lisa.....	TP8a3-7	Poluri, Radha.....	TA8b3-1
Meng, Chen.....	TP8b2-7	Mueller, Karsten.....	TP7b-2	Ottersten, Björn.....	TP8b1-7	Poon, Ada.....	TA8b3-7
Menouni Hayar, Aawatif.....	TA3-4	Mukherjee, Amitav.....	MP8a1-1	Ottersten, Björn.....	MP4-8	Poor, H. Vincent.....	WA8a1-2
Menouni Hayar, Aawatif.....	TP3-8	Mukherjee, Amitav.....	TP8b1-1	Oyman, Ozgur.....	TA4-4	Poor, H. Vincent.....	TA3-2
Merkle, Philipp.....	TP7b-2	Mulford, Michael T.....	WA1a-3	Ozdaglar, Asuman.....	TP6a-3	Popescu, Dimitrie.....	TA8a3-2
Merli, Filippo.....	MA4b-5	Muller, Jean-Michel.....	MP5-3	Ozdaglar, Asuman.....	TP6a-2	Popescu, Dimitrie.....	TA8a3-5
Mestre, Xavier.....	MA3b-2	Müller, Ralf.....	MA3b-3	Ozdaglar, Asuman.....	MP3-5	Porée, Fabienne.....	TA2-7
Mestre, Xavier.....	MA4b-4	Murillo, Sergio E.....	TA2-3	Ozdaglar, Asuman.....	TA6-5	Potes, Cristhian.....	WA7b-1
Mestre, Xavier.....	TP1-8	Murray, Victor.....	TA2-3	Ozerov, Alexey.....	MP8a4-3	Powers, Edward.....	TP8b2-6
Meyer-Ebrecht, Dietrich.....	TP2-6	Musacchio, John.....	TP6a-1	Ozil, Ipek.....	TP8b3-5	Prabhat, Prashant.....	TP2-2
Meyr, Heinrich.....	TA8a2-1	Mutapcic, Almir.....	TA8b3-8	Pados, Dimitris.....	WA6a-3	Prasad, Narayan.....	TP8b2-2
Mi, Jun.....	WA2a-3	Mutti, Carlo.....	TP8a2-2	Pal, Ranadip.....	MA2b-1	Price, Jennifer.....	TP6a-4
Michalowicz, Joseph V.....	MP8b1-6	Myllylä, Markus.....	TA8a1-1	Palomar, Daniel.....	MA4b-2	Qi, Jiqun.....	TP8a2-5
Michel, Thomas.....	MP4-5	Myllylä, Markus.....	TP8a1-11	Palomar, Daniel.....	MP4-8	Qiu, Anqi.....	MP2a-1
Michels, James.....	TA1-1	Nadakuditi, Raj Rao.....	MP8b1-26	Pande, Tarkesh.....	TP3-4	Qu, Dongdong.....	TA8b1-12
Michels, James.....	MP8a3-8	Naderkhani, Farnoosh.....	MP8a4-5	Pandharipande, Ashish.....	TP8b2-3	Qu, Shouxing.....	TP8b2-5
Middleton, Gareth.....	TA8b3-3	Namgoong, Won.....	TP3-2	Papailiopoulos, Dimitris.....	TP8b2-10	Qu, Shouxing.....	TP8a1-3
Mietzner, Jan.....	TA3-6	Nannarelli, Alberto.....	TP5-7	Papakonstantinou, Konstantinos.....	TP8a1-7	Quinn, Barry.....	MP8b1-4
Milanfar, Peyman.....	MP2a-2	Nannarelli, Alberto.....	TP5-4	Papalexidis, Nikolaos.....	MP8b1-8	Quinn, Barry.....	MP8b1-14
Milanfar, Peyman.....	MP8a3-9	Nannarelli, Alberto.....	TP5-4	Papandreou-Suppappola, Antonia.....	TA5-3	Quinnell, Eric.....	MP5-1
Miller, Michael.....	MP2a-1	Naraghi-Pour, Mort.....	MP8b1-21	Papandreou-Suppappola, Antonia.....	TA8b1-17	Radha, Hayder.....	TA8b3-4
Milstein, Laurence.....	TA7-2	Narasimhan, Ravi.....	TP8b1-5	Papanicolaou, George.....	TA8b2-1	Radosavljevic, Predrag.....	TA8a2-9
Mino, Koohyar.....	MP2b-2	Narayanan, Sriram.....	MP6-7	ParandehGheibi, Ali.....	MP3-5	Raghavan, Vasanthan.....	TA8b3-7
Mitchell, Riohard.....	WA6a-4	Narayanan, Sriram.....	TP5-1	ParandehGheibi, Ali.....	TA6-5	Raj, Ashish.....	WA2b-4
Mitra, Urbashi.....	TP3-1	Narayanan, Vijaykrishnan.....	TP5-2	Parente, Mario.....	TA8b1-19	Ram, Sripad.....	TP2-2
Mitran, Patrick.....	WA6b-2	Naucér, Peter.....	MP8b1-19	Park, Chester.....	TA8a1-12	Raman, Chandrasekharan.....	WA6b-4
Moeneclaey, Marc.....	WA3b-1	Nedich, Angelia.....	MP8b1-3	Park, Gyuhae.....	TA5-2	Ramprashad, Sean.....	TP7a-4
Mohammadi, Arash.....	MP8a4-5	Ng, Boon Poh.....	WA1a-1	Park, Hyuncheol.....	TP8b3-7	Ramstad, Tor.....	TA8a2-7
Mohammadi, Arash.....	MP8b2-2	Nguyen, Truong.....	TA8b1-7	Park, Jonghun.....	TP8b3-7	Rangaswamy, Muralidhar.....	TA8b1-11
Mollova, Guergana.....	TA8b1-8	Nguyen, Truong.....	MP2b-1	Park, Sin-Chong.....	TA8a1-12	Rangaswamy, Muralidhar.....	TA1-3
Mollova, Guergana.....	TA8b1-9	Nguyen, Truong.....	MP2b-2	Parker, Peter.....	WA6b-2	Rangaswamy, Muralidhar.....	WA1b-3
Mondal, Bishwarup.....	MP4-3	Nguyen, Truong.....	WA7b-5	Parthasarathy, Harish.....	MP8a4-4	Rao, Bhaskar.....	WA4-1
Montes de Oca, Jose A.....	TA5-1	Nichols, Jonathan.....	MP8b1-6	Parvaresh, Farzad.....	MP8b2-1	Ratnarajah, Tharmalingam.....	TP8a1-4
Moon, Todd.....	TP8b3-4	Nicolaides, Andrew.....	TA2-3	Paschall, Christopher.....	WA2a-2	Rawat, Danda.....	TA8a3-5
Moon, Todd.....	TA1-7	Nicopoulos, Chrysostomos.....	TP5-2	Pattichis, Costantinos S.....	TA2-3	Ray, Nilanjan.....	MP2a-4
Moradi, Mohammad Hasan.....	MP8b2-2	Nion, Dimitri.....	MP7-1	Pattichis, Marios S.....	TA2-3	Re, Marco.....	TP5-7
Moradi, Mohammad Hasan.....	MP8b2-3	Niu, Xiaofeng.....	TA2-5	Paulraj, Arogyaswami.....	TA8b2-1	Re, Marco.....	TA8a1-10
Moran, Bill.....	WA1b-4	Noels, Nele.....	WA3b-1	Paulraj, Arogyaswami.....	TA8b3-6	Re, Marco.....	TP5-4
Moreau, Eric.....	MP7-4	Noori Hosseini, Mona.....	MP8a4-6	Pearlman, William.....	TA7-7	Read, Paul.....	WA2a-3
Morris, Hedley.....	MP8a4-12	Nuggehalli, Pavan.....	TP6a-4	Pereira, Stephanie.....	TA8b2-1	Reda Taha, Mahmoud.....	TA5-7
Morris, Hedley.....	WA8a3-6	Nystrom, Marcus.....	TA7-6	Petersen, Newton.....	MA5b-2	Redif, Soydan.....	TP4b-1
Morrow, Philip.....	TP2-3					Regalia, Phillip.....	WA3b-2

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Rekaya-Ben Othman, Ghaya	TP8a1-8	Savery, Michele	TP2-4	Shynk, John J.	TA8b1-10	Suvorova, Sofia	WA1b-4
Rekaya-Ben Othman, Ghaya	TA4-3	Scharf, Louis	TP4b-2	Siddiqui, Hasib	TA2-6	Suzuki, Junichiro	MP8b1-5
Rezk, Meriam	MP8a2-1	Schellmann, Malte	MA4b-3	Silvén, Olli	TA8a1-1	Swartzlander, Earl	MP5-1
Rhadakrishnan, Chandra	TP5-5	Schellmann, Malte	WA4-8	Silverstein, Jack	MP8b1-26	Swindlehurst, A. Lee	TA8b2-3
Ribeiro, Alejandro	MP8b1-16	Schizas, Ioannis	MP6-6	Simeone, Osvaldo	TP8b3-3	Szabo, Zsolt	MA1b-2
Ricci, Giuseppe	WA8a3-5	Schmidt, Brian	WA2a-2	Simeone, Osvaldo	TA3-5	Ta, Chi Hieu	TP8a2-8
Richards, Brian	WA5a-5	Schnitter, Philip	TA8a2-3	Sims, Richard	MP8a4-13	Ta, Minh	TP8a3-3
Richter, Andreas	MP8b1-20	Schnurr, Clemens	TP6b-3	Singer, Andrew	TA8b2-5	Tabrikian, Joseph	MP1-3
Rieffel, Eleanor	TP7b-1	Schober, Robert	TA3-6	Singh, Gurmeet	WA2b-4	Tadmor, Gilead	TA2-4
Ritcey, James	TP8a1-13	Scholtz, Robert	TP3-3	Sirkeci-Mergen, Birsen	TA6-3	Taherkhani, Aboozar	MP8a4-5
Ritcey, James	TA8b3-5	Schreier, Peter J.	MP8b1-2	Sitton, Gary	TA8a1-13	Taherkhani, Aboozar	MP8b2-2
Robinson, Dirk	MP2a-2	Schreier, Peter J.	TA8b1-3	Skaf, Joelle	TA8b1-19	Takala, Jarmo	TA8a1-1
Rodwell, Mark J. W.	MP6-8	Schroeder, Jim	TA8b1-11	Skoglund, Mikael	TA8a2-7	Takeda, Hiroyuki	MP8a3-9
Roemer, Florian	MP7-3	Schuller, Gerald	WA7a-2	Skoglund, Mikael	TP6b-2	Talavage, Thomas	TA2-6
Rohde, Gustavo	MP2a-3	Schulte, Michael	TA8a1-5	Skoglund, Mikael	MP2b-4	Tanabe, Masahiro	MP8b1-5
Rohde, Gustavo	MP8b1-6	Schulte, Michael	MP5-5	Slock, Dirk	TP8a1-7	Tanaka, Yuichi	TA8b1-1
Rohrs, Charles	WA8a3-21	Schwartz, Galina	TP6a-1	Smolic, Aljoscha	TP7b-2	Tandon, Ravi	TA6-2
Rolim Fernandes, Carlos Alexandre	MP8b1-15	Scott, Waymond R.	WA8a3-15	Sneessens, Harold H.	WA3b-3	Taparuggsanagorn, Attaphongse	MP8b1-18
Rose, Kenneth	TP2-7	Scutari, Gesualdo	TP8b3-3	So, Hayden	WA5a-5	Tarczynski, Andrzej	TA8b1-12
Rosiles, Jose Gerardo	WA7b-3	See, Chong Meng Samson	WA1a-1	Soderstrand, Michael	TA8a1-14	Tarokh, Vahid	WA6b-2
Roumeliotis, Stergios I.	MP8b1-16	Seethaler, Dominik	TP8a1-5	Söderström, Torsten	MP8b1-19	Tayem, Nizar	MP8b1-21
Roumy, Aline	MP8a4-7	Sejdicinovic, Dino	TA8a2-6	Song, Lingyang	MP8a2-3	Tecpanecatli-Xihuitl, Jose	TA8a1-4
Rouquette-Léveil, Stéphanie	TP8a1-8	Sellathurai, Mathini	TP8a1-4	Song, Lingyang	MP8a2-4	Tenca, Alex	MP5-4
Rubio, Francisco	TP1-8	Sen, Mainak	MA5b-3	Spanias, Andreas	WA8a2-2	Tepedelenioglu, Cihan	WA8a2-1
Rudoy, Melanie	WA8a3-21	Sen Gupta, Ananya	TA8b2-5	Spencer, Nicholas	TP4a-3	Tepedelenioglu, Cihan	WA8a2-2
Rupp, Markus	WA5a-3	Senk, Vojin	TA8a2-6	Sridharan, Sriram	TA6-4	Tewfik, Ahmed	MA2b-3
Rushdi, Ahmad	TP8b2-8	Senol, Habib	WA8a2-1	Srikant, Rayadurgam	TP6a-3	Tewfik, Ahmed	TP3-6
Rushdi, Ahmad	TP8b2-7	Seo, Hae Jong	MP8a3-9	Srinivasan, S.Ram	MP8b1-3	Thiele, Lars	MA4b-3
Ryan, Øyvind	MA3b-4	Seo, Munkyo	MP6-8	Srinivasan, Shivratna	TP8a2-4	Thiele, Lars	WA4-8
Sabharwal, Ashutosh	WA4-3	Serpedin, Erchin	TP8b3-2	Srinivasan, Suresh	TP5-2	Thobaben, Ragnar	TA3-3
Sabharwal, Ashutosh	TA4-2	Serra-Sagrista, Joan	TA7-5	Srivastava, Ashok	TA5-6	Thomas, Timothy	MP4-3
Sadati, Nasser	MP8a4-6	Servetto, Sergio	MP6-2	Stanczak, Slawomir	TP6b-3	Tian, Songlin	TA8b3-2
Sadler, Brian M.	WA6b-3	Seskar, Ivan	WA6b-4	Stanczak, Slawomir	TA8b2-2	Tomlinson, Martin	MP8a4-8
Saetzler, Kurt	TP2-3	Seyedsalehi, Seyed Ali	MP8a4-6	Steger, Christopher	WA4-3	Tong, Lang	WA6b-3
Safari, Majid	WA3a-2	Seyyedsalehi, Seyyed Ali	MP8b2-2	Stein, Alan	TA7-4	Tong, Lang	MP6-4
Safari, Majid	TA8a2-8	Shah, Mubarak	MP8a4-13	Steiner, Christoph	TP3-7	Tong, Lang	TP4a-2
Saha, Baidya	MP2a-4	Shah, Syed Faisal	TP3-6	Steiner, Ian	WA5b-4	Tong, Mathew	TA8a1-2
Sahin, Onur	TA4-1	Shakkottai, Srinivas	TP6a-3	Stéphenne, Alex	MP8b1-7	Tooler, Clive Cheong	MA1b-5
Sahmoudi, Mohamed	MP8b1-25	Shamai (Shitz), Shlomo	TA6-7	Stites, Matthew	TA1-7	Tourneret, Jean-Yves	WA8a3-12
Sahraeian, Sayed Mohammad Ebrahim	MP8a3-7	Shamai (Shitz), Shlomo	MP4-1	Stoica, Petre	MP1-1	Tran, David	MP5-4
Salmela, Perttu	TA8a1-1	Shanbhag, Naresh R.	TP5-1	Stoica, Petre	WA1b-2	Tran, Trac	TA8b1-6
Salmi, Jussi	MP8b1-20	Shang, Xiaohu	TP8b1-6	Stoica, Petre	TP4a-1	Treichler, John	TP8a3-4
Sammartino, Pier Francesco	MP1-6	Sharma, Gaurav	MA2b-2	Stojnic, Mihailo	TP8a1-14	Treitl, Sven	TA8a1-13
Samoilov, Michael	MA7b-3	Sharma, Gaurav	MP8b1-24	Strangas, Elias	TA5-5	Trivellato, Matteo	MP4-4
Sampaio, Leonardo	TP8a1-12	Sharma, Rajesh	WA8a3-11	Studer, Christoph	WA5a-4	Troesch, Florian	TA8a3-7
Samset, Eigil	WA2b-1	Sharma, Vimal	TP8b1-9	Sturm, Bob L.	TA8b1-10	Trump, Tonu	TA1-8
Samsonov, Alexey	WA2b-5	Shekhar, Hemabh	WA8a1-4	Su, Borching	TP8b3-1	Tsen, Charles	MP5-5
Samuel, Alphonso A.	WA1a-3	Shekhar, Raj	MA5b-3	Su, Weilian	WA8a1-3	Tufts, Donald	TP1-2
Sand, Stephan	TA8a3-3	Shen, Zhenlei	WA6b-5	Subbalakshmi, K. P.	TA7-1	Tummala, Murali	TA8a2-2
Sand, Stephan	TP8a2-2	Sheng, Jinhua	WA2b-3	Subramanian, Vijay	MP3-4	Tummala, Murali	MP8b1-8
Sanei, Saeid	MA1b-5	Sheng, Ke	WA2a-3	Sun, Guoxia	MA1b-4	Tuqan, Jamal	TP8b2-8
Sarma, Ashwin	TP1-2	Shetty, Niranjan	MP8a4-1	Sun, John Z.	WA6b-3	Tuqan, Jamal	TA8b1-16
		Shoji, Yoshikazu	MP8b1-5	Sutin, Alexander	TP1-5	Tuqan, Jamal	TP8b2-7
		Showman, Gregory	WA6a-2				

NAME	SESSION	NAME	SESSION	NAME	SESSION	NAME	SESSION
Ulukus, Sennur.....	TA6-2	Wang, Michael.....	WA5b-1	Yang, Hong-Chuan.....	TA8a3-8	Zhu, Xumin.....	WA1b-2
Unnikrishnan, Jayakrishnan.....	MP6-5	Wang, Pu.....	WA8a2-5	Yang, Hongming.....	TP8b2-3	Zirwas, Wolfgang.....	MA4b-3
Usevitch, Bryan.....	WA7b-2	Wang, Xiaodong.....	MA2b-5	Yang, Janghoon.....	TA8a3-6	Zoubir, Ahmed.....	WA1a-2
Utschick, Wolfgang.....	MP4-7	Wang, Xiaodong.....	TP8b2-2	Yang, Janghoon.....	TP8a1-10	Zulch, Peter.....	WA1b-1
Utschick, Wolfgang.....	WA4-7	Wang, Xiaodong.....	MA4b-5	Yang, Jie.....	TA4-8	Zwicker, Matthias.....	TP7b-3
Uysal, Murat.....	WA3a-2	Wang, Yao.....	TA4-5	Yang, Jingnong.....	TA8a2-4	Zymnis, Argyris.....	TA8b1-19
Uysal, Murat.....	TA8a2-8	Wang, Yide.....	WA1a-2	Yang, Seung-Hyeon.....	WA4-6		
Vaidyanathan, P. P.....	MA2b-4	Wang, Yide.....	TA8b1-14	Yang, Sheng.....	TA4-3		
Vaidyanathan, P. P.....	MP1-5	Wang, Yue.....	MA1b-2	Yang, Wensha.....	WA2a-3		
Vaidyanathan, P. P.....	TA8b1-7	Wang, Yunhua.....	TA8a1-8	Yang, Yongyi.....	TA2-5		
Vaidyanathan, P. P.....	TP8b3-1	Ward, E. Sally.....	TP2-2	Yao, Sha.....	TP6b-2		
Valenzuela, Reinaldo.....	MA4b-1	Waters, Deric.....	TP3-4	Yao, Yan.....	MA1b-1		
Valenzuela, Reinaldo.....	TA8a3-1	Weber, Steven.....	MA6b-4	Yates, Roy.....	TA3-7		
Valenzuela, Sivarama.....	MA4b-1	Wei, Dennis.....	TA8b1-5	Yeh, Edmund.....	MP3-2		
Van Huffel, Sabine.....	MP7-2	Weiss, Stephan.....	TP8a3-6	Yeh, Shu-Ping.....	MA3b-1		
Van Paesschen, Wim.....	MP7-2	Weiss, Stephan.....	TP8a2-8	Yener, Aylin.....	WA6b-1		
Van Veen, Barry.....	TP4b-2	Wernersson, Niklas.....	TA8a2-7	Yener, Aylin.....	TA6-6		
Vandendorpe, Luc.....	WA3b-3	White, George.....	MP7-7	Yener, Aylin.....	WA6b-5		
Varanasi, Mahesh.....	MA4b-2	Wicks, Michael.....	WA6a-1	Yeo, Eng Choon.....	TA8a1-2		
Varanasi, Mahesh.....	TP8a1-9	Wicks, Michael.....	WA1b-5	Yin, Xuefeng.....	MP8b1-18		
Varanasi, Mahesh.....	TP8a2-4	Wiczanski, Marcin.....	TA8b2-2	Ying, Leslie.....	WA2b-3		
Varanasi, Mahesh.....	TP8a1-15	Wiegand, Thomas.....	TP7b-2	Ylloinas, Jari.....	TP8a2-1		
Varatkar, Girish V.....	TP5-1	Wieselthier, Jeffrey E.....	MP3-3	Ylitalo, Juha.....	MP8b1-18		
Varshney, Pramod.....	TA1-1	Wilcox, Dave.....	TP8a1-4	Yoon, Byung-Jun.....	MA2b-4		
Varshney, Pramod.....	MP8a3-8	Williams, Douglas B.....	WA8a3-9	Yoshida, Taichi.....	TA8b1-1		
Varshney, Pramod.....	TA1-5	Williams, Douglas B.....	TA8a2-4	Yu, Chao.....	MP8b1-24		
Varshney, Pramod.....	WA8a3-20	Williams, Gustavious.....	TA1-7	Yue, Xiaodong.....	TA8b3-2		
Vary, Peter.....	TP7a-1	Williams, Jason L.....	MP6-1	Yukawa, Masahiro.....	MP7-5		
Vaswani, Namrata.....	TA1-6	Wilson, Stephen.....	TA8a1-9	Zabih, Ramin.....	WA2b-4		
Veeramachaneni, Kalyan.....	TP8a3-7	Wimalajeewa, Thakshila.....	WA8a2-6	Zaidi, Sajjad.....	TA5-5		
Veeravalli, Venu.....	TA8b3-7	Wittneben, Armin.....	TA4-7	Zakharov, Yuriy V.....	TP8b3-9		
Veeravalli, Venugopal.....	MP6-5	Wittneben, Armin.....	TP3-7	Zakharov, Yuriy V.....	MP7-7		
Veeravalli, Venugopal.....	MP8b1-3	Wittneben, Armin.....	TA8a3-7	Zarubica, Radivoje.....	TA8a1-9		
Venkatachari, Harish.....	TP8a1-15	Womack, Jim.....	TP8b2-5	Zhan, Pengcheng.....	TA8b2-3		
Venturino, Luca.....	TP8b2-2	Wong, Chon-Wa.....	MA1b-1	Zhang, Jianzhong.....	MP4-6		
Verdant, Arnaud.....	MP8a3-3	Wong, Ian.....	MA5b-4	Zhang, Jun.....	TP8b1-3		
Verde, Francesco.....	TP8b2-1	Woods, Roger.....	WA5b-2	Zhang, Jun.....	TA8b1-17		
Vikalo, Haris.....	MP8b2-1	Wu, Hsiao-Chun.....	MA1b-3	Zhang, Junruo.....	TP8b3-9		
Vikalo, Haris.....	MA7b-5	Wu, Mingquan.....	TA7-4	Zhang, Junshan.....	MP3-3		
Villard, Patrick.....	MP8a3-3	Wu, Zhenyu.....	TA7-4	Zhang, Rui.....	MP8a1-3		
Vishwanath, Siram.....	TA6-4	Wuebben, Dirk.....	TP8a1-5	Zhang, Rui.....	TP3-1		
Vitetta, Giorgio.....	MA4b-5	Wunder, Gerhard.....	MP4-5	Zhang, Xi.....	MP4-8		
von Borries, Ricardo.....	WA7b-1	Xi, Yufang.....	MP3-2	Zhang, Yimin.....	WA1a-4		
von Wrycza, Peter.....	TP8b1-7	Xu, Dongxin.....	MA1b-3	Zhang, Yimin.....	MP8b1-25		
Vouras, Peter.....	TA8b1-6	Xu, Luzhou.....	MP1-1	Zhang, Ying.....	WA8a3-14		
Vucic, Nikola.....	TP8a2-7	Xu, Weiyu.....	MP8b1-11	Zhang, Zejie.....	TA1-4		
Vukobratovic, Dejan.....	TA8a2-6	Xu, Xin.....	MP8a4-8	Zhao, Mingbo.....	MP6-2		
Wabnik, Stefan.....	WA7a-2	Xue, Feng.....	TA4-4	Zhao, Qing.....	TA3-1		
Wage, Kathleen.....	TP1-3	Yahampath, Pradeepa.....	MP8a2-3	Zhao, Xueyuan.....	TP8a1-6		
Wahlberg, Patrik.....	TA8b1-3	Yamada, Hiroyoshi.....	MP8b1-5	Zhou, Dayong.....	TA8a1-8		
Walker, Owens.....	MP8b1-8	Yamada, Isao.....	MP7-5	Zhou, Hao.....	TP8b3-6		
Walrand, Jean.....	TP6a-1	Yamaguchi, Yoshio.....	MP8b1-5	Zhou, Shidong.....	MA1b-1		
Wan, Qun.....	WA8a3-14	Yanamandra, Aditya.....	TP5-2	Zhou, Wenfan.....	TA5-3		
Wang, Lei.....	WA8a3-19	Yang, Chun.....	WA6a-4	Zhou, Yi.....	TP8b3-2		

Notes

Notes

Notes

