FORTY-FIFTH ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS AND COMPUTERS



November 6–9, 2011 Asilomar Hotel and Conference Grounds

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FORTY-FIFTH ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS & COMPUTERS

Organized in cooperation with

Naval Postgraduate School Monterey, California

ATK SPACE SYSTEMS Monterey, California

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Welcome from the General Chairman

Dr. Jim Schroeder, Harris Corporation, Melbourne, Florida

I am very pleased to welcome you to the 45th Asilomar Conference on Signals, Systems and Computers. I personally attended my first Asilomar Conference in 1988, October 31st to November 2nd; the Asilomar State Park's beautiful and relaxing venue, complemented by the intellectual stimulation provided by the conference attendees, has kept me returning year after year.

A continuing strength of Asilomar is the wide cross section of researchers who come from traditional academic institutions, including esteemed faculty and their graduate students, Federal R&D Laboratories and Corporate Research centers, enables an unmatched synergy unique to Asilomar.

This year's Sydney Parker Memorial Lecture will be presented by Prof. Jose Principe, University of Florida, Gainesville, titled, "Machine Learning in Signal Processing." Jose Principe is a Distinguished Professor of Electrical and Computer Engineering and Biomedical Engineering at the University of Florida where he teaches advanced signal processing, machine learning and artificial neural networks (ANNs) modeling. He is the BellSouth Professor and the Founder and Director of the University of Florida Computational NeuroEngineering Laboratory (CNEL) www.cnel.ufl.edu . His primary area of interest is the processing of time varying signals with adaptive neural models. The CNEL Lab has been studying signal and pattern recognition principles based on information theoretic criteria (entropy and mutual information).

The popular and successful student paper contest will be chaired this year by Dr. Oscar Gustafsson, Linkoping University, Sweden. The student finalists have been selected to present their papers to the panel judges Sunday afternoon. The top three paper winners will receive their awards at the beginning of the conference plenary session.

It is a privilege and honor to serve as this year's General Chair. I personally invite you to enjoy Asilomar to its fullest from the Plenary Talk, Student Poster Sessions, oral and poster sessions and colorful sunsets on the beach.

Jim Schroeder, Harris Corporation, May 2011

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2011 Asilomar Conference Session Schedule

Sunday Afternoon, November 6, 2011

2:00 - 7:00 PM Registration — Main Lodge

4:00 - 6:30 PM Student Paper Contest — Merrill Hall

7:00 - 9:00 PM Welcoming Dessert Reception — Merrill Hall

Monday Morning, November 7, 2011

7:30 - 9:00 AM Breakfast – Crocker Dining Hall

8:00 AM - 6:00 PM Registration

8:15 - 9:45 AM MA1a — Conference Welcome and Plenary Session

9:45 - 10:15 AM Coffee Social

10:15 AM - 12:00 PM MORNING SESSIONS

MA1b Energy Efficient MIMO Communication

MA2b Delay Sensitive Communication

MA3b Graphical Models in Signal Processing I

MA4b In-network Computation

MA5b Medical Imaging

MA6b Collaborative Beamforming

MA7b Multivariate and Multimodal Analysis of Brain Signals

MA8b1 Computer Arithmetic I (Poster)

MA8b2 Physical Layer Security I (Poster)

MA8b3 Physical Layer Security II (Poster)

MA8b4 Image, Video Coding and Analysis (Poster)

MA8b5 Adaptive Systems and Spectral Estimation (Poster)

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

Monday Afternoon, November 7, 2011

1:30 - 5:10 PM AFTERNOON SESSIONS

MP1a Interference-Alignment Techniques for Multi-Antenna Systems

MP1b Interference Alignment for the MIMO Interference Channel

MP2a Energy-Harvesting Wireless Networks

MP2b Coding and Decoding

MP3a Graphical Models in Signal Processing II

MP3b Signal Processing and Learning in Complex Systems

MP4a Compressive Sensing Applications in Networking

MP4b Resource Allocation in Wireless Networks

MP5a Advances in Bioimaging and Analysis

MP5b Image/Video Restoration, Enhancement and Evaluation

MP6a Tensor-based Array Signal Processing

MP6b Compressive Sensing for Array Processing

MP7a Processing of Physiological Signals

MP7b Model-based Design Optimization

MP8a1 Adaptive Filtering (Poster)

MP8a2 Speech Processing, Recognition and Coding (Poster)

MP8a3 Parameter Estimation (Poster)

MP8a4 DSP Algorithms and Architectures (Poster)

MP8a5 Novel DSP Architectures (Poster)

Monday Evening, November 7, 2011

6:00 - 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

guests.

2011 Asilomar Conference Session Schedule (continued)

Breakfast — Crocker Dining Hall

Tuesday Morning, November 8, 2011

7:30 - 9:00 ам

8:00 A	м - 5:00 рм Registration
8:15 -	12:00 PM MORNING SESSIONS
TA1a	Random Matrices in Signal Processing and MIMO Communications
TA1b	Biosignal Estimation and Classification
TA2a	Network Coding
TA2b	Relaying through Frequency Selective Channels
TA3a	Advances in Compressive Sensing
TA3b	Sparse Reconstruction
TA4a	Next Generation Network Science
TA4b	Bio-inspired Models and Algorithms for Information Processing in
	Complex Networks
TA5a	Image and Video Retrieval
TA5b	Sparse Representations with Applications to Images and Video
TA6a	Waveform Design and MIMO Radar
TA6b	Network Beamforming and Relaying via Multiple Antennas
TA7	Architectures for Wireless Communications
TA8a1	Signal Processing Methods for Representation, Analysis, and Control
	of Biological Systems (Poster)
TA8a2	Receiver Design and Optimization (Poster)
TA8a3	Communications System Design (Poster)
TA8a4	Applications of Array Processing (Poster)
TA8b1	1
TA8b2	1 2
	(Poster)
TA8b3	3 Adaptive Sensing (Poster)
12:00 -	- 1:00 PM Lunch – Crocker Dining Hall
Tuesd	ay Afternoon, November 8, 2011
1:30 -	5:10 PM AFTERNOON SESSIONS
TP1a	Resource Allocation in Multi-Antenna Systems
TP1b	Interference Management
TP2a	Cognitive Radio I
TP2b	Cognitive Radio II
TP3a	Multi-dimensional Compressive Inference
TP3b	Advances in Adaptive and Distributed Filtering
TP4a	Communication Management in Robot Networks
TP4b	Distributed Storage Systems
TP5	Compressive Sensing for Radar
TP6a	Source Localization
TP6b	Array Processing for Satellite Communications
TP7a	Adaptive and Evolvable Architectures

TP8b1 Machine-Learning-Based Statistical Signal Processing (Poster)
 TP8b2 Network Information Theory (Poster)
 Tuesday Evening Open Evening — Enjoy the Monterey Peninsula

TP8a2 Statistical and Array Signal Processing for Biomedical Applications

TP8a1 Techniques for Space-Time Signal Processing (Poster)

TP7b Computer Arithmetic II

(Poster)
TP8a3 Sensor Networks (Poster)
TP8a4 Wireless Networks (Poster)

2011 Asilomar Conference Session Schedule (continued)

Wednesday Morning, November 9, 2011

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.

8:15 AM - 12:00 PM MORNING SESSIONS

WA1a Channel Estimation for Multi-Antenna Systems

WA1b MIMO Radar and SAR

WA2a OFDM

WA2b Beamforming

WA3a Information Theoretic Signal Processing

WA3b Compressive Imaging and Detection

WA4a Cooperation & Relays

WA4b Multiuser Information Theory

WA5a Signal Theory and Image Representation

WA5b Biometrics

WA6a Computational Aspects in Array Processing

WA6b Source Separation

WA7a Multi-core/GPU Implementation

WA7b Reconfigurable Architectures, Algorithms and Applications

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

Merrill Hall - Sunday, November 6, 2011, 4:30 - 6:30 PM

"Spectrum Leasing via Cooperative Opportunistic Routing in Distributed Ad Hoc Networks: Optimal and Heuristic Policies"

Cristiano Tapparello, Davide Chiarotto, Michele Rossi, University of Padova; Osvaldo Simeone, New Jersey Institute of Technology; Michele Zorzi, University of Padova

"Correcting Erasure Bursts with Minimum Decoding Delay"

Zhi Li, Stanford University; Ashish Khisti, University or Toronto; Bernd Girod, Stanford University

"Asymptotic Analysis of Double-Scattering Channels" **Jakob Hoydis**, Romain Couillet, and Merouane Debbah, SUPELEC

"Mutual Information Distribution of Interference-Limited MIMO: A Joint Coulomb Fluid and Painleve Based Approach"

Shang Li, Hong Koong University of Science and Technology; Yang Chen, Imperial College London; Matthew McKay, Hong Kong University of Science and Technology

"MSE-Optimal Power Allocation in Wireless Sensor Networks for Field Reconstruction Based on Shift-Invariant Spaces"

Günter Reise, Vienna University of Technology; Javier Matamoros and Carles Antôn-Haro, CTTC; Gerald Matz, Vienna University of Technology

"On the Limits of Sequential Testing in High Dimensions"

Matthew Malloy and Robert Nowak, University of Wisconsin

"Non-Uniform Linear Arrays for Improved Identifability in Cumulant Based DOA Estimation"

Piya Pal and P.P. Vaidyanathan, California Institute of Technology

"Maximum Likelihood Time Delay Estimation for CDMA Direct Spread Multipath Transmissions Using Importance Sampling" Ahmed Masmoudi, Faouzi Bellili, and Sofiene Affes, INRS-EMT

"Haplotype Inference Based on Sparse Dictionary Selection" G.H. Jajamovich and X. Wang, Columbia University

"A High-Performance Area-Efficient AES Encipher on a Many-core Platform"

Bin Liu and Bevan Baas, University of California, Davis

"Learning Dictionaries for Local Sparse Coding in Image Classification"

Jayaraman J. Thiagarajan and Andreas Spanias, Arizona State University

2011 Asilomar Conference Session Schedule

Coffee breaks will be at 9:55 AM and 3:10 PM. (Except Monday morning when refreshments will be served outside Merrill Hall from 9:45–10:15 AM)

Monday, November 7, 2011

CONFERENCE WELCOME AND PLENARY SESSION 8:15 – 9:45 AM

1. Welcome from the General Chairperson

Dr. James Schroeder

Harris Government Communication Systems

2. Session MA1a Distinguished Lecture for the 2011
Asilomar Conference

Machine Learning in Signal Processing

Prof. Jose C. Principe

Distinguished Professor of Electrical Engineering University of Florida

Abstract

This talk describes our efforts to go beyond the second order moment assumption still prevalent in optimal signal processing. We show how the second norm of the PDF can be estimated directly from data avoiding an explicit PDF estimation step. The link between PDF moments, information theory and Reproducing Kernel Hilbert spaces will be established. Applications to adaptive systems with entropic cost functions will be demonstrated. A generalized correlation function called correntopy will be defined and its applications in signal processing will be outlined. Correntopy leads to new measures of similarity, to a new definition of dependence subspaces and to new tests for causality.

Biography

Jose C. Principe (M'83-SM'90-F'00) is a Distinguished Professor of Electrical and Computer Engineering and Biomedical Engineering at the University of Florida where he teaches advanced signal processing, machine learning and

artificial neural networks (ANNs) modeling. He is BellSouth Professor and the Founder and Director of the University of Florida Computational NeuroEngineering Laboratory (CNEL) www.cnel.ufl.edu. His primary area of interest is processing of time varying signals with adaptive neural models. The CNEL Lab has been studying signal and pattern recognition principles based on information theoretic criteria (entropy and mutual information).

Dr. Principe is an IEEE Fellow. He was the past Chair of the Technical Committee on Neural Networks of the IEEE Signal Processing Society, Past-President of the International Neural Network Society, and Past-Editor in Chief of the IEEE Transactions on Biomedical Engineering. He is a member of the Advisory Board of the University of Florida Brain Institute. Dr. Principe has more than 500 publications. He directed 62 Ph.D. dissertations and 65 Master theses. He wrote in 2000 an interactive electronic book entitled "Neural and Adaptive Systems" published by John Wiley and Sons and more recently co-authored several books on "Brain Machine Interface Engineering" Morgan and Claypool, "Information Theoretic Learning", Springer, and "Kernel Adaptive Filtering", Wiley.

Program of the 2011 Asilomar Conference on Signals, Systems, and Computers

Technical Program Chairman Prof. Robert W. Heath, Jr. The University of Texas at Austin

Session MA1b Energy Efficient MIMO Communication

	Communication			
Chair: Chan-Byoung Chae, Yonsei University, S. Korea				
MA1b-1	Optimal Transmission Policies over Vector Gaussian Channels with Energy Harvesting Transmitters Omur Ozel, University of Maryland; Jing Yang, Sent	10:15 AM		
	Ulukus, University of Wisconsin-Madison			
MA1b-2	Throughput and Energy Consumption of a Random Network with Energy Harvesters Kaibin Huang, Yonsei University	10:40 AM		
MA1b-3	Large-Scale Antenna Systems for Wireless Energy Efficiency Thomas Marzetta, Bell Laboratories, Alcatel-Lucent	11:05 AM		
MA1b-4	Energy-Efficient Training for Antenna Selection in Time-Varying Channels Vinod Kristem, Broadcom Corporation; Neelesh B. I Indian Institute of Science; Andreas Molisch, University	11:30 AM Mehta, esity of		
	Southern California			
Session N	MA2b Delay Sensitive Communica	tion		
Chair: Ashi	sh Khisti, University of Toronto			
MA2b-1	Speeding Multicast by Acknowledgment Reduction Technique (SMART) Arman Rezaee, Linda Zeger, Muriel Medard, Massachusetts Institute of Technology	10:15 AM		
MA2b-2	Controlling End-to-End Application Latency for Real-Time Data Sanjeev Mehrotra, Cheng Huang, Jin Li, Microsoft Research	10:40 AM		
MA2b-3	Correcting Erasure Bursts with Minimum Decoding Delay Zhi Li, Stanford University; Ashish Khisti, University	11:05 AM		
MA2b-4	Toronto; Bernd Girod, Stanford University Code Length and Rate Selection for Delay Sensitive Bursty Traffic Tara Javidi, University of California, San Diego	11:30 AM		
Session N	MA3b Graphical Models in Signal			
	Processing I			
Chair: Andr	ea Montanari, Stanford University			
MA3b-1	Stochastic Belief Propagation: A Low-Complexity Message-Passing Algorithm Guarantees Nima Noorshams, Martin Wainwright, University of California, Berkeley			
MA3b-2	Reweighted Linear Programming for Inference and Decoding Amin Khajehnejad, Alexandros Dimakis, Babak Has University of Southern California	10:40 AM sibi,		

MA3b-3	Message-Passing on Dense Graphs and Applications in Statistical Learning Mohsen Bayati, Andrea Montanari, Stanford Univers.	11:05 AM
MA3b-4	Robust Belief Propagation Morteza Ibrahimi, Adel Javanmard, Yashodhan Kano Andrea Montanari, Stanford University	11:30 AM
Session N	IA4b In-network Computation	
Chair: Osva	do Simeone, New Jersey Institute of Technolog	v
MA4b-1	Network Optimization with Heuristic Rational Agents Ceyhun Eksin, Alejandro Ribeiro, University of Pennsylvania	10:15 AM
MA4b-2	A Coordination-Free Distributed Algorithm for Simple Assignment Problems Using Randomized Actions Usman A. Khan, Tufts University; Soummya Kar, Car Mellon University	10:40 AM
MA4b-3	•	RS-
MA4b-4	Collaborative Sequential-Based Detection in Wireless Sensor Networks Sabina Zejnilovic, Carnegie Mellon University; Joao Pedro Gomes, Instituto Superior Tecnico; Bruno Sino Carnegie Mellon University	11:30 AM
Session N	IA5b Medical Imaging	
Chair: Ge Y	ang, Carnegie Melon University	
MA5b-1	Calibrationless Parallel MRI Using ORACLE (Overlapping Low-Rank Approximations for Calinage Estimation) Joshua Trzasko, Armando Manduca, Mayo Clinic	
MA5b-2		10:40 AM y:
MA5b-3	Level Estimation for Sparse Reconstruction in Discrete Tomography Yenting Lin, Antonio Ortega, Alexandros G. Dimakis, University of Southern California	11:05 AM
MA5b-4		11:30 AM

Session MA6b Collaborative Beamforming

Chair: Sofiène Affes, INRS-EMT, Université du Québec

- MA6b-1 DSP-Centric Algorithms for Distributed 10:15 AM Transmit Beamforming Upamanyu Madhow, University of California, Santa Barbara; Raghu Mudumbai, University of Iowa; D. R. Brown, Worcester Polytechnic Institute; Patrick Bidigare, Raytheon BBN Technologies MA6b-2 Power Control for Collaborative 10:40 AM Beamforming in Wireless Sensor Networks Mohammed Ahmed, Sergiy Vorobyov, University of Alberta MA6b-3 Testing Zero-Feedback Distributed 11:05 AM Beamforming with a Low-Cost SDR Testbed George Sklivanitis, Aggelos Bletsas, Technical University of Crete
- MA6b-4 Distributed Cooperative Jamming for 11:30 AM Improving Physical Layer Security
 Yupeng Liu, Athina Petropulu, Rutgers University; H.
 Vincent Poor, Princeton University

Session MA7b Multivariate and Multimodal Analysis of Brain Signals

Co-Chairs: Justin Dauwels, Nanyang Technological University and Deniz Erdogmus, Northeastern University

- MA7b-1 Sparse Common Spatial Patterns with Recursive Weight Elimination
 Fikri Goksu, Nuri F. Ince, University of Minnesota
- MA7b-2 Identifying Multivariate EEG 10:40 AM Synchronization Networks through Multiple Subject Community Detection

 Marcos Bolanos, Ali Yener Mutlu, Michigan State
 University; Edward Bernat, Florida State University;
 Selin Aviyente, Michigan State University
- MA7b-3 Frequency Constrained ShifCP Modeling of 11:05 AM Neuroimaging Data

 Morten Mørup, Technical University of Denmark
- MA7b-4 Context Information Significantly Improves 11:30 AM
 Brain Computer Interface Performance A Case
 Study on Text Entry Using a Language Model
 Assisted BCI
 Umut Orhan, Northeastern University; Kenneth E.
 Hild II. Oregon Health and Science University: Deniz

Hild II, Oregon Health and Science University; Deniz Erdogmus, Northeastern University; Brian Roark, Barry Oken, Melanie Fried-Oken, Oregon Health and Science University

Session MA8b1 Computer Arithmetic I

10:15 AM - 12:00 PM

- MA8b1-1 Efficient Decimal Leading Zero Anticipator Designs Mohamed H. Amin, Ahmed M. ElTantawy, Hossam A. H. Fahmy, Cairo University
- MA8b1-2 Hybrid Residue Generators for Increased Efficiency Michael Sullivan, Earl Swartzlander, University of Texas at Austin
- MA8b1-3 Nested Quadratic Arithmetic for Efficient Convolution of Complex Sequences with Quadratic Modified Fermat Number Transforms

 Chandrashekar Radhakrishnan, University of Illinois;
 Kenneth Jenkins, Pennsylvania State university
- MA8b1-4 On Building General Modular Adders from Standard Binary Arithmetic Components Ghassem Jaberipur, Shahid Beheshti University; Behrooz Parhami, University of California, Santa Barbara; Saeed Nejati, Shahid Beheshti University
- MA8b1-5 A Novel Adaptive Filter Implementation Scheme Using Distributed Arithmetic

 Rui Guo, Linda S. DeBrunner, Florida State University
- MA8b1-6 A Mixed-Precision Fused Multiply and Add Nicolas Brunie, Kalray; Florent de Dinechin, École Normale Supérieure de Lyon; Benoit de Dinechin, Kalray
- MA8b1-7 Implementation of 32-bit Ling and Jackson Adders

 Matthew Keeter, David Harris, Andrew Macrae, Rebecca
 Glick, Madeleine Ong, Harvey Mudd College; Justin
 Schauer, Oracle
- MA8b1-8 Truncated-Matrix Multipliers with Coefficient Shifting E. George Walters III, Penn State Erie, The Behrend College; Michael J. Schulte, Advanced Micro Devices

Session MA8b2 Physical Layer Security I

Chair: Wing-Kin (Ken) Ma, Chinese University of Hong Kong

10:15 AM - 12:00 PM

- MA8b2-1 Faster than Nyquist Interference Assisted Secret Communication for OFDM Systems Arsenia Chorti, H. Vincent Poor, Princeton University
- MA8b2-2 QoS-Constrained Robust Beamforming in MISO Wiretap Channels with a Helper

 Jing Huang, A. Lee Swindlehurst, University of California,

 Irvine
- MA8b2-3 Secrecy Outage in MISO Systems with Partial Channel Information
 Sabrina Gerbracht, Eduard Jorswieck, Dresden University of Technology
- MA8b2-4 Secrecy Rate for Gaussian MISO Wiretap Channels with Spherical Uncertainty

 Jiangyuan Li, Athina Petropulu, Rutgers University

- MA8b2-5 Two-Way Discriminatory Channel Estimation for Non-Reciprocal Wireless MIMO Channels

 Chao-Wei Huang, Tsung-Hui Chang, National Tsing Hua
 University; Xiangyun Zhou, University of Oslo; Y.-W.
 Peter Hong, National Tsing Hua University
- MA8b2-6 Safe Convex Approximation to Outage-Based MISO Secrecy Rate Optimization under Imperfect CSI and with Artificial Noise *Qiang Li, Wing-Kin Ma, Anthony Man-Cho So, Chinese University of Hong Kong*
- MA8b2-7 Benefits of Multiple Transmit Antennas in Secure Communication: A Secrecy Outage Viewpoint Xi Zhang, Hong Kong University of Science and Technology; Xiangyun Zhou, University of Oslo; Matthew McKay, Hong Kong University of Science and Technology
- MA8b2-8 Confidential Messages in Bi-Directional Relay Networks under Channel Uncertainty

 Rafael F. Wyrembelski, Holger Boche, Technische
 Universität München

Session MA8b3 Physical Layer Security II

Chair: Wing-Kin (Ken) Ma, Chinese University of Hong Kong

10:15 AM - 12:00 PM

- MA8b3-1 A Full-Duplex Active Eavesdropper in MIMO Wiretap Channels: Construction and Countermeasures Amitav Mukherjee, Lee Swindlehurst, University of California, Irvine
- MA8b3-2 RF Fingerprinting of Users Who Actively Mask Their Identities with Artificial Distortion

 Adam Polak, Dennis Goeckel, University of Massachusetts

 Amherst
- MA8b3-3 Power Allocation to Noise-Generating Nodes for Cooperative Secrecy in the Wireless Environment Kyle Morrison, Dennis Goeckel, University Massachusetts
- MA8b3-4 Comparing Random Signals with Application to Wireless User Authentication

 Jitendra Tugnait, Auburn University
- MA8b3-5 Transmit Beamforming and Cooperative Jamming for MIMOME Wiretap Channels

 Wei Shi, James Ritcey, University of Washington
- MA8b3-6 Secrecy in Broadcast Channels with Receiver Side Information
 Rafael Wyrembelski, Universitat Munchen; Aydin Sezgin,
 Ulm University; Holger Boche, Universitat Munchen
- MA8b3-7 On the Ergodic Secrecy Capacity of the Wiretap Channel under Imperfect Main Channel Estimation

 Zouheir Rezki, King Abdullah University of Science and Technology; Ashish Khisti, University of Toronto;

 Mohamed-Slim Alouini, King Abdullah University of Science and Technology

MA8b3-8 Secure Wireless Multicasting Through Nakagami-m Fading MISO Channel Md. Zahurul I. Sarkar, Tharmalingam Ratnarajah, Queen's University Belfast

Session MA8b4 Image, Video Coding and Analysis

Chair: Vishal Monga, Pennsylvania State University

10:15 AM - 12:00 PM

- MA8b4-1 JPEG Image Compression Using Quantization Table
 Optimization Based on Perceptual Image Quality
 Assessment
 Yuebing Jiang, Marios Pattichis, University of New
 Mexico
- MA8b4-2 Efficient Coders for Large Tree-Structured Dictionaries of Tilings

 Kai-Lung Hua, National Taiwan University of Science and Technology; Rong Zhang, Qualcomm Incorporated; Mary Comer, Ilya Pollak, Purdue University
- MA8b4-3 Variable Block Size-Based MCFI with Fixed Block Size Motion Estimation

 Masaru Hoshi, Akihiro Yoshinari, Yuichi Tanaka, Madoka Hasegawa, Shigeo Kato, Utsunomiya University
- MA8b4-4 A Structural Similarity Assessment for Generating Hybrid Images Keita Takahashi, Madoka Hasegawa, Yuichi Tanaka, Shigeo Kato, Utsunomiya University
- MA8b4-5 A Compact Saliency Model for Video-Rate Implementation Tien Ho-Phuoc, Laurent Alacoque, Antoine Dupret, CEA; Anne Guérin-Dugué, GIPSA-Lab; Arnaud Verdant, CEA
- MA8b4-6 Dithered Soft Decision Quantization for Baseline JPEG Encoding and its Joint Optimization with Huffman Coding and Quantization Table Selection En-hui Yang, Chang Sun, University of Waterloo
- MA8b4-7 Compressive Sensing Based Imaging via Beleif Propagation Preethi Ramchandara, Mina Sartipi, University of Tennessee Chattanooga

Session MA8b5 Adaptive Systems and Spectral Estimation

Chair: Vitor Nascimento, University of Sao Paulo

10:15 AM - 12:00 PM

- MA8b5-1 A Modified System-Based Adaptive Algorithm for a Sparse Reconfigurable Photonic Filter Suk-seung Hwang, Hong Chang, Chosun University; John J. Shynk, University of California, Santa Barbara
- MA8b5-2 A New Variable Step-Size Strategy For Adaptive Networks Muhammad Bin Saeed, Azzedine Zerguine, King Fahd University of Petroleum & Minerals

MA8b5-3	A Comparison of Methods for Estimating Broad Noise in the Frequency Domain Don Hush, Norma Pawley, Kary Myers, Robert Nemze Los Alamos National Laboratory	
MA8b5-4	An Information Filter for Voice Prompt Suppres John McDonough, Carnegie Mellon University; Kenia Kumatani, Disney Research; Bhiksha Raj, Carnegie Mellon University; Jill Lehman, Disney Research	
MA8b5-5	Embedded Track Validation for Tree Search-Bas Tracking of Maneuvering Targets Hossein Roufarshbaf, Jill Nelson, George Mason University	sed
MA8b5-6	Urban Terrain Multiple Target Tracking Using Probability Hypothesis Density Particle Filtering Meng Zhou, Bhavana Chakraborty, Jun Jason Zhang, Arizona State University	g
MA8b5-7	High-Resolution Non-Parametric Spectral Estim Using the Hirschman Optimal Transform Guifeng Liu, Victor DeBrunner, Florida State Univers	
MA8b5-8	Co-Prime Sampling for System Stabilization wi Multi-Rate Controllers P. P. Vaidyanathan, Piya Pal, California Institute of Technology	th FIR
Session N	IP1a Interference-Alignment Tech	niques
	for Multi-Antenna Systems	
Chair: Vince Technology	ent Lau, Hong Kong University of Science and	
MP1a-1	Interference Alignment for Peer-to-Peer Underlay MIMO Cognitive Radio Network Huiqin Du, Tharm Ratnarajah, Haichuan Zhou, Quee University Belfast; Ying Chang Liang, Institute for Infocomm Research	1:30 PM n's
MP1a-2	Sum Rate Enhancement by Maximizing SGINR in an Opportunistic Interference Alignm Scheme Seong-Ho (Paul) Hur, University of California, San Diego; Bang-Chul Jung, Gyeongsang National Unive Bhaskar D. Rao, University of California, San Diego	
MP1a-3	Interference Alignment for Partially Connected Quasi-static MIMO Interference Channel Liangzhong Ruan, Vincent K.N. Lau, Hong Kong University of Science and Technology	2:20 PM
MP1a-4	Opportunistic MU-MIMO based on Semi-Blind Interference Alignment Haralabos Papadopoulos, Sayan Mukherjee, Sean Ramprashad, DoCoMo USA Labs	2:45 PM

Session MP1b Interference Alignment for the MIMO Interference Channel

Chair: Geert Leus, Technical University of Delft

MP1b-1 Linear Interference Alignment and its 3:30 PM

Maximum Achievable Degrees of Freedom

Meisam Razaviyayn, Gennady Lyubeznik, Zhi-Quan Luo,

University of Minnesota

MP1b-2 MIMO Interference Alignment in Random 3:55 PM
Access Networks
Behrang Nosrat-Makouei, Radha Krishna Ganti, Jeffrey
G. Andrews, Robert W. Heath, Jr., University of Texas at
Austin

MP1b-3 The Noisy MIMO Interference Channel with 4:20 PM Distributed CSI Acquisition and Filter Computation Francesco Negro, Eurecom; Umer Salim, Irfan Ghauri, Intel Corporation; Dirk Slock, Eurecom

MP1b-4 Secure Space-Time Block Coding via 4:45 PM
Artificial Noise Alignment
S. Ali A. Fakoorian, A. Lee Swindlehurst, University of
California, Irvine

Session MP2a Energy-Harvesting Wireless Networks

Chair: Osvaldo Simeone, NJIT

MP2a-1 AWGN Channel under Time-Varying 1:30 PM
Amplitude Constraints with Causal Information at
the Transmitter
Omur Ozel, Sennur Ulukus, University of Maryland

MP2a-2 Optimal Power Control for Energy 1:55 PM Harvesting Transmitters in an Interference Channel Kaya Tutuncuoglu, Aylin Yener, Penn State University

MP2a-3 Queuing Theoretic and Information Theoretic 2:20 PM
Capacity of Energy Harvesting Sensor Nodes
Vinod Sharma, Indian Institute of Science; Ramachandran
Rajesh, Centre for Airborne Systems

MP2a-4 Queue and Power Control for Rechargeable 2:45 PM Sensor Networks under the SINR Interference Model

Zhoujia Mao, Can Emre Koksal, Ness B. Shroff, Ohio State University

Session MP2b Coding and Decoding

Chair: Aydin Sezgin, University of Ulm

MP2b-1 Complexity Analysis of Interior Point 3:30 PM
Methods for LP Decoding
Yifan Sun, Lara Dolecek, University of California, Los
Angeles

MP2b-2 Rate Adaptive Non-Binary LDPC Codes with 3:55 PM Low Encoding Complexity Nicholas Chang, MIT Lincoln Laboratory

MP2b-3	Achieving Flexibility in LDPC Code Design by Absorbing Set Elimination Jiajun Zhang, Jiadong Wang, University of California, Los Angeles; Shayan Garani Srinivasa, Western Digita Corporation; Lara Dolecek, University of California, Angeles	al
MP2b-4	Decoding by Detection: Soft-Input/Soft-Output Error Correction Decode for Arbitrary Binary Linear Codes Todd Moon, Jacob (Jake) Gunther, Utah State Univers	
Session N	IP3a Graphical Models in Signal	
	Processing II	
Chair: Alex	Ihler, University of California, Irvine	
MP3a-1	Concept Graphs for a Personalized Learning System Andrew Waters, Richard Baraniuk, Rice University	1:30 PM
MP3a-2	Inference and Learning for Continuous-Time Stochastic Systems Christian Shelton, E. Busra Celikkaya, University of California, Riverside	1:55 PM
MP3a-3	Approximate Bayesian Inference for Robust Speech Processing Ciira Maina, John Walsh, Drexel University	2:20 PM
MP3a-4	Out-of-Sequence Measurements and Incremental Inference in Graphical Models Ozgur Sumer, University of Chicago; Ramgopal Mettu University Massachusetts Amherst; Umut Acar, MPI-S Alexander Ihler, University of California, Irvine	
Session M	IP3b Signal Processing and Learni	ng in
	Complex Systems	
Chair: Andr	ew Singer, University of Illinois at Urbana-Chan	npaign
MP3b-1	Diffusion Adaptation over Networks of Particles Subject to Brownian Fluctuations Ali Sayed, Faten Sayed, University of California, Los Angeles	3:30 PM
MP3b-2	Trust, Opinion Diffusion and Radicalization in Social Networks Lin Li, Anna Scaglione, University of California, Davi Ananthram Swami, Army Research Laboratory; Qing Zhao, University of California, Davis	3:55 PM
MP3b-3	Disentangling Mixed Preference Systems and Hidden Variables Constantine Caramanis, University of Texas at Austin	4:20 PM
MP3b-4	Unity Versus Diversity in a Population of Interacting Adaptive Agents: the Value of Extrin Gossip Andrew Bean, Andrew Singer, University of Illinois at Urbana Champaign	4:45 PM sic

Session MP4a Compressive Sensing Applications in Networking

Co-Chairs: Jarvis Haupt, University of Minnesota and Michael Rabbat, McGill University

MP4a-1	Sparse Recovery of Temporally Changing Networks: Longitudinal Modeling of Brain Networks in Children Moo Chung, Jamie Hanson, Seth Pollak, University of Wisconsin	1:30 PM
MP4a-2	Unveiling Anomalies in Large-Scale Networks via Sparsity and Low Rank Morteza Mardani, Gonzalo Mateos, Georgios B. Giannakis, University of Minnesota	1:55 PM
MP4a-3	Random Access Compressed Sensing: An Integrated Architecture for Energy-Efficient Networking Fatemeh Fazel, Northeastern University; Maryam Fa University of Washington; Milica Stojanovic, Northea University	
MP4a-4	Recent Results on Sparse Recovery over Graphs Weiyu Xu, Meng Wang, Enrique Mallada, Ao Kevin To	2:45 PM

Session MP4b Resource Allocation in Wireless Networks

Cornell University

Chair: Rah	nul Urgaonkar, University of Southern California	
MP4b-1	MSE-Optimal Power Allocation in Wireless Sensor Networks for Field Reconstruction Base Shift-Invariant Spaces Günter Reise, Vienna University of Technology; Javid Matamoros, Carles Antón-Haro, Centre Tecnològic a Telecomunicacions de Catalunya (CTTC); Gerald M. Vienna University of Technology	er le
MP4b-2	Spatial Interference Mitigation for Multiple-Input Multiple-Output Ad Hoc Netwo Salam Akoum, University of Texas at Austin; Marios Kountouris, Merouane Debbah, Supélec; Robert W. I Jr., University of Texas at Austin	
MP4b-3	A Greedy Link Scheduler for Wireless Networks with Fading Channels A. Sridharan, Emre Koksal, Ohio State University	4:20 PM
MP4b-4	Radio Resource Management in Heterogeneous Deployments: a System Level Perspective Thomas Wirth, Fraunhofer Heinrich Hertz Institute	4:45 PM

Session MP5a Advances in Bioimaging and Analysis

Chair: Jean-Christophe Olivo-Marin, Institut Pasteur

MP5a-1 Ouantitative Synaptic Vesicle Imaging for 1:30 PM Evaluating Neuron Activities in Neurodegenerative Diseases Jing Fan, Xiaofeng Xia, Stephen Wong, Methodist Hospital Research Institute MP5a-2 Flexible and Efficient Multi-Region 1:55 PM Segmentation Using Active Contours Grégory Paul, Janick Cardinale, Ivo F. Sbalzarini, ETH Zurich MP5a-3 Nanometer Resolution Imaging and Tracking 2:20 PM of Axonal Cargo Transport in Normal and Degenerative Neurons Ge Yang, Carnegie Mellon University MP5a-4 Statistical Colocalization of Molecular 2:45 PM Species in Biological Imaging Vannary Meas-Yedid, Cyril Basquin, Nathalie Sauvonnet, Jean-Christophe Olivo-Marin, Institut Pasteur

Session MP5b Image/Video Restoration, Enhancement and Evaluation

Chair: Mary Comer, Purdue University

MP5b-1 Tikhonov's Regularization Functional for 3:30 PM Image Restoration by Means of q-Discrepancy Vania V. Estrela, Universidade Federal Fluminense: Aggelos K. Katsaggelos, Northwestern University MP5b-2 Equivalence of Plenoptic Cameras 3:55 PM Todor Georgiev, Adobe; Sergio Goma, Qualcomm Incorporated; Andrew Lumsdaine, Adobe MP5b-3 Referenceless Image Spatial Quality 4:20 PM Evaluator Anish Mittal, Anush Moorthy, Alan Bovik, Wireless Networking and Communications Group MP5b-4 Noise Model Discrimination for Digital 4.45 PM Images based on Variance-Stabilizing Transforms

and on Local Statistics: Preliminary Results
Paul Rodriguez, Pontificia Universidad Catolica del Peru

Session MP6a Tensor-based Array Signal Processing

Chair: Martin Haardt, Ilmenau University of Technology

MP6a-1 Modeling Latency and Shape Changes in 1:30 PM
Trial Based Neuroimaging Data
Morten Mørup, Technical University of Denmark;
Kristoffer Hougaard Madsen, Hvidovre Hospital; Lars Kai
Hansen, Technical University of Denmark

MP6a-2	Canonical Decomposition of Non-Negative arrays	1:55 PM
	Julie Coloigner, Laurent Albera, Lotfi Senhadji, Amar Kachenoura, University of RENNES 1, LTSI and INSE UMR 642	'RM,
MP6a-3	Tensor-Based Semi-Blind Channel Estimation for MIMO OSTBC-Coded Systems Florian Roemer, Ilmenau University of Technology; Nima Sarmadi, Technische Universität Darmstadt; Bir Song, Martin Haardt, Ilmenau University of Technolog Marius Pesavento, Alex Gershman, Technische Univer Darmstadt	gy;
MP6a-4	Tensor Decompositions with Block-Toeplitz Structure and Applications in Signal Processing Mikael Sorensen, Lieven De Lathauwer, K.U. Leuven	2:45 PM
Session M	IP6b Compressive Sensing for Arra	ay
	Processing	
Chair: Benja	amin Friedlander, University of California, Santa	ı Cruz
MP6b-1	The MUSIC Algorithm for Compressive Imaging: Noise Stability and Performance Guarantee Albert Fannjiang, University of California, Davis	3:30 PM
MP6b-2	Some Theoretical Results for Compressive Radar Thomas Strohmer, University of California, Davis; Benjamin Friedlander, University of California, Santa Cruz	3:55 PM
MP6b-3	Sensitivity Considerations in Compressed Sensing Louis Scharf, Ali Pezeshki, Colorado State University; Yuejie Chi, Princeton University	4:20 PM
MP6b-4	Coherence, Compressive Sensing and Random Sensor Arrays Lawrence Carin, Duke University	4:45 PM
Session M	IP7a Processing of Physiological Si	gnals
	Nuri Firat Ince, University of Minnesota and Mo hnical University of Denmark	rten
MP7a-1	Does the Morphology of High-Frequency (100-500 Hz) Brain Oscillations Change During Epileptic Seizures? <i>Allison Pearce, Drausin Wulsin, Brian Litt, Justin Blat University of Pennsylvania</i>	1:30 PM <i>nco,</i>
MP7a-2	Early Investigations into Subjective Audio Quality Assessment Using Brainwave Responses Charles Creusere, Srikant Siddenki, New Mexico State University; Joe Hardin, Colorado State University; Jin Kroger, New Mexico State University	

MP7a-3	Electrocardiogram Signal Modeling and 2:20	PM
	Estimation Using the Interacting Multiple Model	
	Particle Filtering	
	Shwetha Edla, Narayan Kovvali, Antonia Papandreou-	
	Suppappola, Arizona State University	

MP7a-4 A Novel Approach for Simulation, 2:45 PM
Measurement and Representation of Surface EMG
(sEMG) Signals
Anvith Mahabalagiri, Khadeer Ahmed, Fred Schlereth,
Syracuse University

Session MP7b Model-based Design Optimization

Chair: Sankalita Saha, NASA, USA

- MP7b-1 Distributed Energy and Environment Sensing 3:30 PM for Smart Building Management

 Chen Xia, Hao Liu, Xiangrong Zhou, University of Hawaii
- MP7b-2 FPGA-Accelerator System for Computing
 Biologically-Inspired Feature Extraction Models
 Michael DeBole, Pennsylvania State University; Chili Yu, Arizona State University; Ahmed Al Maashri,
 Matthew Cotter, Pennsylvania State University; Chaitali
 Chakrabarti, Arizona State University; Vijaykrishnan
 Narayanan, Pennsylvania State University
- MP7b-3 A Machine Model for Dataflow Actors and its 4:20 PM Applications Jorn W. Janneck, Lund University
- MP7b-4 Operation Set Customization in Retargetable 4:45 PM Compilers

 Heikki Kultala, Pekka Jääskeläinen, Mikael Lepistö,
 Jarmo Takala, Tampere University of Technology

Session MP8a1 Adaptive Filtering

Chair: Ricardo Merched, Universidade Federal do Rio de Janeiro

1:30 PM - 3:10 PM

- MP8a1-1 Simplified Complex LMS Algorithm for the Cancellation of Second-Order TX Intermodulation Distortions in Homodyne Receivers

 Christian Lederer, Mario Huemer, Alpen-Adria-Universitaet Klagenfurt
- MP8a1-2 A Steady-State Analysis of the E-Normalized Sign-Error Least Mean Square (NSLMS) Adaptive Algorithm Mohammed Faiz, Azzedine Zerguine, King Fahd University of Petroleum & Minerals
- MP8a1-3 A Modified Non-Negative LMS Algorithm and its Stochastic Behavior Analysis

 Jie Chen, Cédric Richard, Université de Nice SophiaAntipolis; Jose Bermudez, Federal University of Santa
 Catarina; Paul Honeine, Université de Technologie de Troves
- MP8a1-4 A Robust LMS Adaptive Algorithm over Distributed Networks

 Muhammad Bin Saeed, Azzedine Zerguine, Salam Zummo, King Fahd University of Petroleum & Minerals

- MP8a1-5 Error-Based "Gear-Shifting" for a Generalized LMS Algorithm

 John J. Shynk, University of California, Santa Barbara
- MP8a1-6 A Variable Step-Size GMDF and its Performance Analysis Hsu-Chang Huang, Junghsi Lee, Yuan-Ze University
- MP8a1-7 Acoustic Feedback and Echo Cancellation Strategies for Multiple-Microphone and Single-Loudspeaker Systems

 Meng Guo, Thomas Bo Elmedyb, Oticon A/S; Søren Holdt

 Jensen, Aalborg University; Jesper Jensen, Oticon A/S
- MP8a1-8 Comparison of Two Techniques for Linear-Phase Adaptive Band-Stop Filters Michael Soderstrand, University of California (Retired)

Session MP8a2 Speech Processing, Recognition and Coding

Chair: Jerry Gibson, University of California, Santa Barbara

1:30 PM - 3:10 PM

- MP8a2-1 Automatic Phoneme Recognition with Segmental Hidden Markov Models

 Areg Baghdasaryan, A. A. (Louis) Beex, Virginia
 Polytechnic Institute and State University
- MP8a2-2 A Perceptually Re-Weighted Mixed-Norm Method for Sparse Approximation of Audio Signals Mads Christensen, Bob Sturm, Aalborg University
- MP8a2-3 Scalable Multimode Tree Coder with Perceptual Pre-Weighting and Post-Weighting for Wideband Speech Coding Ying-Yi Li, Jerry Gibson, University of California, Santa Barbara
- MP8a2-4 Isolated Word Endpoint Detection Using Time-Frequency Variance Kernels Alexandros Kyriakides, Costas Pitris, University of Cyprus; Andreas Spanias, Arizona State University
- MP8a2-5 Performance Enhanced Multi-Rate iLBC Koji Seto, Tokunbo Ogunfunni, Santa Clara University
- MP8a2-6 Enabling Improved Speaker Recognition by Voice Quality Estimation Anthony Bartos, Welkin Associates, Ltd.; Douglas Nelson, U.S. Department of Defense

Session MP8a3 Parameter Estimation

Chair: P.P. Vaidyanathan, California Institute of Technology

1:30 PM - 3:10 PM

MP8a3-1 On Spatial Smoothing of High Resolution Direction Finding of Real-Valued Sinusoidal Signals H. Howard Fan, University of Cincinnati; Stewart DeVilbiss, Air Force Research Laboratory

- MP8a3-2 Non-Uniform Linear Arrays for Improved Identifiability in Cumulant Based DOA Estimation

 Piya Pal, P. P. Vaidyanathan, California Institute of Technology
- MP8a3-3 Knowledge-Aided Direction Finding Based on Unitary ESPRIT

 Jens Steinwandt, Ilmenau University of Technology;

 Rodrigo C. de Lamare, University of York; Martin Haardt,

 Ilmenau University of Technology
- MP8a3-4 Maximum Likelihood Time Delay Estimation for CDMA Direct-Spread Multipath Transmissions Using Importance Sampling

 Ahmed Masmoudi, Faouzi Bellili, Sofiene Affes, INRS-EMT
- MP8a3-5 Particle Filter Based DOA Estimation for Multiple Source Tracking (MUST) Thomas Wiese, Technical University Munich; Heiko Claussen, Justinian Rosca, Siemens Corporation, Corporate Research
- MP8a3-6 Direction-of-Arrival Estimation Using Distributed Body Area Networks: Error & Refraction Analysis Kaveh Ghaboosi, Pranay Pratap Swar, Kaveh Pahlavan, Worcester Polytechnic Institute
- MP8a3-7 Bayesian Estimation of a Subspace
 Olivier Besson, University of Toulouse-ISAE; Nicolas
 Dobigeon, Jean-Yves Tourneret, University of Toulouse-IRIT/ENSEIHT
- MP8a3-8 Model Order Selection in Sensor Array Response Modeling Mário Costa, Andreas Richter, Visa Koivunen, Aalto University

Session MP8a4 DSP Algorithms and Architectures

Chair: Michael Schulte, AMD, USA

1:30 PM - 3:10 PM

- MP8a4-1 High Dynamic Range Adaptive Delta-Sigma Based Focal Plane Array Architecture Shun Yao, Marvel Semiconductors; Sam Kavusi, Khaled N Salama, King Abdullah University of Science and Technology
- MP8a4-2 Block Circular and Hyperbolic Transformations for the Block Fast Array RLS Algorithm Roger West, Todd Moon, Jacob (Jake) Gunther, Utah State University
- MP8a4-3 The Polyphase Random Demodulator for Wideband Compressive Sensing
 J.P. Slavinsky, Jason Laska, Richard Baraniuk, Rice
 University
- MP8a4-4 A Floating-Point Fused FFT Butterfly Arithmetic Unit with Merged Multiple-Constant Multipliers

 Jae Hong Min, Seong-Wan Kim, Earl Swartzlander,

 University of Texas at Austin

MP8a4-5 Exploiting Cross-Channel Quantizer Error Correlation in Time-Interleaved Analog-to-Digital Converters

Joseph G. McMichael, Shay Maymon, Alan V. Oppenheim,

Massachusetts Institute of Technology

Session MP8a5 Novel DSP Architectures

Chair: David Thomas, Imperial College London, UK

1:30 PM - 3:10 PM

- MP8a5-1 In-Service Reconfiguration of Signal Processing Components Gordon Brebner, Christopher Neely, Shay Seng, Xilinx, Inc.
- MP8a5-2 Rethinking Computation Using FPGA Based Accelerators for Large Applications Dennis Allison, Michael J Flynn, Oskar Mencer, Maxeler Technologies
- MP8a5-3 Versatile FPGA DSP Blocks with Carry-Save Arithmetic Support

 Hadi Parandeh Afshar, Paolo Ienne, École Polytechnique Fédérale de Lausanne (EPFL)
- MP8a5-4 Scalable Acceleration of High-Performance, Fourier-Domain Optical Coherence Tomography Lesley Shannon, Simon Fraser University
- MP8a5-5 Fine-Grain Reconfigurable Functional Unit for Embedded Processors

 Gian Carlo Cardarilli, Luca Di Nunzio, Rocco Fazzolari, Marco Re, University of Rome Tor Vergata
- MP8a5-6 Increasing Productivity of Reconfigurable Computing for Signal Processing

 Wayne Luk. Imperial College London
- MP8a5-7 Synchronous and Asynchronous Computations with Molecular Reactions

 Hua Jiang, Marc D. Riedel, Keshab K. Parh Parhi,
 University of Minnesota
- MP8a5-8 Design and Implementation of a Flexible Queue Manager for Next Generation Networks Qi Zhang, Roger Woods, Alan Marshall, Queen's University Belfast

Session TA1a Random Matrices in Signal Processing and MIMO Communications

Chair: Matthew McKay, Hong Kong University of Science and Technology

TA1a-1 Beyond Eckart-Young-Mirsky: Exploiting 8:15 AM Random Matrix Theory to Improve Subspace Approximation Raj Rao Nadakuditi, University of Michigan

TA1a-2	Beyond IID Gaussian Matrices in	8:40 AM
	Compressed Sensing	
	Antonia Tulino, Bell Laboratories, Alcatel-Lucent;	
	Giusanna Caira University of Southern California:	

Giuseppe Caire, University of Southern California; Shlomo Shamai, Technion-Israel Institute of Technology; Sergio Verdú, Princeton University

TA1a-3 Mutual Information Distribution of 9:05 AM
Interference-Limited MIMO: A Joint Coulomb
Fluid and Painlevel Based Approach
Shang Li, Hong Kong University of Science and
Technology; Yang Chen, Imperial College London;
Matthew McKay, Hong Kong University of Science and

TA1a-4 Outage Capacity for MIMO-OFDM Systems 9:30 AM in Block Fading Channels

Marco Chiani, University of Bologna; Andrea Conti,
University of Ferrara; Matteo Mazzotti, Enrico Paolini,
University of Bologna; Alberto Zanella, WiLab/IEIIT-BO
CNR

Session TA1b Biosignal Estimation and Classification

Technology

Co-Chairs: Ulisses Braga-Neto, Texas A&M University and Antonia Papandreou-Suppappola, Arizona State University

TA1b-1 A Real-Time Reconstruction Algorithm for 10:15 AM the Integrate and Fire Sampler

Alexander Singh Alvarado, Jose Principe, University of Florida

TA1b-2 Using Physiological Signals to Predict Apnea 10:40 AM in Preterm Infants

James Williamson, Daniel Bliss, David Browne, MIT

Lincoln Laboratory; Elisabeth Salisbury, Premananda

Indic, David Paydarfar, University of Massachusetts

Medical School

TA1b-3 Assessing Dysarthria Severity Using Global 11:05 AM Statistics and Boosting

Alicia DeMino, General Dynamics; Robert Kubichek,
University of Wyoming; Kevin Caves, Duke University

TA1b-4 Characterization of Human Use of Ethanol
Based on Video Games with Ethanol Rewards:
Model, System Identification and Statistical
Performance
Ipek Ozil, Cornell University; Martin H. Plawecki,
Indiana University School of Medicine; Peter C.
Doerschuk, Cornell University; Sean J. O'Connor, Indiana

University School of Medicine

Session TA2a Network Coding

Chair: Athina Markopoulou, University of California, Irvine

TA2a-1 Network Alignment 8:15 AM Syed Jafar, University of California, Irvine

TA2a-2	Network Coding for Data Replication over Wireless Networks Lorenzo Keller, Christina Fragouli, École Polytechni Fédérale de Lausanne (EPFL)	8:40 AM que
TA2a-3	A Fundamental Approach to Securing Data in the Cloud from Adversarial Attacks Salim El Rouayheb, Sameer Pawar, Kannan Ramchandran, University of California, Berkeley	9:05 AM
TA2a-4	Network Coding for Security and Privacy Tracey Ho, California Institute of Technology	9:30 AM
Session T		
	Selective Channels	
Chair: Andy	Klein, Worcester Polytechnic Institute	
TA2b-1	Distributed Single Carrier Frequency-Domain Equalization for Multi-Relay Cooperative Netwover Frequency Selective Rician Channels Homa Eghbali, Sami Muhaidat, Simon Fraser University of Science, Ibrahim Abualhaol, Khalifa University of Science, Technology and Research	orks
TA2b-2	Cooperative BICM-OFDM Systems for Frequency-Selective Relay Channels Reza Heidarpour, Murat Uysal, University of Waterlo	10:40 AM
TA2b-3	On Relay Selection in Frequency Selective Channels Qingxiong Deng, Andrew Klein, Worcester Polytechn Institute	11:05 AM ic
TA2b-4	Superposition Coding for Cooperative BICM-OFDM Systems Toufiqul Islam, Robert Schober, University of British Columbia; Ranjan K Mallik, Indian Institute of Technology, Delhi; Vijay K Bhargava, University of E Columbia	11:30 AM
Session T	A3a Advances in Compressive Se	nsing
Chair: Chris	stoph Studer, Rice University	
TA3a-1	An Empirical-Bayes Approach to Compressive Sensing via Approximate Messag Passing Jeremy Vila, Philip Schniter, Ohio State University	8:15 AM e
TA3a-2	Compressive Sensing under Multiplicative Uncertainties: An Approximate Message Passin Approach Jason Parker, Air Force Research Laboratory; Volkan Cevher, École Polytechnique Fédérale de Lausanne (EPFL); Philip Schniter, Ohio State University	
TA3a-3	Compressive Sensing: to Compress or not to Compress Davis Kirachaiwanich, Qilian Liang, University of To at Arlington	9:05 AM
TA3a-4	Spread Representations Jean Jacques Fuchs, Université de Rennes 1	9:30 AM

Session TA3b Sparse Reconstruction

Chair: Geert Leus, Technical University of Delft

TA3b-1	New Bounds for Restricted Isometry	10:15 AM
	Constants in Orthogonal Multi Matching P	ursuit
	Jian Wang, Byonghyo Shim, Korea University	

TA3b-2 Cyclic Greedy Algorithms for Recovering 10:40 AM Compressively Sampled Sparse Signals

Bob Sturm, Mads Christensen, Aalborg University; Rémi
Gribonval, INRIA

TA3b-3 Greedy Sparsity-Constrained Optimization 11:05 AM
Sohail Bahmani, Carnegie Mellon University; Petros
Boufounos, Mitsubishi Electric Research Labs; Bhiksha
Raj, Carnegie Mellon University

TA3b-4 Power-Iterative Strategy for lp-l2 11:30 AM
Optimization for Compressive Sensing: Towards
Global Solution
Jie Yan, Wu-Sheng Lu, University of Victoria

Session TA4a Next Generation Network Science

Co-Chairs: Victor Preciado, University of Pennsylvania and Ali Jadbabaie, University of Pennsylvania

TA4a-1 Network Synthesis for Dynamical System 8:15 AM Stabilization

Miroslav Pajic, University of Pennsylvania; Shreyas Sundaram, University of Waterloo; George Pappas, Rahul Mangharam, University of Pennsylvania

TA4a-2 A Contrasting Look at Network Formation 8:40 AM Models and Their Application to the Minimum Spanning Tree

David Alderson, Gerald Brown, Naval Postgraduate School; D.B. McPherson, U.S. Navy

TA4a-3 The Role of Local Structural Information in Viral Information Spreading

Victor Preciado, Ali Jadbabaie, University of

Pennsylvania

9:05 AM

Pennsylvania

TA4a-4 Learning, Memory and the Role of Neural 9:30 AM Network Architecture

Ann Hermundstad, Kevin Brown, Danielle Bassett, Jean
Carlson, University of California, Santa Barbara

Session TA4b Bio-inspired Models and Algorithms for Information Processing in Complex Networks

Chair: Usman Khan, Tufts University

TA4b-1 On Scheduling Without a Master Clock: 10:15 AM Coupled Oscillator Time Division Multiplexing Andrea Rueetschi, Anna Scaglione, University of California, Davis

TA4b-2	On the Effects of Topology and Node Distribution on Learning over Complex Adapti Networks Sheng-Yuan Tu, Ali H. Sayed, University of Californi Angeles	
TA4b-3	Discrete-Time Opinion Dynamics Seyed Rasoul Etesami, Angelia Nedic, University of Illinois at Urbana-Champaign	11:05 AM
TA4b-4	Gossiping Information Dissemination Through Distributed Femtocell Caching Alexandros Dimakis, University of Southern Californ	11:30 AM
Session T	A5a Image and Video Retrieval	
Chair: Rame	akrishna Vedantham, Nokia Research	
TA5a-1	Mobile Visual Search Using Image and Text Features Sam Tsai, Huizhong Chen, David Chen, Stanford University; Ramakrishna Vedantham, Radek Grzeszc Nokia; Bernd Girod, Stanford University	8:15 AM zuk,
TA5a-2	A Compact Index for Large-Scale Mobile Visual Search David Chen, Sam Tsai, Vijay Chandrasekhar, Gabrie Takacs, Huizhong Chen, Stanford University; Ramakrishna Vedantham, Radek Grzeszczuk, Nokia Research Center; Bernd Girod, Stanford University	8:40 AM
TA5a-3	Multiple-Channel Compact Visual Descriptor with Adaptive Channel Learning Rongrong Ji, Harbin Institute of Technology; Ling-Yu Duan, Jie Chen, Peking University; Hongxun Yao, H Institute of Technology; Tiejun Huang, Wen Gao, Pel University	arbin
TA5a-4	Efficient Re-Ranking in Vocabulary Tree-Based Image Retrieval Xiaoyu Wang, University of Missouri; Ming Yang, Ka NEC Laboratories America, Inc.	9:30 AM ai Yu,
Session T	A5b Sparse Representations with	l
	Applications to Images and	Video
Chair: Trac	Tran Tran, Johns Hopkins University	
TA5b-1	Robust Multi-Dimensional Scaling via Outlier Sparsity Control Pedro Forero, Georgios Giannakis, University of Minnesota	10:15 AM
TA5b-2	Architectures for Compressive Sampling of Correlated Signals Ali Ahmed, Justin Romberg, Georgia Institute of Technology	10:40 AM
TA5b-3	Compressed-Sensing Recovery of Images and Video Using Multi-Hypothesis Predictions Chen Chen, Eric Tramel, James Fowler, Mississippi University	

TA5b-4	Sparsity-Based Human Activity Recognition for Mobile Computing Devices Victor Shia, Allen Yang, Ruzena Bajcsy, University of California, Berkeley	
TA5b-5	Sparsity-Based Face Recognition Using Discriminative Graphical Models Umamahesh Srinivas, Vishal Monga, Pennsylvania S University; Yi Chen, Trac D. Tran, The Johns Hopkin University	
Session T	A6a Waveform Design and MIM	O
	Radar	
Chair: Visa	Koivunen, Aalto University	
TA6a-1	Cluster Allocation Schemes for Target Tracking in Multiple Radar Architectures Hana Godrich, Princeton University; Athina Petropa Rutgers University; H. Vince Poor, Princeton Univer	
TA6a-2	Synergistic MIMO SAR and GMTI Duc Vu, Luzhou Xu, Jian Li, University of Florida	8:40 AM
TA6a-3	Resource Allocation in Widely Distributed MIMO Radars in Non-Ideal Conditions Tuomas Aittomaki, Aalto University; Hana Godrich, Rutgers University; Visa Koivunen, Aalto University, Vincent Poor, Princeton University	9:05 AM
TA6a-4	Centralized and Distributed Tests for Moving Target Detection with MIMO Radars in Clutter Non-Homogeneous Power Pu Wang, Hongbin Li, Stevens Institute of Technolog Braham Himed, Air Force Research Laboratory	
Session T	A6b Network Beamforming and	
	Relaying via Multiple Anten	nas
Chair: Sergi	y Vorobyov, University of Alberta	
TA6b-1	Collaborative Beamforming in Wireless Sensor Networks Serkan Sayilir, Yung-Hsiang Lu, Dimitrios Peroulis, Charlie Hu, Byunghoo Jung, Purdue University	10:15 AM Y.
TA6b-2	Joint Power Control and Relay Design in Underlay Cognitive Networks with Multiple Transmitter-Receiver Pairs Keyvan Zarifi, Sofiene Affes, INRS-EMT; Ali Ghrayei	10:40 AM
TA6b-3	Concordia University Beamforming in MIMO Broadcast Relay Networks with Multiple Antenna Users Godfrey Okeke, Yindi Jing, Witold Krzymien, University of Alberta	11:05 AM

A Relay Selection Approach to Bi-Directional 11:30 AM

Collaborative Communications with Imperfect CSI Fadhel Al-Humaidi, Shahram ShahbazPanahi, University

of Ontario Institute of Technology

TA6b-4

Session TA7 Architectures for Wireless Communications

Chair: Joe Cavallero, Rice University

TA7-1	An Efficient Architecture for Iterative Soft Reliability-Based Majority-Logic Non-Binary LDPC Decoding Xinmiao Zhang, Fang Cai, Case Western Reserve University	8:15 AM
TA7-2	Architecture Exploration, Development and Teaching Platform for Orthogonal Frequency Division Multiplexing (OFDM) Systems Antonio Mondragon-Torres, Mahesh Kommi, Tamog Bhattacharya, Rochester Institute of Technology	8:40 AM ghna
TA7-3	Improved Iterative Soft-Reliability-Based Majority-Logic Decoding Algorithm for Non- Binary Low-Density Parity-Check Codes Chenrong Xiong, Zhiyuan Yan, Lehigh University	9:05 AM
TA7-4	LTE Layer 1 Software Design on Multi-Core DSP Architectures Arokia Irudayaraj, Michael Brogioli, Nitin Jain, Um Garg, Freescale Semiconductor, Inc.	O
	BREAK	9:55 AM
TA7-5	Efficient FPGA Implementation of a High Throughput Systolic Array QR-Decomposition Algorithm Matthias Abels, Till Wiegand, Steffen Paul, Universit Bremen	
TA7-6	Comparison of Performance and 10:40 AM Implementation Complexity of Soft-Output Sphere Detectors for MIMO-OFDM Systems Markus Myllyla, Renesas Mobile Europe Ltd	
TA7-7	Time and Power Optimization in FPGA Based Architectures for Polyphase Channelize Mehmood Awan, Peter Koch, Aalborg University; fr harris, San Diego State University	
TA7-8	Hardware Implementation of Kuiper-Based Modulation Level Classification	11:30 AM

Session TA8a1 Signal Processing Methods for Representation, Analysis, and Control of Biological Systems

California, Los Angeles

Paulo Urriza, Eric Rebeiz, Danijela Cabric, University of

Co-Chairs: Byung-Jun Yoon, Texas A&M and Xiaoning Qian, University of South Florida

8:15 AM - 9:55 AM

TA8a1-1 Exact MSE Performance of the Bayesian MMSE Estimator for Classification Error

Lori A. Dalton, Edward R. Dougherty, Texas A&M

University

- TA8a1-2 Misaligned Principal Component Analysis (Mis-PCA) for Gene Expression Time Series Analysis

 Arnau Tibau-Puig, Alfred Hero, University of Michigan
- TA8a1-3 Optimal Intervention Strategies for Cyclic Therapeutic Methods with Fixed-Length Duration of Effect Mohammadmahdi R. Yousefi, Aniruddha Datta, Edward R. Dougherty, Texas A&M University
- TA8a1-4 Maximum Likelihood Estimation of the Binary Coefficient of Determination

 Ting Chen, Ulisses Braga-Neto, Texas A&M University
- TA8a1-5 An MCMC Algorithm for Base Calling in Sequencingby-Synthesis
 Ting Wu, Haris Vikalo, University of Texas at Austin
- TA8a1-6 Relationships Between Genetic Regulatory Network Models

 Mehmet Umut Caglar, Ranadip Pal, Texas Tech University
- TA8a1-7 Bayesian Networks Modeling of Cellular Regulatory
 Pathways
 Chen Zhao, Ivan Ivanov, Texas A&M University; Michael
 Bittner, Translational Genomics Research Institute;
 Edward Dougherty, Texas A&M University
- TA8a1-8 Haplotype Inference Based on Sparse Dictionary Selection
 Guido Hugo Jajamovich, Xiaodong Wang, Columbia
 University
- TA8a1-9 Surface-Constrained 3D Reconstruction in Cryo-EM Andrew C. Barthel, Hemant Tagare, Fred J. Sigworth, Yale University
- TA8a1-10 Phenotypically Constrained Stationary Control Policies for Gene Regulatory Network Intervention

 Xiaoning Qian, University of South Florida; Edward

 Dougherty, Texas A&M University
- TA8a1-11 Prediction of Cancer Subtypes Using Bayesian Factor Network Model Jia Meng, University of Texas at San Antonio; Manuel Sánchez Castillo, University of Granada; Jianqiu Zhang, University of Texas at San Antonio; Isabel Maria Tienda Luna, University of Granada; Yufei Huang, University of Texas at San Antonio
- TA8a1-12 Dynamical Processes on Networks: A Unified View Garrett Jenkinson, John Goutsias, The Johns Hopkins University
- TA8a1-13 A Brief Review of Signal Processing Issues in Mass Spectrometry-Based Proteomics Studies Chao Yang, Weichuan Yu, Hong Kong University of Science and Technology
- TA8a1-14 Fault Detection and Intervention in Biological Feedback Networks
 Ritwik Layek, Aniruddha Datta, Texas A&M University
- TA8a1-15 Fast Global Sequence Alignment Algorithm

 Talal Bonny, Khaled Nabil Salama, King Abdullah

 University of Science and Technology

TA8a1-16 Optimal State Estimation for Boolean Dynamical Systems

Ulisses Braga-Neto, Texas A&M University

Session TA8a2 Receiver Design and Optimization

Chair: Lara Dolecek, UCLA

8:15 AM - 9:55 AM

- TA8a2-1 Incorporating Prior Information into Semi-Definite Relaxation of Quadratic Optimization Problems *Jacob (Jake) Gunther, Todd Moon, Utah State University*
- TA8a2-2 Diversity of the MMSE Receiver in Flat Fading and Frequency Selective MIMO Channels at Fixed Rate Florian Dupuy, Thales Communication / Université Paris Est; Philippe Loubaton, Université Paris Est
- TA8a2-3 Predicting the Pruning Potential on the Sphere Decoding for Multiple-Input Multiple-Output Detection Hwanchol Jang, Gwangju Institute of Science and Technology; Saeid Nooshabadi, Michigan Technological University; Heung-No Lee, Gwangju Institute of Science and Technology
- TA8a2-4 Computationally Efficient Design of the MAE Equalizer for Binary Signaling

 Weiwei Zhou, Jill Nelson, George Mason University;

 Ananya Sen Gupta, Woods Hole Oceanographic Institution
- TA8a2-5 Broadband Doppler Compensation: Principles and New Results

 Thomas Riedl, Andrew Singer, University of Illinois at Urbana-Champaign
- TA8a2-6 Optimal Pilot Symbol Power Allocation in Multi-Cell Scenario in LTE

 Michal Simko, Markus Rupp, Vienna University of Technology
- TA8a2-7 Coherent Demodulation of AIS-GMSK Signals in Co-Channel Interference Douglas Nelson, Joseph Hopkins, U.S. Department of Defense; Anthony Bartos, Welkin Associates, Ltd.
- TA8a2-8 On the Stability of DSP Based PI Phase-Locked Loops Containing Matched Filter Delays fredric harris, San Diego State University; Behrouz Farhang-Boroujeny, University of Utah

Session TA8a3 Communications System Design

Chair: Marco Chiani, University Bologna

8:15 AM - 9:55 AM

TA8a3-1 Spatially-Aware Adaptive Error Correcting Codes for Flash Memory

Ryan Gabrys, Lara Dolecek, University of California, Los Angeles

- TA8a3-2 An SDR Architecture for OFDM Transmission over USRP2 Boards
 Gilberto Berardinelli, Aalborg University; Per Zetterberg, KTH Royal Institute of Technology; Oscar Tonelli, Andrea F. Cattoni, Troels B. Sørensen, Preben Mogensen, Aalborg University
- TA8a3-3 Environmental-Aware Heterogeneous Partial Feedback Design in a Multi-User OFDMA System Yichao Huang, Bhaskar D. Rao, University of California, San Diego
- TA8a3-4 Adaptive OFDM for Underwater Acoustic Channels with Limited Feedback

 Andreja Radosevic, University of California, San Diego;

 Tolga Duman, Arizona State University; John Proakis,

 University of California, San Diego; Milica Stojanovic,

 Northeastern University
- TA8a3-5 A 512-Point 8-Parallel Pipelined Feedforward FFT for WPAN

 Tanvir Ahmed, Mario Garrido, Oscar Gustafsson,
 Linköping University
- TA8a3-6 On the Convergence of Joint Channel and Mismatch Estimation for Time-Interleaved Data Converters Sandeep Ponnuru, Upamanyu Madhow, University of California, Santa Barbara
- TA8a3-7 Comparison of Energy- and Spectral-Efficient Design for LTE Downlink Systems

 Liying Li, University of Electronic Science and Technology of China; Jiancun Fan, Xi'an Jiaotong University; Gang Wu, Hongbing Xu, University of Electronic Science and Technology of China; Geoffrey Ye Li, Georgia Institute of Technology
- TA8a3-8 An Efficient Cascade of Half-Band Filters for Software Defined Radio Transmitters fred harris, Xiaofei Chen, Elettra Venosa, San Diego State University

Session TA8a4 Applications of Array Processing

Chair: Giuseppe Abreu, Oulu University, Finland

8:15 AM - 9:55 AM

- TA8a4-1 An SVD Approach for Data Compression in Emitter Location Systems

 Mohammad Pourhomayoun, Mark Fowler, Binghamton
 University
- TA8a4-2 Detection Properties of Some Sparse Representation Approaches

 Jean Jacques Fuchs, Université de Rennes 1
- TA8a4-3 Estimating Bridge Displacement from Acceleration
 Using Modal Analysis and the Minimum Description
 Length Principle
 Viswanadh Kandula, Linda DeBrunner, Victor DeBrunner,
 Michelle Rambo-Rodenberry, Florida State University
- TA8a4-4 Non-Uniform Sparse Array Design for Active Sensing Ching-Chih Weng, P. P. Vaidyanathan, California Institute of Technology

- TA8a4-5 MIMO Radar Target Measurements

 Kyle Stewart, Mark Frankford, Joel Johnson, Emre Ertin,

 Ohio State University
- TA8a4-6 Efficient Removal of Noise and Interference in Multichannel Quadrupole Resonance Naveed Razzaq Butt, Andreas Jakobsson, Lund University
- TA8a4-7 Time Reversal Bayesian Ultrasonic Array Imaging for Non-Destructive Testing

 Foroohar Foroozan, Nasim Moallemi, Shahram

 ShahbazPanahi, University of Ontario Institute of Technology
- TA8a4-8 Energy-Efficient MMSE Beamforming and Power Optimization in Multibeam Satellite Systems

 Gan Zheng, Symeon Chatzinotas, Bjorn Ottersten, SnT,

 University of Luxembourg
- TA8a4-9 Equidistributed Sampling Sequences for Spectral Analysis

 Mustafa Al-Ani, Andrzej Tarczynski, University of Westminster

Session TA8b1 Multiple Antennas in Multi-User Systems and Networks

Chair: Shuguang Cui, Texas A&M University

10:15 AM - 12:00 PM

- TA8b1-1 Low Complexity Spatial Multiuser Pairing in SC-FDMA Uplink

 Jiancun Fan, Xi'an Jiaotong University; Geoffrey Ye Li,

 Georgia Institute of Technology; Qinye Yin, Xi'an Jiaotong

 University; Bingguang Peng, Xiaolong Zhu, Huawei

 Shanghai Research Institute
- TA8b1-2 Maximum-Likelihood Decoding in Decode-and-Forward Based MIMO Cooperative Communication Systems Manav Bhatnagar, Ankur Bansal, Indian Institute of Technology, Delhi; Are Hjørungnes, UNIK, University of Oslo; Zhu Han, University of Houston
- TA8b1-3 Complex Interference Optimization for Power Loss Reduction in MIMO-THP Transmission Christos Masouros, Mathini Sellathurai, Tharm Ratnarajah, Queen's University Belfast; Ying-Chang Liang, Institute for Infocomm Research
- TA8b1-4 Channel Tracking for D-BLAST for Airborne Platforms

 Kapil Borle, Biao Chen, Syracuse University; Michael

 Gans, Air Force Research Laboratory
- TA8b1-5 Interference Alignment for Multiple-Antenna Amplifyand-Forward Relay Interference Channel Kien T. Truong, Robert W. Heath, Jr., University of Texas at Austin
- TA8b1-6 Null Space Interference Alignment in MIMO Cellular Networks *Taejoon Kim, David Love, Purdue University; Bruno Clerckx, Samsung Electronics*

- TA8b1-7 On Grouped OFDM-IDMA

 Jian Dang, Southeast University; Liuqing Yang, Colorado

 State University; Zaichen Zhang, Southeast University
- TA8b1-8 Coordinated Multi-Cell Beamforming for LTE-Advanced Systems
 Qixing Wang, Guangyi Liu, China Mobile Research Institute; Shuguang Cui, Texas A&M University
- TA8b1-9 Linear Transceiver Design for Interfering Broadcast Channel with QoS Constraints Meisam Razaviyayn, Zhi-Quan Luo, University of Minnesota
- TA8b1-10 Cooperative Feedback for MIMO Interference Channels Kaibin Huang, Yonsei University; Rui Zhang, National University of Singapore
- TA8b1-11 Eigen-Mode Transmission for Jointly Correlated MIMO Broadcast Channels

 Xiao Li, Shi Jin, Xiai Gao, Southeast University
- TA8b1-12 How Many Degrees of Freedom Can Be Achieved for Mutually Interfering MIMO Broadcast Channels?

 Hyukjin Chae, Sungyoon Cho, Kaibin Huang, Dongku Kim, Yonsei University
- TA8b1-13 Distributed Beamforming Based Directional Spectrum Sharing

 Juan Liu, Wei Chen, Zhigang Cao, Tsinghua University;

 Ying Jun Zhang, Chinese University of Hong Kong
- TA8b1-14 Spatially Efficient Distributed Relay Selection for Random Relay Networks Sungrae Cho, Wan Choi, Korea Advanced Institute of Science and Technology; Kaibin Huang, Yonsei University
- TA8b1-15 Channel State Information Feedback Control for Interference Alignment

 Lingyang Song, Peking University; Zhu Han, University of Houston; Shaohui Sun, Datang Mobile; Bingli Jiao, Peking University
- TA8b1-16 Self-Optimized MIMO-OFDMA: A Nash-Stackelberg Game-Theoretic Approach Jie Ren, Jianjun Hou, Beijing Jiaotong University; Kai-Kit Wong, University College London

Session TA8b2 Cooperative and Cognitive Transmission in Multi-Antenna Systems

Chair: Daniel Bliss, MIT Lincoln Laboratory

10:15 AM - 12:00 PM

TA8b2-1 Cooperative Rate Maximization Based on Base Station Exchange of Powers Samer Bazzi, Guido Dietl, DoCoMo Communications Laboratories Europe GmbH

- TA8b2-2 Half-Duplex Gaussian Diamond Relay Channel with Interference Known at One Relay

 Kagan Bakanoglu, Elza Erkip, Polytechnic Institute of New York University; Osvaldo Simeone, New Jersey Institute of Technology
- TA8b2-3 Interference Management in Femtocell Networks with Hybrid-ARQ and Interference Cancellation Tania Villa, Eurecom; Ruben Merz, Deutsche Telekom Laboratories; Raymond Knopp, Eurecom
- TA8b2-4 Achievable Degrees of Freedom of the K-User Interference Channel with Partial Cooperation Ahmed Naguib, Khaled Elsayed, Cairo University; Mohammed Nafie, Nile University
- TA8b2-5 Multicell Downlink Weighted Sum-Rate Maximization: A Distributed Approach Pradeep Chathuranga Weeraddana, Marian Codreanu, Matti Latva-aho, Centre for Wireless Communications
- TA8b2-6 Decentralized Multi-Cell Beamforming Coordination for Multiuser MISO Systems

 Harri Pennanen, Antti Tölli, Matti Latva-aho, University of Oulu
- TA8b2-7 Feedback Reduction by Thresholding in Multi-User Broadcast Channels: Design and Limits Matthew Pugh, Bhaskar D. Rao, University of California, San Diego
- TA8b2-8 Full-Duplex Bidirectional MIMO: Achievable Rates under Limited Dynamic Range
 Brian Day, Ohio State University; Daniel Bliss, Adam
 Margetts, MIT Lincoln Laboratory; Philip Schniter, Ohio
 State University

Session TA8b3 Adaptive Sensing

Chair: Jarvis Haupt, University of Minnesota

10:15 AM - 12:00 PM

- TA8b3-1 Adaptive Search for Sparse Moving Targets under Resource Constraints

 Gregory Newstadt, Eran Bashan, Alfred O. Hero,
 University of Michigan
- TA8b3-2 Adaptive Signal Recovery in Noisy Environments

 Mark Iwen, Duke University; Ahmed Tewfik, University of
 Texas at Austin
- TA8b3-3 On the Limits of Sequential Testing in High Dimensions Matthew Malloy, Robert Nowak, University of Wisconsin
- TA8b3-4 Active Learning for Adaptive Life-Long Learning

 Lawrence Carin, Duke University; Hui Li, Signal

 Innovations Group
- TA8b3-5 Efficient Adaptive Compressive Sensing Using Sparse Hierarchical Learned Dictionaries Akshay Soni, Jarvis Haupt, University of Minnesota
- TA8b3-6 Information-Optimal Adaptive Compressive Imaging Amit Ashok, Mark Neifeld, University of Arizona

TA8b3-7	On Primary Side Information in Cognitive Radio Networks May Moussa, Mohammed Nafie, Nile University; Hesham ElGamal, Ohio State; Ayman Naguib, Qualcomm Incorporated		
TA8b3-8	Further Results on Adaptive Sequential Detection One-Sided Stopping and Deadline Wenyi Zhang, University of Science and Technology of China; Ahmed Sadek, Stephen Shellhammer, Cong She Qualcomm Incorporated	ſ	
Session T	P1a Resource Allocation in Multi-		
	Antenna Systems		
Chair: Neel	esh Mehta, Indian Institute of Science		
TP1a-1	Optimal Power Allocation for Multi-User Transmit Beamforming via Regularized Channe Inversion Rusdha Muharar, Jamie Evans, University of Melbour		
TP1a-2	Capacity Density Optimization by Fractional Frequency Partitioning Martin Taranetz, Josep Colom Ikuno, Markus Rupp, Vienna University of Technology	1:55 PM	
TP1a-3	Resource Allocation in MIMO Multi-Cellular Networks via Submodular Optimization Narayan Prasad, Honghai Zhang, NEC Laboratories America, Inc.; Luca Venturino, University of Cassino; Jubin Jose, University of Texas at Austin; Sampath Rangarajan, NEC Laboratories America, Inc.	2:20 PM	
TP1a-4	Transmit Power Optimization for Multi-Antenna Decode-and-Forward Relays wit Loopback Self-Interference from Full-Duplex Operation Taneli Riihonen, Stefan Werner, Risto Wichman, Aalto University	2:45 PM h	
Session T	TP1b Interference Management		
Chair: Aydin	n Sezgin, University of Ulm		
TP1b-1	Degrees of Freedom of Multiple Unicasts over Multihop Wireless Networks Syed Jafar, University of California, Irvine	3:30 PM	
TP1b-2	Optimized Data Symbol Sharing in Multiple-Antenna Interference Channel Maha Odeh, Paul De Kerret, David Gesbert, Eurecom	3:55 PM	
TP1b-3	On Interference Channels with more than Two Source-Destination Pairs Daniela Tuninetti, University of Illinois, Chicago	4:20 PM	
TP1b-4	Training and Feedback Optimization For MIMO Interference Alignment in Continuous Fading Channels Omar El Ayach, Angel Lozano, Universitat Pompeu Fabra; Robert W. Heath, Jr., University of Texas at Au	4:45 PM	

TP1b-5	Making Optimal Use of the Asymmetric Interference Channel Rachel Learned, MIT Lincoln Laboratory	5:10 PM
Session T	P2a Cognitive Radio I	
Chair: Gesu	aldo Scutari, University at Buffalo	
TP2a-1	Joint Link Learning and Cognitive Radio Network Sensing Seung-Jun Kim, Georgios Giannakis, University of Minnesota	1:30 PM
TP2a-2	Spectrum Sensing via Event-Triggered Sampling Yasin Yilmaz, Xiaodong Wang, Columbia University	1:55 PM
TP2a-3	Proactive Resource Allocation in Cognitive Networks John Tadrous, Atilla Eryilmaz, Hesham El-Gamal, Oh State University	2:20 PM <i>io</i>
TP2a-4	Correlated Equilibrium Learning Algorithms for Dynamic Spectrum Access Omid Namvar Gharehshiran, Vikram Krishnamurthy, University of British Columbia	2:45 PM
Session T	TP2b Cognitive Radio II	
Chair: Gesu	aldo Scutari, University at Buffalo	
TP2b-1	Extreme Eigenvalue Distributions of Finite Random Wishart Matrices with Application to Spectrum Sensing Giuseppe Abreu, University of Oulu; Wensheng Zhang Mamiko Inamori, Yukitoshi Sanada, Keio University	3:30 PM
TP2b-2	Autocorrelation-Based Multi-Antenna Spectrum Sensing in Colored Noise Jitendra Tugnait, Auburn University	3:55 PM
TP2b-3	Decentralized Cognition via Randomized Masking Kamyar Moshksar, Amir Khandani, University of Wate	4:20 PM
TP2b-4	Spectrum Leasing via Cooperative Opportunistic Routing in Distributed Ad Hoc Networks: Optimal and Heuristic Policies Cristiano Tapparello, Davide Chiarotto, Michele Ross University of Padova; Osvaldo Simeone, New Jersey Institute of Technology; Michele Zorzi, University of Padova	4:45 PM i,
TP2b-5	A Message-Passing Algorithm for Spectrum Access in Cognitive Radio Relay Networks Sang Hyun Lee, Manohar Shamaiah, Sriram Vishwand Haris Vikalo, University of Texas at Austin	5:10 PM <i>ath</i> ,

Session TP3a Multi-dimensional Compressive Inference

Chair: Phil Schniter, The Ohio State University

TP3a-1	Real-Time Principal Component Pursuit Graeme Pope, Manuel Baumann, ETH Zurich; Chris. Studer, Rice University; Giuseppe Durisi, Chalmers University of Technology	1:30 PM toph
TP3a-2	Low Rank Variational Tensor Recovery for Multi-Linear Inverse Problems Hatim Alqadah, Howard Fan, University of Cincinna	1:55 PM ti
TP3a-3	Optimized Measurements for Kernel Compressive Sensing Karthikeyan Natesan Ramamurthy, Andreas Spanias, Arizona State University	2:20 PM
TP3a-4	Efficient Message Passing-Based Inference in the Multiple Measurement Vector Problem <i>Justin Ziniel, Philip Schniter, Ohio State University</i>	2:45 PM
Session 7	•	
	Distributed Filtering	
Chair: Vito	r Nascimento, University of Sao Paulo	
TP3b-1	Continuous-Time Distributed Estimation Vitor Nascimento, University of Sao Paulo; Ali Sayed University of California, Los Angeles	3:30 PM
TP3b-2	Sequential Likelihood Consensus and Application to Distributed Particle Filtering wit Reduced Communications and Latency Ondrej Sluciak, Ondrej Hlinka, Markus Rupp, Franz Hlawatsch, Vienna University of Technology; Petar Djuric, Stony Brook University	3:55 PM h
TP3b-3	A Unifying Framework for the Analysis of Quaternion-Valued Adaptive Filters Clive Cheong Took, Cyrus Jahanchahi, Danilo Mand Imperial College London	4:20 PM <i>ic,</i>
TP3b-4	Joint Conditional and Steady-State Probability Densities of Weight Deviations for Proportionate-Type LMS Algorithms Kevin Wagner, Naval Research Laboratory; Miloš Doroslovacki, George Washington University	4:45 PM
TP3b-5	Fast and Superfast Computations in Structured Equalization Scenarios Ricardo Merched, Universidade Federal do Rio de Jo	5:10 PM
Session 7		_
	Robot Networks	
Chair: Mich	hael Zavlanos, Stevens Institute of Technology	
TP4a-1	Co-Optimization of Communication and Motion Planning of a Robotic Operation in Fad Environments	1:30 PM ing

Yuan Yan, Yasamin Mostofi, University of New Mexico

TP4a-2	A Framework for Integrating Mobility and Routing in Mobile Communication Networks Michael M. Zavlanos, Stevens Institute of Technology; Alejandro Ribeiro, George J. Pappas, University of Pennsylvania				
TP4a-3	Multi-Robot Path Following with Visual Connectivity Magnus Lindhé, Royal Institute of Technology; Tamas Keviczky, Delft University of Technology; Karl Henrik Johansson, Royal Institute of Technology	2:20	PM		
TP4a-4	Communication Network Challenges for Collaborative Vehicles Pedram Hovareshti, Chen Hua, John Baras, University Maryland	2:45 y of	PM		
Session T	TP4b Distributed Storage Systems				
Chair: Alex	Dimakis, University of Southern California				
TP4b-1	Codes for Robust Scalable Distributed Video-on-Demand Systems Sameer Pawar, Salim El Rouayheb, Hao Zhang, University of California, Berkeley; Parimal Parag, Te. A&M University; Kannan Ramchandran, University of California, Berkeley	3:30 xas f	PM		
TP4b-2	Error Coding for Long-Term Archival Storage Systems Ethan Miller, Ian Adams, Jingpei Yang, Daniel Rosent Darrell Long, University of California, Santa Cruz	3:55 hal,	PM		
TP4b-3	Theoretical Problems in Fault-Tolerant Distributed Storage James Plank, University of Tennessee	4:20	PM		
TP4b-4	Survey of Non-MDS Erasure Codes for Distributed Storage Systems Jay Wylie, Hewlett-Packard Labs	4:45	PM		
Session T	CP5 Compressive Sensing for Rad	ar			
Chair: Rabi	nder Madan, U.S. Office of Naval Research				
TP5-1	Compressive Sensing: Snake Oil or Good Idea? Fred Daum, Raytheon	1:30	PM		
TP5-2	Compressive Sensing for Synthetic Aperture Radar in Fast-Time and Slow-Time Domains Qilian Liang, University of Texas at Arlington				
TP5-3	Comparison of MMOSPA and Compressed Sensing for Radar Array Processing David Crouse, Peter Willett, University of Connecticus Lennart Svensson, Chalmers University; Yaakov Bar- Shalom, University of Connecticut	2:20	PM		
TP5-4	Support Recovery in Compressive Sensing for Estimation of Direction-of-Arrival Zhiyuan Weng, Xin Wang, Stony Brook University	2:45	PM		

	BREAK	3:10 PM
TP5-5	Explore Group Sparsity for Compressive Sensing Based MIMO Radar Yao Yu, Athina Petropulu, Junzhou Huang, Rutgers University	3:30 PM
TP5-6	On the Role of Waveform Diversity in MIMO Radar Benjamin Friedlander, University of California, Santa Cruz	3:55 PM
TP5-7	Non-Coherent Compressive Sensing for MIMO Radar with Widely Separated Antennas Christian Berger, Jose' Moura, Carnegie Mellon University	4:20 PM
TP5-8	Global Methods for Compressive Sensing in MIMO Radar with Distributed Sensors Marco Rossi, Alexander M. Haimovich, New Jersey Institute of Technology; Yonina C. Eldar, Technion-Isra Institute of Technology	4:45 PM
Session T	P6a Source Localization	
Chair: Mura	alidhar Rangaswamy, Purdue University	
TP6a-1	Robust Time-Based Localization for Asynchronous Networks with Clock Offsets Yiyin Wang, Delft University of Technology; Xiaoli Ma, Georgia Institute of Technology; Geert Leus, Delf University of Technology	1:30 PM
TP6a-2	Conditioned MDS with Heterogeneous Information Davide Macagnano, Giuseppe Abreu, University of Ou	1:55 PM
TP6a-3	Cooperative Multihop Localization with Privacy Golaleh Rahmatollahi, Leibniz University Hannover; Giuseppe Abreu, University of Oulu; Stefano Severi, University of Bologna	2:20 PM
TP6a-4	Design and Performance of an Integrated Waveform-agile Multi-Modal Track-before-Dete Sensing System Jun Zhang, Arizona State University; Surendra Bhat, Pennsylvania State University; Quan Ding, University, Rhode Island; Antonia Papandreou-Suppappola, Arizo	of

Array Processing for Satellite Session TP6b **Communications**

Chair: Michael Joham, Technical University Munich

TP6b-1 On the Capacity of Multi-Beam Joint 3:30 PM Decoding over Composite Satellite Channels Dimitrios Christopoulos, Symeon Chatzinotas, University of Luxembourg; Michail Matthaiou, Chalmers University of Technology; Björn Ottersten, University of Luxembourg

State University; Ram Narayanan, Pennsylvania State University; Steven Kay, University of Rhode Island; Muralidhar Rangaswamy, Air Force Research Laboratory

TP6b-2	User Scheduling for Large Multi-Beam Satellite MIMO Systems Matteo Berioli, Vincent Boussemart, Francesco Rossel German Aerospace Center (DLR)	3:55 PM tto,
TP6b-3	Multi-User Interference Mitigation Techniques for Broadband Multi-Beam Satellite Systems Ilaria Thibault, Francesco Lombardo, Enzo A. Candre	4:20 PM
	Alessandro Vanelli-Coralli, Giovanni E. Corazza, University of Bologna	
TP6b-4	Advanced Interference Mitigation Techniques for the Forward Link of Multi-Beam Broadband Satellite Systems Bertrand Devillers, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC); Ana Pérez- Neira, Universitat Politècnica de Catalunya	4:45 PM
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	Architectures	
Chair: Andy	Tyrrell, University of York, UK	
TP7a-1	A Programmable Analog and Digital Array for Bio-Inspired Electronic Design Optimization Nano-Scale Silicon Technology Nodes Martin Trefzer, James Walker, Andy Tyrrell, University York	
TP7a-2	Evolved Defect Tolerant Structures for FPGA Architectures Pauline Haddow, Norwegian University of Science and Technology	
TP7a-3	Improved Learning in an Evolvable Oscillator for In-Flight Controller Adaptation in a Flapping Wing Micro Air Vehicle Gallagher John, Wright State University; Michael Oppenheimer, Air Force Research Laboratory	2:20 PM g-
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- TP7b-3 Energy-Efficient Floating-Point Arithmetic 4:20 PM for Low-Power Digital Signal Processors

 Syed Z. Gilani, Nam Sung Kim, University of WisconsinMadison: Michael J. Schulte, Advanced Micro Devices
- TP7b-4 Testing Fused Multiply Add Implementations 4:45 PM David Lutz, Neil Burgess, Sabrina Romero, ARM
- TP7b-5 Shared Implementation of Radix-10 and 5:10 PM Radix-16 Division Algorithm with Limited Precision Primitives

 Milos D. Ercegovac, University of California, Los Angeles; Robert McIlhenny, California State University, Northridge

Session TP8a1 Techniques for Space-Time Signal Processing

Chair: Kaibin Huang, Yonsei University, S. Korea

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- TP8a1-1 Equivalent Codes and Optimality of Orthogonal Space-Time Block Codes

 Alex Geyer, Sergiy Vorobyov, Norman Beaulieu, University
 of Alberta
- TP8a1-2 On Quasi-Orthogonal Space-Time Block Codes for Dual-Polarized MIMO Channels

 Yabo Li, Zhike Huang, Zhejiang University; Xiang-Gen
 Xia, University of Delaware
- TP8a1-3 Sparse Space-Time Equalization with L1 Norm

 Laura Slivinski, Brown University; Adam Margetts, Daniel
 Bliss, Massachusetts Institute of Technology
- TP8a1-4 Weighted Sum-Rate Maximization for MISO Downlink Cellular Networks via Branch and Bound Satya Joshi, Pradeep Chathuranga Weeraddana, Marian Codreanu, Matti Latva-aho, Centre for Wireless Communications
- TP8a1-5 Low Complexity Generalized Geometric Mean Decomposition and DFE Transceiver Design Chih-Hao Liu, P. P. Vaidyanathan, California Institute of Technology
- TP8a1-6 Worst-Case Robust Multiuser Transmit Beamforming Using Semidefinite Relaxation: Duality and Implications Tsung-Hui Chang, National Tsing Hua University; Wing-Kin Ma, Chinese University of Hong Kong; Chong-Yung Chi, National Tsing Hua University
- TP8a1-7 Transmitter Optimization for MIMO Systems with Mutual Coupling at High SNR

 Peng Li, Hong Kong University of Science and Technology; Liang Sun, Alcatel-Lucent Shanghai Bell; Matthew McKay, Ross Murch, Hong Kong University of Science and Technology
- TP8a1-8 Robust Joint Optimization of Non-Regenerative MIMO Relay Channels with Imperfect CSI Ebrahim A. Gharavol, Erik G. Larsson, Linköping University

Session TP8a2 Statistical and Array Signal Processing for Biomedical Applications

Chair: Monica Bugallo, University of Stony Brook

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- TP8a2-1 ECG De-Noising Using a Dynamical Model and a Marginalized Particle Filter
 Chao Lin, TéSA Laboratory; Monica Bugallo, Stony
 Brook University; Corinne Mailhes, Jean-Yves Tourneret,
 University of Toulouse
- TP8a2-2 Beta Dirichlet Process Mixture Model Based Clustering of DNA Methylation Array Data Jia Meng, Yufei Huang, University of Texas at San Antonio; Lin Zhang, China University of Mining and Technology
- TP8a2-3 Neonatal Seizure Detection Using Multi-Channel Blind Information Fusion

 Huaying Li, Aleksandar Jeremic, McMaster University;

 Kenneth Tan, University of Melbourne
- TP8a2-4 A Novel Approach to Automated Fetal Heart Rate Analysis Shishir Dash, Petar Djuric, Stony Brook University
- TP8a2-5 Joint Waveform and Firing Rate Spike-Sorting for Continuous Extracellular Traces

 Brett Matthews, Mark Clements, Georgia Institute of Technology
- TP8a2-6 Statistical Design of Position-Encoded Microsphere Arrays at Low Target Concentrations

 Xiaoxiao Xu, Washington University in St. Louis; Pinaki Sarder, Washington University School of Medicine in St. Louis; Arye Nehorai, Washington University in St. Louis
- TP8a2-7 Biosensor Arrays for Collaborative Detection of Analytes

 Maryam Abolfath-Beygi, Vikram Krishnamurthy,

 University of British Columbia
- TP8a2-8 Developing Movement Direction Decoders from Local Field Potentials

 Vijay Aditya Tadipatri, Ahmed H. Tewfik, University of Texas at Austin; James Ashe, Guiseppe Pellizzer, VA

 Medical Center, Minneapolis

Session TP8a3 Sensor Networks

Chair: Soumya Kar, Carnegie Mellon University

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- TP8a3-1 Dual Trust Secure Protocol for Cluster-Based Wireless Sensor Networks Yang Li, Melody Moh, San Jose State University
- TP8a3-2 User Clustering and Energy Efficient Cooperation in Cellular Networks

 Jinhong Wu, George Washington University; Harry
 (Zhibing) Chen, Yong Liu, Liyu Cai, Alcatel-Lucent
 Shanghai Bell

- TP8a3-3 Optimization of Exponential Error Rates for a Suboptimum Fusion Rule in Wireless Sensor Networks John Gubner, University of Wisconsin-Madison; Louis Scharf, Edwin Chong, Colorado State University
- TP8a3-4 Collaborative Estimation in Dispersive Environments: A Frequency Domain Approach
 Sriram Venkateswaran, Upamanyu Madhow, University of California, Santa Barbara
- TP8a3-5 Distributed Support Vector Machines in Sensor-Actuator Networks

 Joseph Lee, University of California, Los Angeles
- TP8a3-6 Step-Size Sequence Design for Finite-Time Distributed Average Consensus

 Alain Kibangou, University Joseph Fourier/CNRS
- TP8a3-7 Target Localization in Sensor Networks with Quantized Data in the Presence of Byzantine Attacks

 Keshav Agrawal, Aditya Vempaty, Indian Institute of Technology, Kanpur; Hao Chen, Boise State University;

 Pramod Varshney, Syracuse University
- TP8a3-8 Uniformly Most Powerful Distributed Detection and its Application in Cooperative Spectrum Sensing Hao Chen, Uri Rogers, Boise State University

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Chair: Vivek Cadambe, University of California, Irvine

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- TP8a4-1 Dynamic Pricing under Binary Demand Uncertainty: A Multi-Armed Bandit with Correlated Arms Yixuan Zhai, Qing Zhao, University of California, Davis
- TP8a4-2 Optimal Routing with Mutual Information Accumulation in Wireless Networks

 Rahul Urgaonkar, Michael Neely, University of Southern

 California
- TP8a4-3 Optimal Scheduling of Real-Time Messages in Peer-to-Peer Wireless Networks

 Juan Jose Jaramillo, Shihuan Liu, Lei Ying, Iowa State
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- TP8a4-4 State-Based Single Channel Selection in Multi-Channel Wireless Networks

 Brian Phillips, Murali Tummala, John McEachen, Naval Postgraduate School
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- TP8a4-6 Probabilistic Power Control for Heterogeneous Cellular Networks with Closed-Access Femtocells Ralf Bendlin, Yih-Fang Huang, University of Notre Dame; Josef A. Nossek, Munich University of Technology

- TP8a4-7 Pricing and Bandwidth Allocation Problems in Wireless Multi-Tier Networks

 Camila Maria Gabriel Gussen, Universidade Federal do Rio de Janeiro; Elena Veronica Belmega, Mérouane
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Chair: Phil Schniter, The Ohio State University

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- TP8b1-3 Sparse Classification of RF Transients Using Chirplets and Learned Dictionaries

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- TP8b1-8 On 11 Mean and Variance Filtering
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Chair: Daniela Tuninetti, University of Illinois at Chicago

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 Chee Yen Leow, Imperial College London; Dennis L.

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- TP8b2-3 Relaying for Multiple Sources in the Absence of Codebook Information

 Ye Tian, Aylin Yener, Pennsylvania State University
- TP8b2-4 Compound Codes for Optimal Repair in MDS Code Based Distributed Storage Systems Viveck Cadambe, University of California, Irvine; Cheng Huang, Microsoft Research; Jin Li, Sanjeev Mehrotra, Microsoft Research Redmond
- TP8b2-5 Effects of Range Expansion and Interference Coordination on Capacity and Fairness in Heterogeneous Networks Sayandev Mukherjee, Ismail Guvenc, DoCoMo USA Labs
- TP8b2-6 An Extended Etkin-Type Outer Bound on the Capacity of the Gaussian Interference Channel

 Anas Chaaban, Aydin Sezgin, University of Ulm
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 Mohammadreza Doostmohammadian, Usman Khan, Tufts
 University
- TP8b2-8 Error Probability Bounds for Binary Relay Trees with Unreliable Communications

 Zhenliang Zhang, Ali Pezeshki, Colorado State University;

 William Moran, University of Melbourne; Stephen

 Howard, Defence Science and Technology Organization;

 Edwin Chong, Colorado State University

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Chair: Mérouane Debbah, SUPELEC, France

- WA1a-1 Close-Range Outdoor Wireless Channel 8:15 AM Sounding Scott E. Johnston, Paul D. Fiore, MIT Lincoln Laboratory
- WA1a-2 Channel Aging Effects in CoMP 8:40 AM
 Transmission: Gains from Linear Channel
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 Lars Thiele, Bho Matthiesen, Michael Olbrich,

Lars Thiele, Bho Matthiesen, Michael Olbrich, Konstantinos Manolakis, Slawomir Stanczak, Fraunhofer Heinrich Hertz Institute

- WA1a-3 A Modified Compressed Sampling Matching 9:05 AM
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 Its Application to Sparse Channel Estimation on
 OFDM
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- WA1a-4 Asymptotic Analysis of Double-Scattering 9:30 AM Channels

 Jakob Hoydis, Romain Couillet, Merouane Debbah,
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Chair: Benjamin Friedlander, University of California, Santa Cruz

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 Benjamin Friedlander, University of California, Santa
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- WA1b-2 Subspace Fitting Based Autofocus for 10:40 AM Stripmap SAR
 Roger West, Jacob (Jake) Gunther, Todd Moon, Utah State
 University
- WA1b-3 Doppler Estimation and Compensation in 11:05 AM MIMO Radar with Unitary Waveform Scheduling Tariq Qureshi, Michael Zoltowski, Purdue University; Robert Calderbank, Duke University
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- WA2a-1 Low Complexity EM-Based Decoding for 8:15 AM
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 Marcel Nassar, Brian Evans, University of Texas at Austin
- WA2a-2 Accurate Characterization and Compensation 8:40 AM of Phase Noise in OFDM Receiver

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- WA2a-3 Linear Programming for Tone Reservation
 based IM/DD Optical OFDM Communications
 Liang Chen, NICTA Victoria Research Laboratory;
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- WA2a-4 Analytical Link Performance Evaluation of 9:30 AM LTE Downlink with Carrier Frequency Offset Qi Wang, Markus Rupp, Vienna University of Technology

Session WA2b Beamforming

Chair: Michael Joham, Technical University Munich

- WA2b-1 Design of Beamforming in the Satellite 10:15 AM
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 Andreas Gründinger, Michael Joham, Wolfgang Utschick,
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- WA2b-2 Array and Beamformer Design for Optimal 10:40 AM Directivity

 Jean Jacques Fuchs, Université de Rennes 1

Coordinating Complementary Waveforms for 11:05 AM

- Sidelobe Suppression
 Wenbing Dang, Ali Pezeshki, Colorado State University;
 Stephen Howard, Defence Science and Technology
 Organisation; William Moran, University of Melbourne;
 Robert Calderbank, Duke University
- WA2b-4 Robust Transmit Nulling in Phased Array 11:30 AM Antennas
 Peter Vouras, Jean DeGraaf, Naval Research Laboratory

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Chair: John Walsh, Drexel University

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- WA3a-1 Modeling Noisy Feedback in Decentralized 8:15 AM Self-Configuring Networks
 Samir Medina Perlaza, Merouane Debbah, Supélec
- WA3a-2 Local Failure Localization in Large Sensor 8:40 AM Networks Romain Couillet, Supélec; Walid Hachem, CNRS-Telecom ParisTech
- WA3a-3 Cooperative Radar Techniques: The 9:05 AM
 Two-Step Detector
 Max Scharrenbroich, Michael Zatman, QinetiQ North
 America
- WA3a-4 Studying on Performance Behavior of the 9:30 AM Compressive Sensing Measurements for Multiple Sensor System
 Sangjun Park, Hwanchol Jang, Heung-No Lee, Gwangju Institute of Science and Technology

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- WA3b-1 Multi-Static Radar Imaging via Bayesian 10:15 AM Shrinkage
 Raghu Raj, U.S. Naval Research Laboratory; Zachary
 Chance, David Love, Purdue University
- WA3b-2 A Mask Iterative Hard Thresholding 10:40 AM
 Algorithm for Sparse Image Reconstruction with
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Shuang (Echo) Yang, Daniela Tuninetti, University of

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Session WA5a Signal Theory and Image Representation

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WA7a-3	Parallel Implementation of the Wideband Coherent Signal-Subspace (CSS) Based DOA Algorithm on Single core, Multicore and GPU Mohammad Wadood Majid, Mohsin Jamali, Universi Toledo	9:05 AM ty of			
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Session WA7b Reconfigurable Architectures, Algorithms and Applications

Chair: Kenneth Jenkins, Pennsylvania State University

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- WA7b-2 Exploration of Sign Precomputation-Based 10:40 AM CORDIC in Reconfigurable Systems

 Scott Miller, Dian Ross, Mihai Sima, Michael McGuire,
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- WA7b-3 A Reduced Routing Network Architecture for 11:05 AM
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- WA7b-4 Automatic FFT Code Generation for FPGA 11:30 AM with High Flexibility and Human Readability

 John O'Sullivan, Institute for System Level Integration

 / Steepest Ascent Ltd.; Stephan Weiss, University of

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Calderbank, Robert		Chi, Chong-Yung	
Calderbank, Robert		Chi, Chong-Yung	
Candreva, Enzo A	TP6b-3	Chi, Yuejie	
Cao, Zhigang		Chiani, Marco	TA1a-4
Caramanis, Constantine		Chiarotto, Davide	
Cardarilli, Gian Carlo		Chiou, Yi-Lin	
Cardinale, Janick		Cho, Sungrae	
Carin, Lawrence		Cho, Sungyoon	
Carin, Lawrence		Choi, Jongmoo	
Carlson, Jean		Choi, Wan	
Cattoni, Andrea F		Chong, Edwin	
Cavallaro, Joseph R		Chong, Edwin	
Caves, Kevin		Chorti, Arsenia	
Celikkaya, E. Busra		Christensen, Mads	
Cevher, Volkan		Christensen, Mads	
Chaaban, Anas		Christopoulos, Dimitrios	
Chaaban, Anas		Chung, Moo	
Chae, Hyukjin		Ciblat, Philippe	
Chakrabarti, Chaitali		Claussen, Heiko	
Chakraborty, Bhavana		Clements, Mark	
Chakraborty, Bhavana		Clerckx, Bruno	
Chakraborty, Debejyo		Codreanu, Marian	
Chan, Tsung-Han		Codreanu, Marian	
Chance, Zachary		Coloigner, Julie	
Chandrasekhar, Vijay		Colom Ikuno, Josep	
Chang, Hong		Comer, Mary	
Chang, Nicholas		Conti, Andrea	
Chang, Tsung-Hui		Corazza, Giovanni E	
Chang, Tsung-Hui		Costa, Mário	
		Cotter, Matthew	
Chatzinotas, Symeon		Couillet, Romain	
Char Rise		Couillet, Romain	
Chen, Biao		•	
Chen, Chen		Creusere, Charles	
Chen, Chulong		Crouse, David	
Chen, David		Cui, Shuguang	
Chen, David		Dabin, Jason	
Chen, Hao		Dall'Anese, Emiliano	
Chen, Hao	1P8a3-/	Dalton, Lori A	1A8a1-1

NAME	SESSION	NAME	SESSION
Dang, Jian		Dupret, Antoine	
Dang, Wenbing		Dupuy, Florian	
Dash, Shishir		Durisi, Giuseppe	
Datta, Aniruddha		Edelman, Alan	
Datta, Aniruddha		Edla, Shwetha	
Daum, Fred		Eghbali, Homa	
Day, Brian		Eksin, Ceyhun	
de Dinechin, Benoit		El Ayach, Omar	
de Dinechin, Florent		El Rouayheb, Salim	
De Kerret, Paul		El Rouayheb, Salim	
de Lamare, Rodrigo C		Eldar, Yonina C	
De Lathauwer, Lieven		ElGamal, Hesham	
Debbah, Merouane		El-Gamal, Hesham	
Debbah, Merouane		Elmedyb, Thomas Bo	
Debbah, Merouane		Elsayed, Khaled	
Debbah, Mérouane		ElTantawy, Ahmed M	
DeBole, Michael		Ercegovac, Milos D	
DeBrunner, Linda		Erdogmus, Deniz	
DeBrunner, Linda S		Erkip, Elza	
DeBrunner, Victor		Erkip, Elza	
DeBrunner, Victor		Ertin, Emre	
DeGraaf, Jean		Eryilmaz, Atilla	
DeMino, Alicia		Estrela, Vania V.	
Deng, Qingxiong		Etesami, Seyed Rasoul	
DeVilbiss, Stewart		Evans, Brian	
Devillers, Bertrand		Evans, Jamie	
Di Nunzio, Luca		Evans, Jamie	
Dick, Chris		Everett, Evan	
Dietl, Guido		Fahmy, Hossam A. H	
Dimakis, Alexandros		Faiz, Mohammed	
Dimakis, Alexandros		Fakoorian, S. Ali A.	
Dimakis, Alexandros G		Fan, H. Howard	
Ding, Quan		Fan, Howard	
Dinh, Thang Ba		Fan, Jiancun	
Djuric, Petar		Fan, Jiancun	
Djuric, Petar		Fan, Jing	
Dobigeon, Nicolas		Fannjiang, Albert	IVIPOD-1
Doerschuk, Peter C.		Farhang-Boroujeny, Behrouz	
Dogandzic, Aleksandar		Fazel, Fatemeh	
Dolecek, Lara Dolecek, Lara		Fazel, MaryamFazzolari, Rocco	
Dolecek, Lara		Fink, Alex	
Doostmohammadian, Moha		Fiore, Paul D	
Doostiionaiiinadian, wona	TP8b2-7		
Doroslovacki, Miloš		Flynn, Michael J	
Dougherty, Edward		Forero, PedroForoozan, Foroohar	
Dougherty, Edward		Fowler, James	
Dougherty, Edward R		Fowler, Mark	
Dougherty, Edward R			
Du, Huigin		Fragouli, Christina Frankford, Mark	
Du, Huiqin		Friedlander, Benjamin	
Duan, Ling-Yu		Friedlander, Benjamin	
Duarte, Melissa		Friedlander, Benjamin	
Duman, Tolga		Fried-Oken, Melanie	
		i iidu-Okcii, ivididilid	IVIA/ D-4

NAME Fuchs, Jean Jacques	SESSION WA2b-2	NAME Guo, Rui	SESSION MA8b1-5
Fuchs, Jean Jacques		Gustafsson, Oscar	
Fuchs, Jean Jacques		Guvenc, Ismail	
Gabriel Gussen, Camila M		Haardt, Martin	
Gabrys, Ryan	TA8a3-1	Haardt, Martin	
Gans, Michael		Hachem, Walid	MA4b-3
Ganti, Radha Krishna		Hachem, Walid	WA3a-2
Gao, Wen	TA5a-3	Haddow, Pauline	TP7a-2
Gao, Xiqi		Haimovich, A.M	
Garani Srinivasa, Shayan	MP2b-3	Haimovich, Alexander M	TP5-8
Garg, Umang	TA7-4	Han, Zhu	TA8b1-15
Garrido, Mario		Han, Zhu	TA8b1-2
Gatsis, Nikolaos	TP8a4-8	Hansen, Lars Kai	MP6a-1
Geddes, Robert	WA6a-2	Hanson, Jamie	MP4a-1
Georgiev, Todor	MP5b-2	Hardin, Joe	MP7a-2
Gerbracht, Sabrina	MA8b2-3	Harris, David	MA8b1-7
Gershman, Alex	MP6a-3	harris, fred	TA8a3-8
Gesbert, David	TP1b-2	harris, fred	TA7-7
Geyer, Alex	TP8a1-1	harris, fredric	TA8a2-8
Ghaboosi, Kaveh		Hasegawa, Madoka	MA8b4-4
Gharavol, Ebrahim A	TP8a1-8	Hasegawa, Madoka	MA8b4-3
Ghauri, Irfan	MP1b-3	Hassibi, Babak	MA3b-2
Ghrayeb, Ali		Haupt, Jarvis	TA8b3-5
Giannakis, Georgios	TP2a-1	Heath, Jr., Robert W	TA8b1-5
Giannakis, Georgios		Heath, Jr., Robert W	MP1b-2
Giannakis, Georgios	TP8a4-8	Heath, Jr., Robert W	TP1b-4
Giannakis, Georgios B	MP4a-2	Heath, Jr., Robert W	MP4b-2
Gibson, Jerry	MP8a2-3	Heidarpour, Reza	TA2b-2
Gilani, Syed Z	TP7b-3	Hermundstad, Ann	TA4a-4
Girod, Bernd	TA5a-1	Hero, Alfred	TP8b1-1
Girod, Bernd	TA5a-2	Hero, Alfred	TA8a1-2
Girod, Bernd	MA2b-3	Hero, Alfred O	TA8b3-1
Glick, Rebecca		Hild II, Kenneth E	MA7b-4
Godrich, Hana	TA6a-3	Himed, Braham	TA6a-4
Godrich, Hana	TA6a-1	Hjørungnes, Are	TA8b1-2
Goeckel, Dennis	MA8b3-2	Hlawatsch, Franz	TP3b-2
Goeckel, Dennis		Hlinka, Ondrej	
Goeckel, Dennis L	TP8b2-2	Ho, Tracey	TA2a-4
Goksu, Fikri	MA7b-1	Hoff, Lawrence E	
Goma, Sergio		Honeine, Paul	
Gomes, Joao Pedro	MA4b-4	Honeine, Paul	
Goutsias, John		Hong, YW. Peter	
Greenwood, Garrison		Ho-Phuoc, Tien	
Gribonval, Rémi	TA3b-2	Hopkins, Joseph	TA8a2-7
Gründinger, Andreas		Hoshi, Masaru	
Grzeszczuk, Radek	TA5a-1	Hou, Jianjun	
Grzeszczuk, Radek		Hovareshti, Pedram	
Gubner, John		Howard, Stephen	
Guérin-Dugué, Anne		Howard, Stephen	WA2b-3
Gunther, Jacob (Jake)		Hoydis, Jakob	
Gunther, Jacob (Jake)		Hsiao, Shen-Fu	
Gunther, Jacob (Jake)	WA1b-2	Hu, Siying	
Gunther, Jacob (Jake)		Hu, Y. Charlie	
Guo, Meng	MP8a1-7	Hua, Chen	TP4a-4

NAME Hua, Kai-Lung	SESSION MA8b4-2	NAME Jensen, Jesper	SESSION MP8a1-7
Huang, Chao-Wei		Jensen, Søren Holdt	
Huang, Cheng		Jeremic, Aleksandar	
Huang, Cheng	TP8b2-4	Ji, Rongrong	
Huang, Hsu-Chang		Ji, Yusheng	
Huang, Jing		Jiang, Hua	
Huang, Junzhou		Jiang, Yuebing	
Huang, Kaibin		Jiao, Bingli	
luang, Kaibin		Jin, Shi	
luang, Kaibin		Jing, Yindi	
Huang, Kaibin		Joham, Michael	WA2b-1
luang, Tiejun		Johansson, Karl Henrik	
luang, Yichao		John, Gallagher	
luang, Yih-Fang		Johnson, Joel	
luang, Yufei		Johnston, Scott E	
luang, Yufei		Johnston, Stephen	
luang, Zhike		Jorswieck, Eduard	
luemer, Mario		Jose, Jubin	
lunter, Christopher		Joshi, Satya	
lur, Seong-Ho (Paul)		Jung, Bang-Chul	
lur, Youngmi		Jung, Byunghoo	
lush, Don		Kachenoura, Amar	
lwang, Suk-seung		Kandula, Viswanadh	
brahimi, Morteza	MA3b-4	Kanga, Myuran	
enne, Paolo		Kanoria. Yashodhan	
hler, Alexander	MP3a-4	Kanterakis, Emmanuel	TP8b1-6
namori, Mamiko		Kar, Soummya	
nce, Nuri F		Kato, Shigeo	
ndic, Premananda		Kato, Shigeo	
rudayaraj, Arokia		Katsaggelos, Aggelos K	
slam, Toufiqul	TA2b-4	Kavusi, Sam	
utzeler, Franck		Kay, Steven	
vanov, İvan		Keeter, Matthew	
wen, Mark		Keller, Lorenzo	
ääskeläinen, Pekka		Keshavarz-haddad, Alireza	
aberipur, Ghassem		Keviczky, Tamas	TP4a-3
adbabaie, Ali		Khajehnejad, Amin	
aech, Aaron		Khan, Usman	
afar, Syed		Khan, Usman A	MA4b-2
afar, Syed		Khandani, Amir	
ahanchahi, Cyrus		Khisti, Ashish	MA8b3-7
ain, Nitin		Khisti, Ashish	
lajamovich, Guido Hugo		Khojastepour, Mohammad	
akobsson, Andreas		Kibangou, Alain	
akubowicz, Jérémie		Kim, Dongku	
amali, Mohsin		Kim, Nam Sung	
ang, Hwanchol		Kim, Seong-Wan	
ang, Hwanchol		Kim, Seung-Jun	
anneck, Jorn W		Kim, Sungsoo	
aramillo, Juan Jose		Kim, Taejoon	
Javanmard, Adel		Kirachaiwanich, Davis	
lavidi, Tara		Klein, Andrew	
lenkins, Kenneth		Knopp, Raymond	
lenkinson, Garrett		Koch, Peter	

TA6a-3 MP8a3-8	Li, Jin	TP8b2-4
IVIE ON 3-0	Li, Lin	MP3b-2
MP2a-4	Li, Liying	
MP4b-3	Li, Peng	
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		MP4b-2 Li, Shang TP8b1-7 Li, Xiao MP7a-3 Li, Yabo TP7b-2 Li, Yang WA6a-4 Li, Ying-Yi TP2a-4 Li, Zhi TP8a2-7 Liang, Qilian MA1b-4 Liang, Qilian MP7a-2 Liang, Ying-Chang TA6b-3 Lin, Chao TA1b-3 Lin, Yenting MA5b-2 Lindhé, Magnus MP7b-4 Litt, Brian MA8b5-3 Liu, Guangyi TP8a1-8 Liu, Guifeng MP8a2-4 Liu, Guifeng MP8a4-3 Liu, Hao TA8b2-6 Liu, Juan TA8b2-6 Liu, Juan TA8b2-6 Liu, Juan TA8b2-6 Liu, Juan TA8b2-1 Liu, Guifeng MP7b-2 Liu, Shihuan TP8a1-4 Liu, Yupeng WA7a-4 Lombardo, Francesco TP1b-5 Long, Darrell WA7b-1 Love, David WA7b-1 Love, David

Madsen, Kristoffer Hougaard. MP6a-1 Mettu, Ramgopal MP3a-4 Mahabalagiri, Anvith MP7a-4 Miller, Ethan. TP4b Mailnes, Corinne. TP8a2-1 Miller, Scott. WA7b Maina, Ciira MP3a-3 Min, Jae Hong MP8a4 Mallor, Anamitra WA5a-1 Miller, Scott. MP8a4 Mallik, Ranjan K. TA2b-4 Mohallemi, Nasim TA8a3 Malloy, Matthew TA8b3-3 Mohammed, Abbas. TP6b Mandica, Armando MA5b-1 Mohammed, Abbas. TP6b Manduca, Armando MA5b-1 Molisch, Andreas MA7b Mandica, Skonstantinos WA1a-2 Montanari, Andrea MA1b Mao, Zhoujia MP2a-4 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moort, Todd MA2ba Margetts, Adam TA8b2-8 Moon, Todd MA2ba Marsetta, Thomas MA1b-3 Moon, Todd MA2ba Marsetta, Thomas MA1b-3 Moon, Todd MA2ba Materos, Gonzalo M	NAME Madean Kristoffer Housean	SESSION MD6. 1	NAME Mattu Domgonal	SESSION
Mailhes, Corinne TP8a2-1 Miller, Scott WA7b Maina, Clira MMP3a-3 Min, Jae Hong MP8ab Makur, Anamitra WA5a-1 Mittal, Anish MP5b Mallin, Anna TP8b1-2 Moallemi, Nasim TA8a4 Mallido, Anna TP8b1-2 Moallemi, Nasim TA8a4 Mallik, Ranjan K TA4b-4 Moh, Melody TP8b3 Mallik, Ranjan K TA4b-3 Mohammed, Abbas TP6b Mallik, Ranjan K TA4b-3 Mohammed, Abbas TP8b Mandic, Danilo TP3b-3 Mohammed, Abbas TP8b Mandic, Danilo MA5b-1 Molsch, Andreas MA1b Mangharam, Rahul TA4a-1 Mondragon-Torres, Antonio TA7 Mano, Zhoujia MP2a-4 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Mooty, Daniela TP8b1 Margetts, Adam TA8b2-8 Moon, Todd TA8a2 Marzetta, Thomas MA1b Moon, Todd MA8b Marzetta, Alireza MA6b-2 Moon, T				
Maina, Ciira MP3a-3 Min, Jae Hong MP8a-4 Makur, Anamitra WA5a-1 Mittal, Anish MP5b Malin, Anna TP8b1-2 Moallemi, Nasim TA8a-4 Mallada, Enrique MP4a-4 Mogensen, Preben TA8a-3 Malloy, Matthew TA8b3-3 Mohammed, Abbas TP6b Manloy, Matthew TA8b3-3 Mohammed, Abbas TP6b Manduca, Armando MA5b-1 Moisen, Andreas MA1b Mangharam, Rahul TA4a-1 Mondragon-Torres, Antonio TA7 Mao, Zhoujia MP4a-2 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moody, Daniela TP8b1 Margetts, Adam TR8a1-3 Moon, Todd TA8a2 Marshall, Alan MP8a5-8 Moon, Todd MA2a Marshall, Alan MP8a5-8 Moon, Todd MA2a Masmoudi, Ahmed MP8a3-4 Moon, Todd MA1b Masmoudi, Ahmed MP8a3-4 Moon, Todd MA1b Masmouros, Christos TA8b1-3 Moran, W				
Makur, Anamitra. WA5a-1 Mittal, Anish MP5b Malin, Anna TR8b1-2 Moallemi, Nasim TA8a4 Mallada, Enrique MP4a-4 Mogensen, Preben TA8a3 Mallik, Ranjan K TA2b-4 Moh, Melody TP8a3 Malloy, Matthew TA8b3-3 Mohammed, Abbas TP6b Mandic, Danilo TP3b-3 Mohsenin, Tinoosh MA7b Manduca, Armando MA5b-1 Molisch, Andreas MA1b Manduca, Armando MA5b-1 Molisch, Andreas MA1b Manduca, Armando MA5b-1 Mondragon-Torres, Antonio TA7b Mandalis, Konstantinos WA1a-2 Mondragon-Torres, Antonio TA7b Marolakis, Konstantinos WA1a-2 Montanari, Andrea MA3b Marodani, Morteza MP4a-2 Montanari, Andrea MA3b Margetts, Adam TR8b3-3 Moon, Todd MR2b Marshall, Alan MP8a6-8 Moon, Todd MP2b Marshall, Alan MP8a6-8 Moon, Todd MP8a4 Masmoudi, Ahmed				
Malin, Anna TP8b1-2 Moallemi, Nasim TA8a4 Mallada, Enrique MP4a-4 Mogensen, Preben TA8a3 Mallik, Ranjan K. TA2b-4 Moh, Melody TP8a3 Mandic, Danilo TP3b-3 Mohammed, Abbas TP6b Manduca, Armando MA5b-1 Mohsenin, Tinoosh WA7b Mangharam, Rahul TA4a-1 Mondragon-Torres, Antonio TA5b Mangharam, Rahul MA1-2 Monga, Vishal TA5b Mao, Zhoujia MP2a-4 Montanari, Andrea MA3b Mardani, Morteza MP4a-2 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moon, Todd TA8a2 Margetts, Adam TR8b1-3 Moon, Todd MA2b Marshall, Alan M88a5-8 Moon, Todd MA2b Marzetta, Thomas MA1b-3 Moon, Todd MA1b Masmoudi, Ahmed MR8a3-4 Moon, Todd MR8a Masmoudi, Ahmed MR8a3-4 Moorthy, Anush MP6b Matamoros, Javier MP4b-1 Moran, W	•			
Mallada, Enrique MP4a-4 Mogensen, Preben TA8a3 Mallik, Ranjan K TA2b-4 Moh, Melody TP8a3 Mandic, Danilo TP3b-3 Mohammed, Abbas TP6b Manduca, Armando MA5b-1 Mohsenin, Tinoosh WA7b Manduca, Armando MA5b-1 Montanari, Andreas MA1b Mao, Zhoujia MP2a-4 Montanari, Andrea MA3b Mardani, Morteza MP4a-2 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moon, Todd TA8a2 Margetts, Adam TA8a2 Moon, Todd MA2b-1 Margetts, Adam TA8a2-3 Moon, Todd MA1b Marshall, Alan MP8a5-8 Moon, Todd MA1b Masnadi-Shirazi, Alireza WA6b-2 Moorthy, Anush MP5b Massouros, Christos TA8b1-3	,			
Mallik, Ranjan K TA2b-4 Moh, Melody TP8a3 Malloy, Matthew TA8b3-3 Mohammed, Abbas TP6b Mandic, Danilo TP3b-3 Mohsenin, Tinoosh WA7b Manduca, Armando MA5b-1 Molisch, Andreas MA1b Manduca, Armando MA5b-1 Molisch, Andreas MA1b Manduca, Armando MA5b-1 Montanari, Andrea MA3b Mary Alaman, Morteza MP2a-4 Montanari, Andrea MA3b Margetts, Adam TR8b1-3 Moon, Todd MA3b Margetts, Adam TR8a1-3 Moon, Todd MP2b Marshall, Alan MP8a5-8 Moon, Todd MP2b Marzetta, Thomas MA1b-3 Moon, Todd MP4b Masnouros, Christos TA8b1-3 Moon, Todd MP8a4 Masouros, Christos TA8b1-3 Moran, William WA2b Mateos, Gonzalo MP4a-2 Morrison, Kyle MA8b Mathews, Sanu TP7b-2 Mørup, Morten MP6a Matthews, Spett TP8b-1 Mostofi			'	
Malloy, Matthew TA8b3-3 Mohammed, Abbas TP6b Mandic, Danilo TP3b-3 Mohsenin, Tinoosh WA7b Manduca, Armando MA5b-1 Molisch, Andreas MA1b Mandragam, Rahul TA4a-1 Mondragon-Torres, Antonio TA7 Mandani, Morteza MP2a-4 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moody, Daniela TP8b1 Margetts, Adam TA8b2-8 Moon, Todd TA8a2 Marshall, Alan MP8a5-8 Moon, Todd MP2b Marswoudi, Ahmed MP8a5-8 Moon, Todd MP2b Masmoudi, Ahmed MP8a3-4 Moorthy, Anush MP2b Masouros, Christos TA8b1-3 Moran, William TP8b2 Mathecken, Pramod WA2a-2 Worty, Anush MP5b Mathecken, Pramod WA2a-2 Mørup, Morten MP6a Mathews, Sanu TP7b-2 Mørup, Morten MP6a Matthews, Srett TP8a-2-5 Mostofi, Yasamin TP4a Matthews, Brett TP8a-2-5				
Mandic, Danilo TP3b-3 Mohsenin, Tinoosh WA7b Manduca, Armando MA5b-1 Molisch, Andreas MA1b Mangharam, Rahul TA4a-1 Mondragon-Torres, Antonio TA7 Mangharam, Rahul MA2b Mondragon-Torres, Antonio TA7 Mangathis, Konstantinos WA1a-2 Mondragon-Torres, Antonio TA7 Marghali, Morteza MP4a-2 Montanari, Andrea MA3b Mardani, Morteza MP4a-2 Montanari, Andrea MA3b Margetts, Adam TR81-3 Moon, Todd TA8a2 Marshall, Alan MP8a5-8 Moon, Todd MA7b Marshall, Alan MP8a5-8 Moon, Todd MP2a Marshall, Alan MP8a5-8 Moon, Todd MP8a4 Masmoudi, Ahmed MP8a3-4 Moon, Todd MP8a4 Masmoudi, Ahmed MP8a3-4 Moon, Todd MP8a4 Masouros, Christos TA81-3 Moran, William TP8a4 Mateos, Gonzalo MP4a-2 Morran, William WA2b Matteos, Gonzalo M			-	
Manduca, Armando MA5b-1 Molisch, Andreas MA1b Mangharam, Rahul TA4a-1 Mondragon-Torres, Antonio TA7 Mao, Zhoujia MP2a-4 Montanari, Andrea MA3b Mardani, Morteza MP2a-4 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moody, Daniela TP8b1 Margetts, Adam TP8a1-3 Moon, Todd MP2a-2 Marshall, Alan MP8a5-8 Moon, Todd MP2a-2 Marzetta, Thomas MA1b-3 Moon, Todd MP2b Masmoudi, Ahmed MP8a3-4 Moon, Todd MP8a4 Masnouros, Christos TA8b1-3 Moon, Todd MP8a4 Mateos, Gonzalo MP4a-2 Morrison, Kyle MA8b Mathecken, Pramod WA2a-2 Mrup, Morten MA2b Mathews, Sanu TP7b-2 Mortyn, Morten MA7b Matthews, Brett TP8a2-5 Mostofi, Yasamin TP4a Matthews, Brett TP8a2-5 Mostofi, Yasamin TP4a Matthewsen, Bho WA1a-2			*	
Mangharam, Rahul TA4a-1 Mondragon-Torres, Antonio TA7 Mao, Zhoujia MP2a-4 Montanari, Andrea MA3b Mardani, Morteza MP4a-2 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moody, Daniela TT88h1 Margetts, Adam TP8a1-3 Moon, Todd TA8a2 Marshall, Alan MP8a5-8 Moon, Todd MA8a Marsoul, Ahmed MP8a3-4 Moon, Todd MP8a4 Masmoudi, Ahmed MP8a3-4 Moon, Todd MP8a4 Masmouros, Javier MP4b-1 Moran, William TP8b2 Matamoros, Javier MP4b-1 Moran, William TP8b2 Mathew, Sanu TP7b-2 Moran, William WA2b Mathew, Sanu TP7b-2 Mørup, Morten MA7b Mathew, Sanu TP7b-2 Mørup, Morten MA7b Mathew, Sanu TP7b-2 Mørup, Morten MA7b Mathews, Brett TP8a2-5 Mostofi, Yasamin TP2b Matthiesen, Bho WA1a-2 Moura, Jose			,	
Manolakis, Konstantinos WA1a-2 Monga, Vishal. TA5b Mao, Zhoujia MP2a-4 Montanari, Andrea MA3b Mardani, Morteza MP4a-2 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moody, Daniela TP8b1 Marshall, Alan MP8a5-8 Moon, Todd MP2b Marshall, Alan MP8a5-8 Moon, Todd MP2b Marsetta, Thomas MA1b-3 Moon, Todd MP8a4 Masnoudi, Ahmed MP8a3-4 Moon, Todd MP8a4 Masnadi-Shirazi, Alireza WA6b-2 Moorthy, Anush MP5b Masouros, Christos TA8b1-3 Moran, William TP8b2 Matamoros, Javier MP4b-1 Moran, William WA2b Matecs, Gonzalo MP4a-2 Morrison, Kyle MA8b3 Mathecken, Pramod WA2a-2 Mørup, Morten MP6a Mathew, Sanu TP7b-2 Mørup, Morten MA7b Mattheise, Brett TP8a-2-5 Mostofi, Yasamin TP4a Matthiews, Brett TP8a-2-5				
Mao, Zhoujia. MP2a-4 Montanari, Andrea MA3b Mardani, Morteza MP4a-2 Montanari, Andrea MA3b Margetts, Adam TA8b2-8 Moody, Daniela TP8b1 Margetts, Adam TP8a1-3 Moon, Todd. MP2b Marshall, Alan MP8a5-8 Moon, Todd. WA1b-3 Marzetta, Thomas. MA1b-3 Moon, Todd. WA1b-1 Masmoudi, Ahmed. MP8a3-4 Moon, Todd. WA1b-1 Masmoudi, Ahmed. MP8a3-4 Moon, Todd. MP8a4 Masnadi-Shirazi, Alireza WA6b-2 Moorthy, Anush MP5b Masouros, Christos TA8b1-3 Moran, William TP8b2 Mateoso, Gonzalo MP4b-1 Morrison, Kyle. MA8b3 Mathecken, Pramod WA2a-2 Mørup, Morten MP8b3 Matthew, Sanu TP7b-2 Mørup, Morten MA7b Matthews, Srett TP8a2-5 Morten MA7b Matthiesen, Bho WA1a-2 Moura, Jose' TP5 Matthiesen, Bho WA1a-2 Moura,	•			
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Marzetta, Thomas			Moon, Todd	MP2b-4
Masnadi-Shirazi, Alireza WA6b-2 Moorthy, Anush MP5b Masouros, Christos TA8b1-3 Moran, William TP8b2 Matamoros, Javier MP4b-1 Moran, William WA2b Mateos, Gonzalo MP4a-2 Morrison, Kyle MA8b3 Mathecken, Pramod WA2a-2 Mørup, Morten MP6a Matthew, Sanu TP7b-2 Mørup, Morten MA7b Matthew, Sanu TP7b-2 Mørup, Morten MA7b Matthaiou, Michail TP6b-1 Moshksar, Kamyar TP2b Matthiesen, Bho WA1a-2 Mostofi, Yasamin TP4a Matthiesen, Bho WA1a-2 Moura, Jose' TP5 Matthiesen, Bho WA1a-2 Mousa, May TA8b3 Maymon, Shay MP8a4-5 Movassagh, Ramis WA6a Mazzotti, Matteo MA8b5-4 Mudumbai, Raghu MA6b McDonough, John MA8b5-4 Muhaidat, Sami TA2b McEachen, John TP8a-4-4 Muhariat, Rusdha TP1a McCilien, Michael WA7b-2			Moon, Todd	WA1b-2
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McKay, Matthew MA8b2-7 Murch, Ross TP8a1 McKay, Matthew TP8a1-7 Mutlu, Ali Yener MA7b McMichael, Joseph G. MP8a4-5 Myers, Kary MA8b5 McPherson, D.B. TA4a-2 Myers, Kary TP8b1 Meas-Yedid, Vannary MP5a-4 Myllyla, Markus TA7 Medard, Muriel MA2b-1 Nadakuditi, Raj Rao TP8b1 Medina Perlaza, Samir WA3a-1 Nafie, Mohammed TA8b3 Medioni, Gérard WA5b-1 Nafie, Mohammed TA8b2 Mehrotra, Sanjeev MA2b-2 Naguib, Ahmed TA8b3 Mehta, Neelesh B. MA1b-4 Namvar Gharehshiran, Omid TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Nascimento, Vitor TP3b				
McKay, Matthew TP8a1-7 Mutlu, Ali Yener MA7b McMichael, Joseph G. MP8a4-5 Myers, Kary MA8b5 McPherson, D.B. TA4a-2 Myers, Kary TP8b1 Meas-Yedid, Vannary MP5a-4 Myllyla, Markus TA7 Medard, Muriel MA2b-1 Nadakuditi, Raj Rao TP8b1 Medina Perlaza, Samir WA3a-1 Nafie, Mohammed TA8b3 Medioni, Gérard WA5b-1 Nafie, Mohammed TA8b2 Mehrotra, Sanjeev MA2b-2 Naguib, Ahmed TA8b3 Mehta, Neelesh B. MA1b-4 Namvar Gharehshiran, Omid TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Nascimento, Vitor TP3b				
McMichael, Joseph G. MP8a4-5 Myers, Kary MA8b5 McPherson, D.B. TA4a-2 Myers, Kary TP8b1 Meas-Yedid, Vannary MP5a-4 Myllyla, Markus TA7 Medard, Muriel MA2b-1 Nadakuditi, Raj Rao TP8b1 Medina Perlaza, Samir WA3a-1 Nafie, Mohammed TA8b3 Medioni, Gérard WA5b-1 Nafie, Mohammed TA8b2 Mehrotra, Sanjeev MA2b-2 Naguib, Ahmed TA8b3 Mehta, Neelesh B. MA1b-4 Namvar Gharehshiran, Omid TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TP8a2-2 Nascimento, Vitor TP3b				
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Meas-Yedid, Vannary MP5a-4 Myllyla, Markus TA7 Medard, Muriel MA2b-1 Nadakuditi, Raj Rao TA1a Medard, Muriel TP8b2-1 Nadakuditi, Raj Rao TP8b1 Medina Perlaza, Samir WA3a-1 Nafie, Mohammed TA8b3 Medioni, Gérard WA5b-1 Nafie, Mohammed TA8b2 Mehrotra, Sanjeev MA2b-2 Naguib, Ahmed TA8b2 Mehrotra, Sanjeev TP8b2-4 Naguib, Ayman TA8b3 Mehta, Neelesh B MA1b-4 Namvar Gharehshiran, Omid TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Nascimento, Vitor TP3b	, I			
Medard, Muriel MA2b-1 Nadakuditi, Raj Rao TA1a Medard, Muriel TP8b2-1 Nadakuditi, Raj Rao TP8b1 Medina Perlaza, Samir WA3a-1 Nafie, Mohammed TA8b3 Medioni, Gérard WA5b-1 Nafie, Mohammed TA8b2 Mehrotra, Sanjeev MA2b-2 Naguib, Ahmed TA8b3 Mehrotra, Sanjeev TP8b2-4 Naguib, Ayman TA8b3 Mehta, Neelesh B MA1b-4 Namvar Gharehshiran, Omid TP2a Meng, Jia TA8a1-11 Narayanan, Ram TP6a Meng, Jia TP8a2-2 Nascimento, Vitor TP3b				
Medard, Muriel TP8b2-1 Nadakuditi, Raj Rao TP8b1 Medina Perlaza, Samir WA3a-1 Nafie, Mohammed TA8b3 Medioni, Gérard WA5b-1 Nafie, Mohammed TA8b2 Mehrotra, Sanjeev MA2b-2 Naguib, Ahmed TA8b2 Mehrotra, Sanjeev TP8b2-4 Naguib, Ayman TA8b3 Mehta, Neelesh B MA1b-4 Namvar Gharehshiran, Omid TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Narayanan, Vijaykrishnan MP7b Meng, Jia TP8a2-2 Nascimento, Vitor TP3b				
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Mehrotra, Sanjeev MA2b-2 Naguib, Ahmed TA8b2 Mehrotra, Sanjeev TP8b2-4 Naguib, Ahmed TA8b3 Mehta, Neelesh B. MA1b-4 Namvar Gharehshiran, Omid TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Narayanan, Vijaykrishnan MP7b Meng, Jia TP8a2-2 Nascimento, Vitor TP3b	Medina Perlaza, Samir	WA3a-1		
Mehrotra, Sanjeev TP8b2-4 Naguib, Ayman TA8b3 Mehta, Neelesh B. MA1b-4 Namvar Gharehshiran, Omid TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Narayanan, Vijaykrishnan MP7b Meng, Jia TP8a2-2 Nascimento, Vitor TP3b	Medioni, Gérard	WA5b-1	Nafie, Mohammed	TA8b2-4
Mehta, Neelesh B. MA1b-4 Namvar Gharehshiran, Omid. TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Narayanan, Vijaykrishnan MP7b Meng, Jia TP8a2-2 Nascimento, Vitor TP3b	Mehrotra, Sanjeev	MA2b-2	Naguib, Ahmed	TA8b2-4
Mehta, Neelesh B. MA1b-4 Namvar Gharehshiran, Omid. TP2a Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Narayanan, Vijaykrishnan MP7b Meng, Jia TP8a2-2 Nascimento, Vitor TP3b			Naguib, Ayman	TA8b3-7
Mencer, Oskar MP8a5-2 Narayanan, Ram TP6a Meng, Jia TA8a1-11 Narayanan, Vijaykrishnan MP7b Meng, Jia TP8a2-2 Nascimento, Vitor TP3b				
Meng, Jia				
Meng, Jia TP8a2-2 Nascimento, Vitor TP3b				
,				
Merz, RubenTA8b2-3			,	

NAME	SESSION	NAME	SESSION
Natesan Ramamurthy, Kar	thikeyan	Pappas, George	
Nedic, Angelia	TP3a-3	Pappas, George J	
		Parag, Parimal	
Neely, Christopher		Parandeh Afshar, Hadi	
Neely, Michael		Parhami, Behrooz	
Negro, Francesco		Parhi, Keshab K. Parh	
Nehorai, Arye		Park, Sangjun	
Neifeld, Mark		Parker, Jason	TA3a-2
Nejati, Saeed		Parker, Lyndsi	
Nelson, Douglas		Pattichis, Marios	
Nelson, Douglas		Paul, Grégory	MP5a-2
Nelson, Jill		Paul, Steffen	TA7-5
Nelson, Jill		Pawar, Sameer	TA2a-3
Nemzek, Robert		Pawar, Sameer	TP4b-1
Newstadt, Gregory		Pawley, Norma	MA8b5-3
Noorshams, Nima		Pawley, Norma	TP8b1-3
Nooshabadi, Saeid	TA8a2-3	Paydarfar, David	
Northrop, Judith		Pearce, Allison	
Nosrat-Makouei, Behrang.	MP1b-2	Pellizzer, Guiseppe	
Nossek, Josef A	TP8a4-6	Peng, Bingguang	
Nowak, Robert		Pennanen, Harri	
O Griofa, Marc	WA5b-4	Pérez-Neira, Ana	
O'Connor, Sean J		Peroulis, Dimitrios	
Odeh, Maha	TP1b-2	Pesavento, Marius	
Ogunfunmi, Tokunbo	MP8a2-5	Petropulu, Athina	
Okeke, Godfrey	TA6b-3	Petropulu, Athina	
Oken, Barry		Petropulu, Athina	
Olbrich, Michael		Petropulu, Athina	
Olivo-Marin, Jean-Christop	heMP5a-4	Pezeshki, Ali	
Ong, Madeleine		Pezeshki, Ali	
Oppenheim, Alan V		Pezeshki, Ali	
Oppenheimer, Michael		Pfletschinger, Stephan	
Orhan, Umut		Phillips, Brian	
Ortega, Antonio		Pitris, Costas	
O'Sullivan, John		Plank, James	
Ottersten, Bjorn		Plawecki, Martin H	
Ottersten, Björn		Polak, Adam	
Ozel, Omur		Pollak, Ilya	
Ozel, Omur		Pollak, Seth	
Ozil, Ipek		Ponnuru, Sandeep	
Pahlavan, Kaveh		Poor, H. Vince	
Pajic, Miroslav		Poor, H. Vincent	
Pal, Piya		Poor, H. Vincent	
Pal, Piya		Poor, H. Vincent	
Pal, Ranadip			
Paolini, Enrico		Pope, Graeme Pourhomayoun, Mohamma	
Papadias, C. B			
Papadopoulos, Haralabos		Prasad, Narayan	
Papandreou-Suppappola,		Preciado, Victor	
Papandreou-Suppappola,		Principe, Jose	
i apanaroua-ouppappula,	TP8b1-2	Proakis, John	
Papandreou-Suppappola,		Pugh, Matthew	
Ver a rest and and based of	WA1b-4	Qian, Xiaoning	
Papandreou-Suppappola,	AntoniaMP7a-3	Qiu, Kun	
		Qureshi, Tariq	vvA1D-3

NAME Radhakrishnan, Chandrashe	SESSION	NAME Rossetto, Francesco	SESSION
Radosevic, Andreja		Rossi, Marco	
Rahmatollahi, Golaleh		Rossi, Michele	
Raj, Bhiksha		Roufarshbaf, Hossein	
Raj, Bhiksha		Rowe, William	
Raj, Raghu		Ruan, Liangzhong	
Rajawat, Ketan		Rueetschi, Andrea	
Rajesh, Ramachandran		Rupp, Markus	
Rambo-Rodenberry, Michelle		Rupp, Markus	
Ramchandara, Preethi		Rupp, Markus	
Ramchandran, Kannan		Rupp, Markus	
Ramchandran, Kannan		Sabharwal, Ashutosh	
Ramkumar, Krishnan		Sabharwal, Ashutosh	
Ramprashad, Sean		Sadek, Ahmed	
Rangarajan, Sampath		Salama, Khaled N	
Rangaswamy, Muralidhar		Salama, Khaled Nabil	
Rao, Bhaskar D		Salim, Umer	
Rao, Bhaskar D		Salisbury, Elisabeth	
Rao, Bhaskar D		Sanada, Yukitoshi	
Rao, Bhaskar D		Sánchez Castillo, Manuel	
Ratnarajah, Tharm		Sarder, Pinaki	
Ratnarajah, Tharm		Sarkar, Md. Zahurul I	
Ratnarajah, Tharm		Sarmadi, Nima	
Ratnarajah, Tharmalingam		Sartipi, Mina	
Razaviyayn, Meisam		Sauvonnet, Nathalie	
		Savvides, Marios	
Razaviyayn, Meisam Re, Marco		Sayed, Ali	
Rebeiz, Eric		Sayed, Ali	
Reise, Günter		Sayed, Ali H	
Ren, Jie		Sayed, Faten	
Rezaee, Arman		Sayilir, Serkan	
Rezki, Zouheir		Sbalzarini, Ivo F	
Ribeiro, Alejandro		Scaglione, Anna	
		Scaglione, Anna	
Ribeiro, Alejandro		Scharf, Louis	
Rice, Garrey			
Richard, Cédric		Scharf, LouisScharrenbroich, Max	
Richard, Cédric		Schauer, Justin	
,		Schlereth, Fred	
Richter, Andreas		Schniter, Philip	
Riedel, Marc D		' '	
Riedl, Thomas		Schniter, Philip	
Riihonen, Taneli		Schniter, Philip	
Riihonen, Taneli		Schniter, Philip	
Ritcey, James		Schober, Robert	
Roark, Brian		Schulte, Michael J	
Rodriguez, Paul		Schulte, Michael J	
Roemer, Florian		Sellathurai, Mathini	
Rogers, Uri		Sen Gupta, Ananya	
Rojas, Cristian R		Seng, Shay	
Romberg, Justin		Senhadji, Lotfi	
Romero, Sabrina		Seto, Koji	
Rosca, Justinian		Severi, Stefano	
Rosenthal, Daniel		Sezgin, Aydin	
Ross, Dian	WA7b-2	Sezgin, Aydin	vvA4b-3

NAME Sezgin, Aydin	SESSION MA8b3-6	NAME Stewart, Kyle	SESSION TA8a4-5
Shafer, Andrew		Stoica, Petre	
ShahbazPanahi, Shahram	TA6b-4	Stojanovic, Milica	MP4a-3
ShahbazPanahi, Shahram		Stojanovic, Milica	
Shamai, Shlomo		Stojanovic, Milica	
Shamaiah, Manohar	TP2b-5	Strohmer, Thomas	
Shannon, Lesley		Studer, Christoph	
Sharma, Amy		Sturm, Bob	
Sharma, Vinod		Sturm, Bob	
Shellhammer, Stephen		Su, Wei	
Shelton, Christian		Sullivan, Michael	
hen, Cong		Sumer, Ozgur	
Shi, Wei		Sun, Chang	
Shia, Victor		Sun, Liang	
Shim, Byonghyo		Sun, Shaohui	
Shin, Won-Yong		Sun, Yang	
Shin, Won-Yong		Sun, Yifan	
Shirani-Mehr, Houshmand		Sundaram, Shreyas	
Shroff, Ness B		Svensson, Lennart	
Shynk, John J		Swami, Ananthram	
Shynk, John J		Swaminathan, Gurumurthy.	
Siddenki, Srikant	MP7a-2	Swar, Pranay Pratap	
Sigworth, Fred J		Swartzlander, Earl	
Sima, Mihai		Swartzlander, Earl	
Simeone, Osvaldo		Swartzlander, Earl	
Simeone. Osvaldo		Swindlehurst, A. Lee	
Simeone, Osvaldo		Swindlehurst, A. Lee	
Simko, Michal		Swindlehurst, Lee	
inger, Andrew		Tadipatri, Vijay Aditya	
Singer, Andrew		Tadrous, John	
Singh Alvarado, Alexander		Tagare, Hemant	
Sinopoli, Bruno	MA4b-4	Takacs, Gabriel	
Sklivanitis, George		Takahashi, Keita	
Slavinsky, J.P		Takala, Jarmo	
Slivinski, Laura		Takeda, Hiroyuki	
Slock, Dirk		Tan, Kenneth	
Slock, Dirk		Tanaka, Yuichi	
Sluciak, Ondrej		Tanaka, Yuichi	
So, Anthony Man-Cho		Tang, Ao Kevin	
Soderstrand, Michael		Tapparello, Cristiano	
Song, Bin		Taranetz, Martin	
Song, Lingyang		Tarczynski, Andrzej	
Soni, Akshay		Tarokh, Vahid	
Sorensen, Mikael		Tarokh, Vahid	
Sørensen, Troels B		Tewfik, Ahmed	
Spanias, Andreas		Tewfik, Ahmed H	
Spanias, Andreas Spanias, Andreas		Thiagarajan, Jayaraman J	
Spanias, Andreas		Thibault, Ilaria	
Spanias, Andreas Spanias, Andreas		Thiele, Lars	
Gridharan, A		Thomson, David J	
Srinivas. Umamahesh		Tian, Ye	
Stafford, Phillip		Tibau-Puig, Arnau	
Stanczak, Slawomir			
Steinwandt, Jens		Tienda Luna, Isabel María Tölli, Antti	

NAME Tommy, Tommy	SESSION	NAME Wagner, Kevin	SESSION
Tonelli, Oscar		Wahlberg, Bo	
Tourneret, Jean-Yves		Wainwright, Martin	
Tourneret, Jean-Yves		Walker, James	
Tramel, Eric		Walsh, John	
Tran, Trac D		Walters III, E. George	
Trefzer, Martin		Wang, Guohui	
		Wang, Jiadong	
Truong, Kien T Trzasko, Joshua		Wang, Jian	
Tsai, Sam		Wang, Meng	
Tsai, Sam		Wang, Pu	
Tu, Sheng-Yuan		Wang, Qi	
Tugnait, Jitendra		Wang, Qixing	
Tugnait, Jitendra Tugnait, Jitendra		Wang, Xiaodong	
Tulino, Antonia		Wang, Xiaodong	
Tummala, Murali		Wang, Xiaodong	
Tuninetti, Daniela		Wang, Xin	
Tuninetti, Daniela		Wang, Yiyin	
Tutuncuoglu, Kaya		Waters, Andrew	
Tuuk, Peter		Weeraddana, Pradeep Ch	
Tyrrell, Andy		vvccraddana, r radcop Or	TA8b2-5
U.S., Yadhunandan		Weeraddana, Pradeep Ch	nathuranga
Ulukus, Sennur		,	TP8a1-4
Ulukus, Sennur		Weiss, Stephan	WA7b-4
Urgaonkar, Rahul		Weng, Ching-Chih	TA8a4-4
Urriza, Paulo		Weng, Zhiyuan	TP5-4
Utschick, Wolfgang		Werner, Stefan	TP1a-4
Uysal, Murat		Werner, Stefan	WA2a-2
Vaidyanathan, P. P		West, Roger	
Vaidyanathan, P. P		West, Roger	MP8a4-2
Vaidyanathan, P. P		Wichman, Risto	TP1a-4
Vaidyanathan, P. P		Wichman, Risto	WA2a-2
van der Veen, Alle-Jan		Wiegand, Till	
Vanelli-Coralli, Alessandro		Wiese, Thomas	MP8a3-5
Varshney, Pramod		Willett, Peter	TP5-3
Vedantham, Ramakrishna		Williams, Brian T	WA3b-4
Vedantham, Ramakrishna		Williamson, James	TA1b-2
Vempaty, Aditya		Winter, Edward M	WA3b-4
Venkateswaran, Sriram		Wirth, Thomas	MP4b-4
Venosa, Elettra		Wong, Kai-Kit	
Venturino, Luca		Wong, Stephen	MP5a-1
Verdant, Arnaud		Woods, Roger	
Verdú, Sergio		Wu, Gang	
Vijayakumar, Asha		Wu, Jinhong	TP8a3-2
Vikalo, Haris		Wu, Michael	WA7a-1
Vikalo, Haris		Wu, Ting	TA8a1-5
Vila, Jeremy		Wulsin, Drausin	MP7a-1
Vila, Tania		Wylie, Jay	
Vishwanath, Sriram		Wyrembelski, Rafael	MA8b3-6
Vorobyov, Sergiy		Wyrembelski, Rafael F	
Vorobyov, Sergiy		Xia, Chen	MP7b-
Vouras, Peter		Xia, Xiang-Gen	
Vu, Duc		Xia, Xiaofeng	
งน, มนะ Wadood Majid, Mohammad		Xiao, Zhibin	

NAME	SESSION	NAME	SESSION
Xiong, Chenrong		Zhang, Rui	
Xu, Hongbing		Zhang, Wensheng	TP2b-1
Xu, Luzhou		Zhang, Wenyi	
Xu, Weiyu		Zhang, Wenyi	
Xu, Xiaoxiao		Zhang, Xi	
Xue, Ming	WA6a-1	Zhang, Xinmiao	
Yan, Jie	TA3b-4	Zhang, Ying Jun	
Yan, Yuan	TP4a-1	Zhang, Zaichen	
Yan, Zhiyuan	TA7-3	Zhang, Zhenliang	
Yang, Allen		Zhao, Chen	TA8a1-7
Yang, Chao	TA8a1-13	Zhao, Qing	MP3b-2
Yang, En-hui	MA8b4-6	Zhao, Qing	TP8a4-1
Yang, Ge	MP5a-3	Zheng, Fang	WA5a-3
Yang, Jing	MA1b-1	Zheng, Gan	TA8a4-8
Yang, Jingpei	TP4b-2	Zhong, Lin	WA4a-2
Yang, Liuqing		Zhou, Haichuan	MP1a-1
Yang, Ming		Zhou, Meng	MA8b5-6
Yang, Shuang (Echo)	WA4b-4	Zhou, Mu	
Yao, Hongxun		Zhou, Weiwei	
Yao, Shun		Zhou, Xiangrong	
Yener, Aylin		Zhou, Xiangyun	
Yener, Aylin		Zhou, Xiangyun	
Yilmaz, Yasin		Zhu, Xiaolong	
Yin, Qinye		Ziniel, Justin	
Ying, Lei		Zoltowski, Michael	
Yoshinari, Akihiro		Zoltowski, Michael	
Yousefi. Mohammadmahdi		Zorzi, Michele	
Yu, Chi-li		Zummo. Salam	
Yu, Kai		Zammo, Galam	
Yu, Miaoli			
Yu, Weichuan			
Yu. Yao			
Zanella, Alberto			
*			
Zarifi, Keyvan			
Zatman, Michael Zavlanos, Michael M			
,			
Zeger, Linda			
Zejnilovic, Sabina			
Zerguine, Azzedine			
Zerguine, Azzedine			
Zerguine, Azzedine			
Zetterberg, Per			
Zhai, Yixuan			
Zhang, Hao			
Zhang, Honghai			
Zhang, Jiajun			
Zhang, Jianqiu			
Zhang, Jun	TP6a-4		
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 Zhang, Jun.
 TP8b1-2

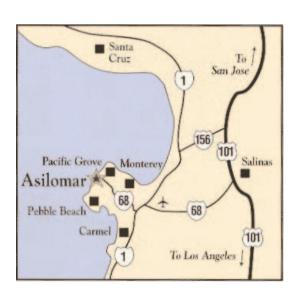
 Zhang, Jun Jason
 MA8b5-6

 Zhang, Lin.
 TP8a2-2

 Zhang, Qi.
 MP8a5-8

 Zhang, Qilin
 WA6a-1

 Zhang, Rong.
 MA8b4-2



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