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ASILOMAR CONFERENCE ON
SIGNALS, SYSTEMS AND
COMPUTERS



October 26 - 29, 2008 Asilomar Hotel and Conference Grounds

Technical Co-sponsor

IEEE Signal Processing Society

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FORTY-SECOND ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS & COMPUTERS

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Welcome from the General Chairman

Prof. Michael Schulte, University of Wisconsin

I am delighted to welcome you to the 42nd Asilomar Conference on Signals, Systems and Computers. For those of you coming to Asilomar for the first time, I hope you have a chance to enjoy the technical sessions and social events that make this conference a special event and encourage many of us to return year after year. The conference, which is relaxed and friendly, provides an excellent opportunity to interact with some of the top scholars in our field. The conference grounds, which are next to the Pacific coast, are beautiful and provide an excellent setting for meeting with friends and colleagues.

The Asilomar conference provides a welcoming environment for students to present their research. This year, the student paper contest received a record number of 108 submissions. The eight finalists in the student paper contest, chaired by Professor James Stine, will present their posters on Sunday afternoon before the welcome reception and social gathering. I hope you have an opportunity to attend this important event.

We are very fortunate to have Professor Deborah Estrin give this year's Sydney Parker Memorial Lecture, which will be held on Tuesday morning. Professor Estrin holds the Jon Postel Chair in Computer Networks at UCLA and is Founding Director of the NSF-funded Center for Embedded Networked Sensing. Her plenary talk, "Wireless Sensing Systems: From Ecosystems to Human Systems," will explore how wireless sensing is enabling new discoveries in human and natural systems.

This year's technical program is outstanding. It features important research in communication systems, MIMO, networking, adaptive systems, array processing, biomedical signal and image processing, multirate processing, architectures, hardware implementations, and speech, image and video processing. The success of this year's conference is due to the tremendous efforts of Professor Linda DeBrunner. Linda recruited outstanding technical area chairs, arranged the program committee meeting, and provided the overall technical organization and leadership for the conference. The technical area chairs, Robert Heath, Aylin Yener, Akbar Sayeed, Xiaoli Ma, Milos Doroslavacki, Lina Karam, Scott Acton, Oscar Gustafsson, and John W. Fisher, III, recruited outstanding session chairs, who invited papers from leading researchers in their fields. Linda and the technical area chairs arranged an exciting program from a total of 569 submitted papers, including 221 invited papers.

I would like to thank all the people who made this conference possible. I am extremely grateful to Linda, the technical area chairs, the session chairs, and all the authors for providing us with such a high quality program. I am also grateful to the members of the Steering Committee for providing the overall direction for the conference. Finally, special thanks are extended to Monique Fargues, Mike Matthews, Frank Kragh, Murali Tummala, and Sue Netzorg who work so hard each year to organize this conference.

On behalf of the entire Conference Committee, I hope you enjoy the 42nd Asilomar Conference on Signals, Systems and Computers.

Michael Schulte, University of Wisconsin, July 2008

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2008 Asilomar Conference Session Schedule

Sunday Afternoon, October 26, 2008

2:00 - 7:00 PMRegistration - Main Lodge5:00 - 6:30 PMStudent Paper Contest - Merrill Hall7:00 - 9:00 PMWelcoming Reception - Merrill Hall

Monday Morning, October 27, 2008

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

8:00 AM - 6:00 PM Registration

8:30 AM - 12:10 PM MORNING SESSIONS

MA1 Waveform Design Methods

MA2 Advances in Bioimaging and Analysis

MA3a Relaying and Cooperation I

MA3b Stochastic Control and Decision Theory for Cognitive Radio Networks

MA4 Multiuser MIMO Networks

MA5 Programmable and Reconfigurable Architectures

MA6 MIMO Radar and Sensor Fusion

MA7 Adaptive Filtering: Theory and Applications

MA8a1 Array Processing and Source Localization (Poster)

MA8a2 Multiuser MIMO (Poster)

MA8a3 Beamforming (Poster)

MA8b1 Topics in Communications (Poster)

MA8b2 Radar Signal Processing (Poster)

MA8b3 Multi-rate and Digital Signal Processing (Poster)

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

Monday Afternoon, October 27, 2008

1:30 - 5:10 PM AFTERNOON SESSIONS

MP1 MIMO Radar

MP2 Retinal Image Analysis

MP3 Information Theory

MP4 Feedback in MIMO Systems

MP5 Computer Arithmetic I

MP6 Blind System Identification, Multi-channel System Inversion, and

Speech Dereverberation

MP7 Signal Processing and Learning for Sensor Signal Exploitation

MP8a1 Distributed Detection and Estimation (Poster)

MP8a2 Wireless Network Management (Poster)

MP8a3 OFDM/UWB (Poster)

MP8a4 MIMO OFDM and Cooperative Relaying (Poster)

Monday Evening, October 27, 2008

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

guest.

2008 Asilomar Conference Session Schedule (continued)

Tuesday Morning, October 28, 2008

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

8:00 AM - 5:00 PM Registration

8:15 - 9:45 AM TA1a - Conference Welcome and Plenary Session

9:45 - 10:15 AM Coffee Social

10:15 AM - 12:20 PM MORNING SESSIONS

TA1b Compressive Sensing

TA2b Functional Imaging and Analysis

TA3b Secrecy Capacity and Interference Channels

TA4b Multiuser MIMO Broadcast

TA5b Communication Architectures

TA6b Wireless Sensor Networks

TA7b Adaptive Methods and Monte Carlo Signal Processing

TA8b1 Image/Video Processing, Quantization and Coding (Poster)

TA8b2 Speech Analysis and Recognition (Poster)

TA8b3 Quantization, Coding, and Encryption (Poster)

TA8b4 Limited Feedback and Precoding (Poster)

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

Tuesday Afternoon, October 28, 2008

1:30 - 5:35 PM AFTERNOON SESSIONS

TP1a Distributed Statistical Inference

TP1b Statistical Signal Processing for Forensics and Security

TP2 Analysis Methods for Functional and Structural Brain Imaging

TP3a Delay-Rate Tradeoffs

TP3b Relaying and Cooperation II

TP4 Cooperative MIMO

TP5a Integrated Algorithm and Architecture Implementation

TP5b Cognitive Systems and Spectrum Sharing

TP6 Interference Management and Cooperative Communication in

Ad-hoc Networks

TP7a Detection, Processing and Fusion in Distributed Sensor Systems

TP7b Performance Prediction and Analysis for Signal and Image

Processing Systems

TP8a1 Adaptive Systems and Processing (Poster)

TP8a2 Detection and Estimation (Poster)

TP8a3 Space-Time Coding and Decoding (Poster)

TP8b1 Computer Arithmetic II (Poster)

TP8b2 Architectures and Implementation (Poster)

TP8b3 Image Analysis for Biomedical Applications (Poster)

Tuesday Evening, October 28, 2008

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

2008 Asilomar Conference Session Schedule (continued)

Wednesday Morning, October 29, 2008

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

8:00 AM - 12:00 PM Registration - Copyright Forms must be turned in

before the registration closes at 12:00 noon.

8:30 AM - 12:35 PM MORNING SESSIONS

WA1 Sensor Networks

WA2 Biological Imaging: Acquisition, Analysis and Modeling

WA3a Ultra Wide Band

WA3b OFDMA and Multiple Access WA4 New Directions in MIMO

WA5a Architectures for Positioning and Navigation

WA5b Low Power Methods

WA6a Network Information Theory and Security

WA6b Wireless Network Utility Maximization: Fundamental Limits and

Protocols

WA7a Speech Recognition and Analysis

WA7b Adaptive Receivers for OFDM and UWB Systems

WA8a Network Coding WA8b Video Coding

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, October 26, 2008 Judging starts at 5:00 PM

(Listed in paper number order)

"Spectrum Allocation in Two-Tier Networks"

Vikram Chandrasekhar and Jeffrey Andrews, The University of Texas at Austin

"Signal-Domain Registration for Change Detection in Time-Reversal SAR"

Nicholas O'Donoughue, José Moura, and Yuanwei Jin, Carnegie Mellon University

"Parallel High-Radix Montgomery Multipliers"

Philip Amberg, Nathaniel Pinckney, and David Money Harris, Harvey Mudd College

"Refined Error Concealment for Multiple State Video Coding over Ad Hoc Networks"

Yiting Liao and Jerry D. Gibson, University of California, Santa Barbara

"Diffusion LMS Algorithms with Information Exchange"

Federico S. Cattivelli and Ali H. Sayed, University of California,
Los Angeles

"Sparsity Adaptive Matching Pursuit Algorithm for Practical Compressed Sensing"

Thong Do, Johns Hopkins University, Lu Gan, Brunel University, Nam Nguyen, and Trac Tran, Johns Hopkins University

"Distortion-Rate Tradeoff of a Source Uniformly Distributed over Positive Semi-definite Matrices"

Rajesh Krishnamachari and Mahesh Varanasi, University of Colorado

"Delay-minimal Transmission for Average Power Constrained Multiaccess Communications"

Jing Yang and Sennur Ulukus, University of Maryland

2008 Asilomar Conference Session Schedule

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

Tuesday, October 28, 2008

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

1. Welcome from the General Chairperson:

Prof. Michael Schulte University of Wisconsin

2. Student Paper Contest:

Prof. James Stine

Oklahoma State University

3. Session TA1a

Distinguished Lecture for the 2008 Asilomar Conference

Wireless Sensing Systems: From Ecosystems to Human Systems

Prof. Deborah Estrin

University of California – Los Angeles

Abstract

Miniaturization and Moore's law has enabled us to combine sensing, computation and wireless communication in integrated, low-power devices, and to embed networks of these devices in the physical world. By placing sensing devices up close to the physical phenomena we are now able to study details in space and time that were previously unobservable. Looking back over the past few years we have made significant progress toward the vision of programmable, multi-modal, multi-scale observatories. We have made our greatest strides in these applications using: judicious application of server-side and in situ processing, mobility at multiple scales, and multi-scale data and models as context for in situ measurements. We are now applying these lessons learned and technical approaches to human as well as natural

systems, in particular by exploring use of the installed base of image, location, and acoustic sensors that we all carry around in our pockets or on our belts-mobile phones. In this talk I will draw upon experiences with pilots and prototypes at CENS.

Biography

Deborah Estrin (Ph.D. MIT, 1985; BSEE UCB, 1980) is a Professor of Computer Science, holds the Jon Postel Chair in Computer Networks, and is Founding Director of the National Science Foundation funded Center for Embedded Networked Sensing (CENS). CENS' mission is to explore and develop innovative, end-to-end, distributed sensing systems, from ecosystems to human systems. Since the late 90's Estrin's work has focused on multi-disciplinary, experimental-systems research as applied to a variety of environmental monitoring challenges. Most recently this work includes participatorysensing systems, at the personal and community level, leveraging the location, acoustic, image, and attached-sensor data streams increasingly available from mobile phones. Previously, Estrin's research addressed Internet protocol design and scaling, in particular, inter-domain and multicast routing.

Estrin chaired a 1998 DARPA/ISAT study on sensor networks and a 2001 NRC study on Networked Embedded Computing which produced the report Embedded Everywhere. She served as a founding member of the National Ecological Observatory Network (NEON) Advisory board, and is currently a member of the NRC Computer Science and Telecommunications Board (CSTB), and TTI/Vanguard. Estrin was selected as the first ACM-W Athena Lecturer in 2006, was awarded the Anita Borg Institute's Women of Vision Award for Innovation in 2007, and was inducted as a member of the American Academy of Arts and Sciences in 2007.

Program of 2008 Asilomar Conference on Signals, Systems, and Computers

Technical Program Chairman Prof. Linda DeBrunner Florida State University

Session	MA1 Waveform Design Methods		MA2-4	Intelligent Acquisition and Learning of 9:45 AM
Chair: Ar	ye Nehorai			Fluorescence Microscope Data Models Charles Jackson, Robert Murphy, Jelena Kovacevic,
MA1-1	Waveform Design for Cognitive Radar Simon Haykin, McMaster University	8:30 AM		Carnegie Mellon University BREAK 10:10 AM
MA1-2	Frames and a vector-valued ambiguity function John Benedetto, University of Maryland; Jeffrey Do University of California at Berkeley	8:55 AM	MA2-5	Quantitative imaging of the collective cell 10:30 AM movements shaping an embryo Willy Supatto, Scott E. Fraser, California Institute of Technology
MA1-3	Novel waveform and processing techniques for monostatic and bistatic radar Shahzada Basharat Rasool, Mark R. Bell, Purdue University	9:20 AM	MA2-6	Navigation and Estimation of Shape Variation 10:55 AM on a Shape Manifold for Anatomical Segmentation. Saurav Basu, Scott T. Acton, University of Virginia
MA1-4	Evaluating Spatial Diversity in Randomly Distributed Radar Networks Rani Daher, Raviraj Adve, Univ. of Toronto	9:45 AM	MA2-7	Quantitative analysis of deconvolution 11:20 AM methods for fluorescence microscopy images Mahsa Ranji, Diego Calzolari, Jeffrey Price, The Burnham Institute for Medical Research
	BREAK	10:10 AM	MA2-8	Localizing single molecules in three 11:45 AM
MA1-5	Unitary Design of Radar Waveform Diversity Sets Michael Zoltowski, Purdue University; Robert Calderbank, Princeton University; Tariq Qureshi, I			dimensions Sripad Ram, UT Southwestern Medical Center at Dallas; Jerry Chao, UT Dallas; E. Sally Ward, UT Southwestern Medical Center at Dallas; Raimund Ober, UT Dallas
MALC	University; William Moran, University of Melbourn		Session 1	MA3a Relaying and Cooperation I
MA1-6	Waveform Design for Dynamic Target Tracking in MIMO Radar	10:55 AM	Chair: Ying	gbin Liang & Venu Veeravalli
	Jun Zhang, Bhavana Manjunath, Antonia Papandre Suppappola, Arizona State University; Darryl Morr Arizona State University East		MA3a-1	Compute-and-Forward: A Novel Strategy for 8:30 AM Cooperative Networks Bobak Nazer, Michael Gastpar, University of California,
MA1-7	1 1 0	11:20 AM		Berkeley
	and Trajectory for Radar Martin Hurtado, Arye Nehorai, Washington Univer- St. Louis	sity in	MA3a-2	Three-User Gaussian Multiple Access 8:55 AM Channel with Partially Cooperating Encoders Osvaldo Simeone, NJIT; Oren Somekh, Princeton;
MA1-8	Compressed Sensing in MIMO Radar Chun-Yang Chen, P. P. Vaidyanathan, Californiab Institute of Technology	11:45 AM	M42 2	Gerhard Kramer, Bell Laboratories; H. Vincent Poor, Princeton University; Shlomo Shamai, Technion
Session	· ·	d.	MA3a-3	On the Capacity of Wireless Interference 9:20 AM Networks
	Analysis	•		V. Sreekanth Annapureddy, CSL; Venugopal Veeravalli, University of Illinois at Urbana-Champaign
Chair: Jed	an-Christophe Olivo-Marin		MA3a-4	Threshold based distributed detection that 9:45 AM
MA2-1	Towards Monitoring Cellular Motion and Function Jens Rittscher, Dirk Padfield, GE Global Research; Thomas, GE Heathcare	8:30 AM Nick		achieves full diversity in wireless sensor networks Yijia Fan, Princeton University; Furuzan Atay Onat, Halim Yanikomeroglu, Carleton University; H. Vincent Poor, Princeton University
MA2-2	Tracking Live Cells in 4D Microscopy: Active Surfaces vs. Active Meshes Alexandre Dufour, Jean-Christophe Olivo-Marin, In Pasteur	8:55 AM	Session 1	MA3b Stochastic Control and Decision Theory for Cognitive Radio Networks
MA2-3	Quantitative Analysis of Border Cell	9:20 AM	Chair: Qin	g Zhao
	Migration Shann-Ching Chen, The Scripps Research Institute		MA3b-1	Channel Probing for Opportunistic Access 10:30 AM with Multi-channel Sensing Keqin Liu, Qing Zhao, University of California at Davis

MA3b-2	Medium Access in Cognitive Radio Networks: A Competitive Multi-armed Bandit Framework Lifeng Lai, Princeton University; Hai Jiang, University Alberta; H. Vincent Poor, Princeton University	10:55 AM	MA4-8	Is Relayed collaborative Communication 11:45 AM Worth it Sana Sfar, Interdigital Communications LLC; Jerry Foschini, Reinaldo Valenzuela, Laurence Mailaender, Dimitri Chizikh, Kemal Karakayali, Bell labs; Alcatel-
MA3b-3	Dynamic spectrum access with learning for cognitive radio Jayakrishnan Unnikrishnan, Venugopal Veeravalli, University of Illinois at Urbana-Champaign	11:20 AM	Session	lucent; Rick Blum, Lehigh University
MA3b-4	Optimal channel probing and access through	11:45 AM	Chair: Sul	eyman Demirsoy
	learning Sahand Haji Ali Ahmad, Mingyan Liu, University of Michigan		MA5-1	A Low-power Two-in-One Flexible 8:30 AM Decimation and Channel Selection Filter for
Session				Bandpass Sampling SDR Alper Ucar, Ediz Cetin, Izzet Kale, University of Westminster
Chair: Jefj MA4-1	f Andrews & Ashu Sabharwal Random Access Cooperative Communication Chris Hunter, Ashutosh Sabharwal, Rice University	8:30 AM	MA5-2	High Performance Matrix Multiplier using 8:55 AM Fused Vector Operators Martin Langhammer, Altera
MA4-2	Enhancing uplink throughput via local base station cooperation Osvaldo Simeone, New Jersey Institute of Technolog Oren Somekh, Princeton; H. Vincent Poor, Princeton University; Shlomo Shamai, Technion		MA5-3	Design and architecture of spatial 9:20 AM multiplexing MIMO decoders for FPGAs Chris H. Dick, Xilinx, Inc.; Kiarash Amiri, Rice University; Raghu Rao, Xilinx; Joseph R. Cavallaro, Rice University
MA4-3	Utilizing Temporal Correlation in Multiuser MIMO Feedback Il Han Kim, Kyeongyeon Kim, David Love, Purdue University	9:20 AM	MA5-4	Optimised and Targeted Arithmetic 9:45 AM Implementation of UMB Physical Layer on Low Cost FPGA R. W. Stewart, Y. Awad, Q. Gao, L. Crockett, University of
MA4-4	Generalized Degrees of Freedom of the K User Symmetric Gaussian Interference Channe Syed Jafar, University of California Irvine; Sriram	9:45 AM :l		Strathclyde; G. Rice, J. Bowman, Steepest Ascent Ltd BREAK 10:10 AM
	Vishwanath, University of Texas at Austin BREAK	10:10 AM	MA5-5	Design Considerations for Reconfigurable 10:30 AM Computing in Embedded Applications *Robert Voigt, U.S. Naval Academy**
MA4-5	Spatial Interference Cancelation for Mobile Ad Hoc Networks: Imperfect CSI Kaibin Huang, Robert Heath, Jr., The University of at Austin; Jeffrey Andrews, University of Texas at At Dongning Guo, Randall Berry, Northwestern Univer	ıstin;	MA5-6	A Complete Full-Rate 802.11a Baseband Receiver Implemented on an Array of Programmable Processors Anh Tran, Dean Truong, Bevan Baas, University of California, Davis
MA4-6	Parametric channel estimation and prediction, with applications to channel state feedback for MIMO downlink schemes Hooman Shirani-Mehr, Giuseppe Caire, University of Southern California		MA5-7	A Parallel Decoding Algorithm of LDPC 11:20 AM Codes using CUDA Shuang Wang, Samuel Cheng, University of Oklahoma-Tulsa; Qiang Wu, Soft Imaging, LLC
MA4-7	On the performance of iterative receivers for interfering MIMO-OFDM systems in measured channels Peter Hammarberg, Lund University; PierLuigi Salve	d vo	MA5-8	Efficient Time-Frequency and Bi-Frequency 11:45 AM Signal Processing On A Reconfigurable Computer Gary Upperman, Teresa Upperman, Department of Defense; Douglas Fouts, Phillip Pace, Naval Postgraduate School
	Rossi, NTNU; Fredrik Tufvesson, Ove Edfors, Lund University; Veli-Matti Kolmonen, Helsinki Universit		Session	MA6 MIMO Radar and Sensor Fusion
	Technology; Peter Almers, Lund University; Ralf Mu		Chair: Ral	binder Madan

MA6-1

MIMO radar: snake oil or good idea? Frederick Daum, Jim Huang, Raytheon

8:30 AM

MA6-2	MIMO radar waveform design based on filter	8:55 AM		BREAK	10:10 AM
	bank theory P. P. Vaidyanathan, Chun-Yang Chen, California In of Technology	estitue	MA7-5	Distributed prediction of time series data with kernels and adaptive filtering techniques in se	
MA6-3	Communication-Inspired Sensing Liuqing Yang, Univ. of Florida	9:20 AM		networks Paul Honeine, Cédric Richard, Université de Techn	
MA6-4	On the Distribution of Ambiguity Levels in MIMO Radar	9:45 AM		de Troyes; Jose Carlos M. Bermudez, Federal Univ of Santa Catarina; Hichem Snoussi, Université de Technologie de Troyes	versity
	Mohamed Haleem, Alexander Haimovich, New Jers. Institute of Technology	ey	MA7-6	Diffusion LMS Algorithms with Information	10:55 AM
	BREAK	10:10 AM		Exchange Federico S. Cattivelli, Ali H. Sayed, Univ. of Califo Los Angeles	rnia,
MA6-5	Cooperative Transmit Beamforming for MIMO Radar Systems Athina Petropulu, Lun Dong, Drexel University; H. Vincent Poor, Princeton University	10:30 AM	MA7-7	Analytical Analysis of Transient and Steady-State Properties of the Proportionate N Algorithm	11:20 AM NLMS
MA6-6	MIMO Radar Detection of Targets in	10:55 AM		Kevin Wagner, Naval Research Laboratory; Milos Doroslovacki, The George Washington University	
	Compound-Gaussian Clutter Murat Akcakaya, Martin Hurtado, Arye Nehorai, Washington University in St. Louis		MA7-8	Fault Tolerant Adaptive Filters Based on Number Theoretic Transforms	11:45 AM
MA6-7	Compressed Sensing for OFDM/MIMO Radar	11:20 AM		Chandrashekar Rhadakrishnan, William Jenkins, T Pennsylvania State University	he
	Christian Berger, Shengli Zhou Zhou, Peter Willett, University of Connecticut		Session 1	MA8a1 Array Processing and Sour Localization	ce
MA6-8	Adaptive Sensing for MIMO Radar Systems Daniel Fuhrmann, Washington University in St. Low		Chair: Brid		- 10:10 AM
Session I	1 0 1	and	MA8a1-1	On the use of the Global Matched Filter for D	
Cl I	Applications			estimation in the presence of correlated wave. Jean Jacques Fuchs, IRISA/université de Rennes	lorms.
	n-Yves Tourneret & Neil Bershad	9.20 AM	MA8a1-2	Hybrid Cramer-Rao Bound for Moving Array Da Xie, Tingting Niu, Jianguo Huang, Northwester	
MA7-1	Variable length adaptive filtering within incremental learning algorithms for distributed networks	8:30 AM I		Polytechnical University; Hongya Ge, New Jersey Institute of Technology	
	Leilei Li, Yonggang Zhang, Jonathon Chambers, Electronic and Electrical Engineering School, Loughborough University		MA8a1-3	Nonparametric and Sparse Signal Representa Array Processing via Iterative Adaptive Appr Tarik Yardibi, Jian Li, University of Florida; Petre Uppsala University	oaches
MA7-2	An Affine Combination of Two NLMS Adaptive Filters - Transient Mean-Square Ana Jose Carlos M. Bermudez, Federal University of San Catarina; Neil J. Bershad, University of California Jean-Yves Tourneret, University of Toulouse	nta	MA8a1-4	Passive Sonar Target Localization Using a Hi Filter with Model Derived Priors Colin Jemmott, R. Lee Culver, Nirmal Bose, The Pennsylvania State University	stogram
MA7-3	Affine combination of adaptive filters Renato Candido, Magno T. M. Silva, Vitor H. Nasci. University of Sao Paulo	9:20 AM mento,	MA8a1-5	Localization of Packet Based Radio Transmit Space, Time, and Frequency Goran Ivkovic, Predrag Spasojevic, Ivan Seskar, R	
MA7-4	Interference-Driven Adaptation in Sparse Approximations Bob L. Sturm, John J. Shynk, University of Californi Santa Barbara	9:45 AM	MA8a1-6	University DOA Estimation Using Vector Sensor Arrays Hung Lai, Lockheed Martin; Kristine Bell, George University; Henry Cox, Lockheed Martin	
			MA8a1-7	Array Steered Response Time-alignment for Delay Compensation for Acoustic Localization Pasi Pertilä, Tampere University of Technology	

- MA8a1-8 Advanced Sonar Processing Techniques for Underwater Acoustic Multi-Input Multi-Output Communications Brian Stein, Yang You, Terry Brudner, Brian Evans, The University of Texas at Austin
- MA8a1-9 GPS Free Positioning in Ad Hoc Wireless Networks Using 4th Generation Mobiles Brian Kelley, University of Texas at San Antonio
- MA8a1-10 Analog preprocessor mapping in antenna arrays to reduce ADC power consumption

 Vijay Venkateswaran, Electrical engineering (EWI), TUDelft

Session MA8a2 Multiuser MIMO

Chair: James Zeidler 8:30 AM - 10:10 AM

- MA8a2-1 A GMD-Based Precoding Scheme for Downlink Multiuser Multistream MIMO Channels Zhilan Xiong, Ranaji Krishna, Sangarapillai Lambotharan, Jonathon Chambers, Loughborough University
- MA8a2-2 A Combinatorial Approach to Maximizing the Sum Rate in the MIMO BC with Linear Precoding Raphael Hunger, David A. Schmidt, Michael Joham, Technische Universität München
- MA8a2-3 Transceiver Design for Sum-MSE Optimization in MIMO MAC with Imperfect Channel Estimation Patricia Layec, Orange Labs; Pablo Piantanida, SUPELEC, Department of Telecommunications; Raphaël Visoz, Orange Labs; Antoine O. Berthet, SUPELEC, Department of Telecommunications
- MA8a2-4 Instantaneous and Average Rate Maximization in MIMO Multiple-Access Channels (MAC) with Linear Processing

 Adam Anderson, James Zeidler, University of California,
 San Diego; Michael Jensen, Brigham Young University
- MA8a2-5 LMMSE Channel Estimation for MIMO W-CDMA with Out-of-Cell Interference Mitigation Roland Tresch, ftw.; Christian Mehlführer, Vienna University of Technology; Maxime Guillaud, ftw.
- MA8a2-6 Efficient Linear Successive Allocation for the MIMO Broadcast Channel
 Christian Guthy, Wolfgang Utschick, Technische
 Universität München; Guido Dietl, DoCoMo
 Communications Laboratories Europe GmbH; Pedro
 Tejera, Technische Universität München
- MA8a2-7 Dirty Paper Coding for Fading Channels with Partial Transmitter Side Information

 Chinmay Vaze, Mahesh Varanasi, University of Colorado, Boulder
- MA8a2-8 On Capacity Scaling of (Long) MIMO Amplify-and-Forward Multi-Hop Networks Jörg Wagner, Wittneben Armin, ETH Zurich

- MA8a2-9 Zero-Forcing-Based Two-Phase Relaying with Multiple Mobile Stations Hyun Jong Yang, Bang Chul Jung, Joohwan Chun, Korea Advanced Institute of Science and Technology
- MA8a2-10 Coordinated Linear Beamforming in Downlink Multi-Cell Wireless Networks

 Luca Venturino, Universita degli Studi di Cassino;

 Narayan Prasad, NEC Labs America; Xiaodong Wang,
 Columbia University

Session MA8a3 Beamforming

Chair: *Jian Li* 8:30 AM - 10:10 AM

- MA8a3-1 Review of User Parameter-Free Robust Adaptive Beamforming Algorithms Lin Du, Tarik Yardibi, Jian Li, University of Florida; Petre Stoica, Uppsala University
- MA8a3-2 A Semiblind Adaptive Antenna for WCDMA Using a Least-Squares Constant-Modulus Formulation Sheng-Luen Wei, John J. Shynk, University of California, Santa Barbara
- MA8a3-3 Designing a spatial filter to improve SNR in two-class discrimination problems for BCI applications

 David Gutierrez, Cinvestay Monterrey
- MA8a3-4 Robust Interference Control Techniques for Multi-User Cognitive Radios Using Worst-Case Performance Optimization
 Kanapathippillai Cumanan, Ranaji Krishna, Vimal
 Sharma, Sangarapillai Lambotharan, Loughborough
- MA8a3-5 Passive Beamforming Enhancements in Relation to Active-Passive Data Fusion Bryan Yocom, Thomas Yudichak, Brian La Cour, Applied Research Laboratories: The University of Texas at Austin
- MA8a3-6 Preprocessing by Eigenbeams and Doppler Filters to Improve Performance of Detection of Signal Number Ryuhei Takahashi, Kazufumi Hirata, Maniwa Hisakazu, Mitsubishi Electric Corporation
- MA8a3-7 Antenna Grouping Techniques for MIMO Beamforming Systems Kyungchul Kim, Jungwoo Lee, Seoul National University
- MA8a3-8 Sensibility study for the Near-Field Sub-Band
 Beamforming method for Damage Detection in Bridges
 Alessio Medda, Victor DeBrunner, Florida State
 University
- MA8a3-9 Adaptive Factored Beamforming For Vector Sensor Arrays Hung Lai, Henry Cox, Lockheed Martin; Kristine Bell, George Mason University
- MA8a3-10 Sidelobe Suppressing Beamforming Using Linearly
 Constrained Adaptive Arrays for Low Angle Tracking
 Jungtai Kim, Hyun Jong Yang, Joohwan Chun, Korea
 Advanced Institute of Science and Technology

Session MA8b1 Topics in Communications

Chair: Todd Moon

MA8b1-1 Reed Solomon Coded M-ary Hyper Phase-Shift Keying James Caldwell, Student/ Naval Postgraduate School; Clark Robertson, Professor/ Naval Postgraduate School

10:30 AM - 12:10 PM

MA8b1-2 Bandwidth Efficient Constant Envelope Modulation with Binary Convolutional Coding Douglas Hermes, United States Air Force; Frank Kragh, Clark Robertson, Naval Postgraduate School

MA8b1-3 Joint Channel and Frequency Offset Estimators for Frequency-Flat Fast Fading Channels

Rami Khal, Yuriy Zakharov, Junruo Zhang, University of York

MA8b1-4 Multi-threshold TOP --- Full-diversity Vector Perturbation Precoding with Finite-rate Feedforward Johannes Maurer, Joakim Jaldén, Gerald Matz, Vienna University of Technology

MA8b1-5 Performance of Bit-interleaved Frequency Domain Turbo Equalization over Experimental Underwater Acoustic Channels Chantri Polprasert, James Ritcey, U. of Washington

MA8b1-6 Joint Bayesian Soft Multiuser Decoding and
Multichannel Estimation Based on the Variational IEM
Algorithm
Alexander Kocian, University of Rome Tor Vergata; Bin
Hu, Nokia Denmark; Bernard Fleury, Aalborg University

MA8b1-7 MIMO-BICM with Imperfect Channel State Information: EXIT Chart Analysis and LDPC Code Optimization Clemens Novak, Vienna University of Technology; Gottfried Lechner, Telecommunications Research Center Vienna (ftw.); Gerald Matz, Vienna University of Technology

MA8b1-8 A Thresholding Algorithm for Improved Split-Row Decoding of LDPC Codes Tinoosh Mohsenin, Bevan Baas, UC Davis

MA8b1-9 Theoretical Models of Oscillators, Phase Noise and the Effects of Nonlinearity

Yenning Chen, University of Southern California /

Northrop Grumman; Robert Scholtz, University of

Southern California

MA8b1-10 ISI Effects in a Hybrid ICA-SVM Modulation Recognition Algorithm David Boutte, Balu Santhanam, University of New Mexico

MA8b1-11 Generalized Minimum Probability of Symbol Error Adaptive Equalization Jacob Gunther, Todd Moon, Utah State University

MA8b1-12 An Efficient Early Stopping Scheme for LDPC Decoding Based on Check-Node Messages Z. H. Cai, J. Hao, U. Ubolthip Sethakaset, Institute for Infocomm Research MA8b1-13 Optimal Detection in MIMO Rayleigh Fast Fading Channels with Imperfect Channel Estimation Junruo Zhang, Yuriy Zakharov, University of York; Vladimir Baronkin, N. N. Andreev Acoustics Institute

MA8b1-14 Optimal Power Allocation Policies for the Reliable
Transmission of a Single Packet via ARQ Protocols
Moritz Wiese, Technical University of Berlin; Anastasios
Giovanidis, Gerhard Wunder, Fraunhofer Institute for
Telecommunications. Heinrich Hertz Institute

MA8b1-15 Opportunistic Power Allocation for Point-to-Point Communication in Self-Organized Networks Mehdi Bennis, Centre for Wireless Communications, CWC; Merouane Debbah, SUPELEC

Session MA8b2 Radar Signal Processing

Chair: Scott Hensley 10:30 AM - 12:10 PM

MA8b2-1 Parameter Estimation of Linear Frequency-Modulated Signal Using Integrated Cubic Phase Function Pu Wang, Hongbin Li, Stevens Institute of Technology; Braham Himed, Signal Labs Inc.

MA8b2-2 High-Resolution Wavenumber Domain Focusing of Squinted SAR Data with a Curved Orbit Geometry Thierry Michel, Scott Hensley, Jet Propulsion Laboratory

MA8b2-3 A Terrain Elevation Error Model for Stereometric SAR Systems Engineering Nick Marechal, The Aerospace Corp

MA8b2-4 Signal-Domain Registration for Change Detection in Time-Reversal SAR
Nicholas O'Donoughue, José M. F. Moura, Yuanwei Jin,
Carnegie Mellon University

MA8b2-5 The Use of Complementary Sets in MIMO Radar Stephen Searle, University of Melbourne; Stephen Howard, DSTO; Bill Moran, University of Melbourne

MA8b2-6 Retrodirective Airborne Radar for Urban Surveillance Louis Fertig, Georgia Tech Research Institute

MA8b2-7 MIMO Radar Direction Finding Performance Using Swerling Models Tuomas Aittomäki, Visa Koivunen, Helsinki University of Technology

MA8b2-8 Overcoming Polar Format Issues in MultiChannel SAR Autofocus

Hyun Jeong Cho, David Munson, University of Michigan

MA8b2-9 Nonlinear Decision Rules for Robust Noncoherent Integration Don Day, Johns Hopkins University

MA8b2-10 Reduced-Rank STAP Algorithm for Adaptive Radar Based on Joint Iterative Optimization of Adaptive Filters Rui Fa, Rodrigo de Lamare, Danilo Zanatta Filho, University of York

Session MA8b3 Multi-rate and Digital Signal Processing

McGill University

Session MA8b3 Multi-rate and Digital Signal Processing		MA8b3-13	A Polyphase Nonlinear Equalization Architecture and Semi-blind Identification Method Benjamin Miller, Joel Goodman, Matthew Herman, MIT			
Chair: Peter	r Stoica	10:30 AM - 12:10 PM		Lincoln Laboratory		
MA8b3-1	Gerald Fu Communic Southwest	st Folding Analog-to-Information Receiver udge, Mark Chivers, Sujit Ravindran, L-3 cations Integrated Systems; Ross Bland, UT ern; Phillip Pace, Naval Postgraduate School; upt, University of Wisconsin at Madison		nonline Muhami Oscar G Linkopii	rison of multiplierless implementation of ar-phase versus linear-phase FIR filters nad Abbas, Fahad Qureshi, Zakaullah Sheik, iustafsson, Hakan Johansson, Kenny Johanss ng University	n, on,
MA8b3-2 Extensive Behavioral Analysis of Super Resolution Techniques for Time of Arrival Estimation in Indoor Positioning Systems G M Roshan Indika Godaliyadda, Hari K. Garg, National			Subspa Peter Vo Hopkins	zation of Paraunitary Polyphase Matrice ce Projections ouras, Naval Research Lab; Trac Tran, John. University	_	
		of Singapore	Session N	IP1	MIMO Radar	
MA8b3-3	Annealin	ordlength Digital Filter Design Using Simulated	Chair: Rick	Blum		
	Byung Wo Korea Adv	ok Jung, Hyun Jong Yang, Joohwan Chun, vanced Institute of Science and Technology	MP1-1	imaging		1:30 PM
MA8b3-4	Sub-Ban Interpreta	d Analysis for Fault Detection and its Geometric		William Roberts, Tarik Yardibi, Jian Li, Xing Tan, University of Florida; Petre Stoica, Uppsala Univer:		ity
		Seker, Ahmet Hamdi Kayran, Istanbul Technical	MP1-2	Target	Localization Accuracy and Multiple Localization: Tradeoff in MIMO Radars	
MA8b3-5		nce Analysis of Post-Doppler STAP er Teixeira, Northrop Grumman Corporation			odrich, NJIT; Alexander Haimovich, New Jer of Technology; Rick Blum, NJIT	rsey
MA8b3-6		nt Dither in Fixed-Point FIR Digital Filters cy, Alan Oppenheim, MIT	MP1-3		a Placement for Velocity Estimation IIMO Radar	2:20 PM
MA8b3-7	Data in a	Preconditioning for the Interpolation of Missing Band-Limited Sequence abu, Erik Gudmundson, Petre Stoica, Uppsala		of Electr Blum, La Jersey In	e, currently visiting Lehigh University, Unive conic Science and Technology of China; Rick ehigh University; Alexander Haimovich, New astitute of Technology; Zishu He, University sic Science and Technology of China	,
MA8b3-8		int Filter Design and Riemannian Geometry Terna, Jim Nagle, Lothar Wenzel, National ts	MP1-4	Comple Radar	ex Point Target Model for Multistatic	2:45 PM
MA8b3-9		Paths in Spaces of IIR-Filters Terna, Jim Nagle, Lothar Wenzel, National		BREAI	Fuhrmann, Washington University in St. Loui K	3:10 PM
	Instrumen		MP1-5	Theorem	tical assessment of MIMO Radar	3:30 PM
MA8b3-10	Time Dis Anjana Pi Octavia D	Order Cyclostationarity of OFDM Signals in spersive Channels unchihewa, University of British Columbia; obre, Qiyun Zhang, Memorial University of land; Sreeraman Rajan, Robert Inkol, Defence	WII 1-3	Perforn Distribi <i>Yuri I. A</i>	nance in the Presence of Discrete and uted Clutter bramovich, Gordon Frazer, Defence Science ogy Organisation	
		and Development Canada	MP1-6		STAP Clutter Mitigation Performance	3:55 PM
MA8b3-11	Practical	Adaptive Matching Pursuit Algorithm for Compressed Sensing , Johns Hopkins University; Lu Gan, Brunel		Vito Me	stration using Acoustic Arrays cca, Jeffrey Krolik, Duke University; Frank MIT Lincoln Laboratory	
		; Nam Nguyen, Trac Tran, Johns Hopkins	MP1-7	Experir	wave MIMO Radar: The HiLoW mental Program	4:20 PM
MA8b3-12	performa	se linear DFT interpolation for IIR systems: nce and error bound computation ssi Dehkordi, Fabrice Labeau, Benoit Boulet,			Frazer, Yuri I. Abramovich, Defence Science ogy Organization; Ben A. Johnson, RLM Pty	

Session	MP2 Retinal Image Analysis		MP3-3	End-to-end Secure Multi-hop Communication 2:20 PM
Chair: Pet	er Soliz			with Untrusted Relays is Possible Xiang He, Aylin Yener, Penn State
MP2-1	Using Image Content to Diagnose and Stratify Diabetic Retinopathy		MP3-4	Multiple descriptions with codebook reuse Young-Han Kim, UCSD 2:45 PM
	Kenneth Tobin, Oak Ridge National Laboratory; Edv Chaum, University of Tennessee Health Science Cent	vard er:		BREAK 3:10 PM
	Luca Giancardo, Thomas Karnowski, Oak Ridge Nat Laboratory	ional	MP3-5	Cognitive Relaying with One-sided 3:30 PM Interference
MP2-2	Implications of Computer-assisted Retinal Image Analysis to Clinical Practice and Research in Ophthalmology: A need for Inter-disciplinary Teams Stephen Russell, University of Iowa		MP3-6	Onur Sahin, Elza Erkip, Polytechnic University On the Capacity of Cognitive Channels with Strong Interference Sriram Sridharan, Goochul Jung, Sriram Vishwanath, UT Austin
MP2-3	Survey of Automatic Retina Image Processing for Computer-aided Diagnosis Michael Abramoff, University of Iowa	2:20 PM	MP3-7	Gaussian Fading Interference Channels: 4:20 PM Power Control and Outage Probability Yang Weng, Daniela Tuninetti, UIC
MP2-4	Retinal Fundus Image Constrast Normalization using Mixture of Gaussians Abhir Bhalerao, Sarabjot Singh Anand, University of Warwick; Ponnusamy Saravanan, University Hospita		MP3-8	Interference Channels with Co-operating 4:45 PM Receivers Vinod Prabhakaran, Pramod Viswanath, University of Illinois, Urbana-Champaign
	Coventry and Warwickshire BREAK	3:10 PM	Session	MP4 Feedback in MIMO Systems
MD2.5			Chair: Da	vid Love & Vasanthan Raghavan
MP2-5	Autofluorescence Image Analysis in Age-related Macular degeneration (AMD) and Stargardt Disease (STGD) R Theodore Smith, Nuno Gomes, Mihai Busuioc, Noa	3:30 PM	MP4-1	On the Use of Feedback in Multiple Antenna 1:30 PM Common Information Broadcasting Chun Kin Au Yeung, David Love, Purdue University
MD2 (Lee, Andrew Laine, Columbia University	2.55 DM	MP4-2	Two Models for Noisy Feedback in MIMO 1:55 PM Channels
MP2-6	Interactive Segmentation for Geographic Atrophy in Retinal Fundus Images Noah Lee, R Theodore Smith, Andrew Laine, Columb University			Vaneet Aggarwal, Princeton University; Gajanana Krishna, Stanford University; Srikrishna Bhashyam, Indian Institute of Technology Madras; Ashutosh Sabharwal, Rice University
MP2-7	Detection and Phenotyping of Retinal Disease using AM-FM Processing for Feature Extractio Carla Agurto, Sergio Murillo, Victor Murray, Marios Pattichis, The University of New Mexico; Stephen Ru Michael Abramoff, University of Iowa; Peter Soliz,	n s	MP4-3	Nested Codebook Design For MIMO 2:20 PM Precoders Badri Varadarajan, Eko Onggosanusi, Anand Dabak, Runhua Chen, Texas Instruments
MP2-8	VisionQuest Biomedical New AM-FM Analysis Methods for Retinal Image Characterization Victor Murray, Marios Pattichis, University of New	4:45 PM	MP4-4	Codebook Design for the Spatially Correlated 2:45 PM MISO Broadcast Channel Vasanthan Raghavan, University of Illinois; Venugopal Veeravalli, University of Illinois at Urbana-Champaign
	Mexico; Peter Soliz, VisionQuest Biomedical and University of Iowa			BREAK 3:10 PM
Session	MP3 Information Theory		MP4-5	On the Capacity of MIMO Broadcast 3:30 PM Channels with Reduced Feedback by Antennas
Chair: Sen MP3-1	nur Ulukus Secret communication and key-sharing using	1:30 PM		Selection and Optimal Combining Matthew Pugh, Bhaskar Rao, University of California, San Diego
	sources and channels Vinod Prabhakaran, University of Illinois, Urbana- Champaign; Krishnan Eswaran, Kannan Ramchandr University of California, Berkeley		MP4-6	Feedback Requirements in MIMO Broadcast Channels: An Asymptotic Analysis Alireza Bayesteh, Amir K. Khandani, University of Waterloo
MP3-2	On Secure Broadcasting Ersen Ekrem, Sennur Ulukus, University of Maryland	1:55 PM <i>l</i>		

MP4-7	Space-Frequency Coding for MIMO-OFDM Systems with Limited Feedback Eunmo Kang, Akbar Sayeed, University of Wisconsin- Madison	4:20 PM	MP6-3	Principles and applications of dereverberation 2:20 PM for noisy and reverberant audio signals Masato Miyoshi, Keisuke Kinoshita, Tomohiro Nakatani, Takuya Yoshioka, NTT Communication Science	
MP4-8	Progressive Feedback for High Resolution Limited Feedback in MIMO Systems Robert Heath, Jr., The University of Texas at Austin; Wu, Anthony C.K. Soong, Huawei Technologies (USA		MP6-4	Laboratories, NTT Corporation Decomposition and dereverberation of multichannel audio Michael M. Goodwin, Creative ATC	
Session 1	MP5 Computer Arithmetic I			BREAK 3:10 PM	
Chair: Bra	den Phillips		MP6-5	Multi-Microphone Speech Dereverberation 3:30 PM	
MP5-1	Optimizing addition for sub-threshold logic David Blaauw, University of Michigan; Braden Philli The University of Adelaide	1:30 PM ips,		Based on Eigen-Decomposition - A Study Sharon Gannot, School of Engineering, Bar-Ilan University	
MP5-2	Fast and Accurate Activity Evaluation in Multipliers Arnaud Tisserand, LIRMM, CNRS-Univ. Montpellier	1:55 PM	MP6-6	Towards Multi-Microphone Speech 3:55 PM Dereverberation using Spectral Enhancement and Statistical Reverberation Models Emanuel A.P. Habets, Technion - Israel Institute of	
MP5-3	Radix-10 Digit-Recurrence Algorithm for	2:20 PM		Technology	
	Combined Division and Square Root with Limi Precision Primitives Milos D. Ercegovac, UCLA	ted	MP6-7	Multi-Channel Listening-Room 4:20 PM Compensation using a Decoupled Filtered-X LMS Algorithm	
MP5-4 Design challenges in floating-point addition and multiplication rounding for x87 Dimitri Tan, Carl Lemonds, Peter-Michael Seidel,		2:45 PM		tefan Goetze, University of Bremen; Markus Kallinger, Iniversity of Oldenburg; Alfred Mertins, University of uebeck; Karl-Dirk Kammeyer, University of Bremen	
	Advanced Micro Devices Inc. BREAK	3:10 PM	MP6-8	A General Derivation of Wave-Domain 4:45 PM Adaptive Filtering and Application to Acoustic Echo Cancellation	
MP5-5	Fused Floating-Point Arithmetic for DSP Earl E. Swartzlander, Jr., University of Texas at Aust Hani Saleh, Advanced Micro Devices	3:30 PM <i>in;</i>		Herbert Buchner, Sascha Spors, Deutsche Telekom Laboratories	
		3:55 PM	Session	MP7 Signal Processing and Learning for	
	Philip Amberg, Nathaniel Pinckney, David Money Ha Harvey Mudd College	urris,	Chair: Em	Sensor Signal Exploitation	
MP5-7	Dual Base Number System and Elliptic Curve Cryptography	4:20 PM	MP7-1	Interaction Analysis using Switching 1:30 PM	
	Cryptography Christophe Doche, Macquarie University; Laurent In University of Calgary	nbert,	IVII /-I	Structures Autoregressive Models Michael Siracusa, John Fisher, MIT	
MP5-8	Improving Fused Multiply Add Performance David Lutz, ARM	4:45 PM	MP7-2	Learning Classifiers for Wireless Sensor 1:55 PM Networks	
Session	•		MP7-3	Emre Ertin, Ohio State University Space Cutting for Distributed Localization 2:20 PM	
	channel System Inversion, an Speech Dereverberation	ıd	WII 7-3	Volkan Cevher, Petros Boufounos, Marco Duarte, Richard Baraniuk, Rice University	
Chair: Pat	rick A. Naylor		MP7-4	Joint Shape and Texture Analysis of Objects 2:45 PM	
MP6-1	Model-Based Dereverberation of Speech in the Mel-Spectral Domain Armin Sehr, Walter Kellermann, University Erlangen	1:30 PM		Boundaries in Images Using A Riemannian Approach Wei Liu, Anuj Srivastava, Florida State University	
	Nuremberg			BREAK 3:10 PM	
MP6-2	Adaptive Inverse Filtering of Room Acoustics Wancheng Zhang, Patrick Naylor, Imperial College London	1:55 PM	MP7-5	Fast posterior updates for sparse 3:30 PM undetermined linear models Lee Potter, Philip Schniter, Justin Ziniel, Ohio State University	

MP7-6	Virtual Sensors for Remote Sensing: Algorithms and Performance Analysis Benjamin Friedlander, University of California, Sa Cruz	3:55 PM
MP7-7	Fourier-Domain Multichannel Autofocus for Synthetic Aperture Radar Kuang-Hung Liu, David Munson, University of Mi	4:20 PM
MP7-8	A CMOS Video Sensor for High Dynamic Range (HDR) Imaging Thomas Poonnen, Li Liu, Ketan Karia, Michael Jo Jeffrey Zarnowski, Panavision Imaging, LLC	4:45 PM yner,
Session I		
	Estimation	
Chair: Weil	lian Su 1:30 PM	M - 3:10 PM
MP8a1-1	Resource Allocation for Distributed Detectio Networks Frank Namin, Aria Nosratinia, University of Texas Dallas	
MP8a1-2	Distributed Non-Parametric Detection with A Quantization for Wireless Sensor Networks Hongbin Li, Pu Wang, Stevens Institute of Technol	•
MP8a1-3	Outage Diversity for Distributed Estimation of Fading Channels Cihan Tepedelenlioglu, Arizona State University; Isenol, Kadir Has University; Kai Bai, Arizona State University	Habib
MP8a1-4	Modeling of Data Fusion Algorithms in Clus Wireless Sensor Networks Welian Su, Theodoros Bougiouklis, NAVAL POSTGRADUATE SCHOOL	ter-based
MP8a1-5	Distributed Routing in Wireless Sensor Netw Signal Detection with Random Phase Yang Yang, Rick Blum, Lehigh University	orks for
MP8a1-6	An Energy-efficient and Distributed Approac Beamforming in a Wireless Sensor Network Nikolaos Papalexidis, Owens Walker, Murali Tumi John McEachen, Naval Postgraduate School	
Session I	MP8a2 Wireless Network Manager	ment
Chair: Keit	h Teague 1:30 PM	M - 3:10 PM
MP8a2-1	A Closer Look at the Physical and Protocol Mireless Ad Hoc Networks with Multi-Packethyunchul Kim, Hamid Sadjadpour, University of California Santa Cruz; Jose Joaquin Garcia-Luna-University of California, Santa Cruz	et Reception
MP8a2-2	Doppler Measurements Rendering Random F Liang Dong, Western Michigan University	Routing
MP8a2-3	Protocols For Half-Duplex Multiple Relay No Peter Rost, Gerhard P. Fettweis, Technische Univer Dresden	

MP8a2-4	Admission Control for Power-Controlled Wireless
	Networks under General Interference Functions
	Slawomir Stanczak, Michal Kaliszan, Fraunhofer
	German-Sino Lab for Mobile Communications; Nicholas
	Bambos, Stanford University

- MP8a2-5 Multi-Channel Packet Capture in 802.11b/g Wireless Networks Douglas Geiger, George Scheets, Keith Teague, Jason Pitts. Oklahoma State University
- MP8a2-6 A New Achievable Rate For A Stochastic Two Relay Network With No Interference Ghosheh Abed Hodtani, Sharif Univ. of Tech.
- MP8a2-7 Joint Distributed Adaptive Quantization and Power Allocation in Wireless Sensor Networks

 Muhammad Hafeez Chaudhary, Abdellatif Vandendorpe,
 Luc Vandendorpe, Ecole Polytechnique de Louvain

Session MP8a3 OFDM/UWB

Chair: Xiaoli Ma 1:30 PM - 3:10 PM

- MP8a3-1 Iterative Detection for the Uplink of an OFDMA System with Frequency Offsets
 Sajid Ahmed, Li Zhang, University of Leeds
- MP8a3-2 Performance Evaluation of Adaptive MIMO-OFDM
 Systems with Imperfect Feedback in Measurement Based
 Channels
 Harri Pennanen, Jouko Leinonen, Xiaojia Lu, Marek
 Skowron, Matti Latva-aho, Centre for Wireless
 Communications, university of Oulu
- MP8a3-3 Frequency-Domain Joint Channel and Phase Noise Estimation in OFDM WLAN Systems Payam Rabiei, Won Namgoong, Naofal Al-Dhahir, University of Texas at Dallas
- MP8a3-4 Fast-Varying Doppler Compensation for Underwater Acoustic OFDM Systems. Taehyuk Kang, Ronald A. Iltis, University of California Santa Barbara
- MP8a3-5 Peak-to-Average Power Ratio versus Instantaneous-to-Average Power Ratio for OFDM Qijia Liu, G. Tong Zhou, Xiaoli Ma, Georgia Institute of Technology; Jie Wu, FutureWei Technologies Inc.
- MP8a3-6 Optimal Constellation Distortion for PAR Reduction in MIMO-OFDM Systems

 Moshe Malkin, Hao Zou, Alan John Malek, Stanford EE;

 Brian Krongold, University of Melbourne; John Cioffi,
 Stanford University
- MP8a3-7 A Regularized Least Squares Approach for Ultra-Wideband Time-of-Arrival Estimation with Wavelet Denoising Ted C.-K. Liu, Xiaodai Dong, Wu-Sheng Lu, University of Victoria

MP8a3-8	Adaptive Reduced-Rank Interference Suppression for DS-UWB Systems Based on Switched Approximation of Basis Functions Sheng Li, Rodrigo de Lamare, Danilo Zanatta Filho, University of York
MP8a3-9	CDMA vs. OFDM for Wideband Cellular Systems Yong Peng, Southern Methodist University; Giridhar Mandyam, Qualcomm Inc.; Dinesh Rajan, Southern Methodist University
MP8a3-10	New Multi-User OFDM Scheme: Braided Code Division Multiple Access Marcos B.S. Tavares, Michael Lentmaier, Technische Universitaet Dresden; Kamil Sh. Zigangirov, University of Notre Dame; Gerhard P. Fettweis, Technische Universität Dresden
MP8a3-11	Equalization for OFDM Over Doubly-Selective Channels Based on Oversampling Shakti Prasad Shenoy, Institut Eurecom; Francesco Negro, Irfan Ghauri, Infineon Technologies France; Dirk Slock, Institut Eurecom
Session N	MP8a4 MIMO OFDM and Cooperative
	Relaying
Chair: Lars	<i>Thiele</i> 1:30 PM - 3:10 PM
MP8a4-1	A Novel Framework for the Utilisation of Dynamic Relays in Cellular Networks Agisilaos Papadogiannis, Eric Hardouin, Ahmed Saadani, France Telecom R&D
MP8a4-2	Power Allocation Method for GMD-based Precoded MIMO-OFDM System with Reduced Feedback Kyeong Jin Kim, Nokia, Inc.; Peter Wang, Nokia Simens Network; Ronald A. Iltis, University of California
MP8a4-3	New protocols for the Cooperative MAC Charlotte Hucher, Ghaya Rekaya-Ben Othman, Ecole Nationale Supérieure des Télecommunications; Ahmed Saadani, France Telecom Research & Developpement
MP8a4-4	Weighted Sum-Rate Maximization for Downlink OFDMA Systems Chathuranga Weeraddana, Wei Li, Marian Codreanu, Matti Latva-aho, Centre for Wireless Communications
MP8a4-5	Temporal Autocorrelation Estimation for OFDM with Application to Spatial Interpolation Peter Klenner, Karl-Dirk Kammeyer, University Bremen
MP8a4-6	Robust Gain Allocation against Phase Uncertainty at the Relays for Multiuser Cooperative Networks Celal Esli, Armin Wittneben, ETH Zurich
MP8a4-7	Distributed Turbo Coding Using Log-Likelihood Thresholding for Cooperative Communications

Ghaleb Al-Habian, Ali Ghrayeb, Concordia University; Mazen Hasna, Adnan Abu-Dayya, Qatar University

On Distributed Codes with Noisy Relays Ragnar Thobaben, Royal Institute of Technology (KTH)

MP8a4-8

Session T	TA1b Compressive Sensing
MP8a4-13	Implementation Concepts for Distributed Cooperative Transmission Volker Jungnickel, Lars Thiele, Malte Schellmann, Thomas Wirth, Fraunhofer Institute for Telecommunications; Wolfgang Zirwas, Thomas Haustein, Egon Schulz, Nokia Siemens Networks
MP8a4-12	Design of Co-phasing Allpass Filters for Full-Duplex OFDM Relays Taneli Riihonen, Stefan Werner, Helsinki University of Technology; Juan Cousseau, Universidad Nacional del Sur; Risto Wichman, Helsinki University of Technology
MP8a4-11	Cooperation Diversity for Clipped OFDM with Iterative Reception Thomas Ketseoglou, California State Polytechnic University, Pomona
MP8a4-10	Predicting SINR conditions in mobile MIMO-OFDM systems by interpolation techniques Malte Schellmann, Lars Thiele, Volker Jungnickel, Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut
MP8a4-9	A low-complexity Doppler compensation scheme for mobile SIMO-OFDM systems Malte Schellmann, Lars Thiele, Volker Jungnickel, Fraunhofer Institute for Telecommunications, Heinrich- Hertz-Institut

Robust Recovery of Low-rank Matrices from 10:15 AM

10:40 AM

11:05 AM

11:30 AM

11:55 AM

Emmanuel Candes, Caltech; Maryam Fazel, University of Washington; Pablo Parrilo, MIT; Ben Recht, Caltech

Greedy Signal Recovery and Uncertainty

Deanna Needell, Roman Vershynin, UC Davis; Joel Tropp, California Institute of Technology Exact Low-rank Matrix Completion via

Benjamin Recht, Emmanuel Candes, California Institute

L1 filtering and streaming measurements in

Muhammad Asif, Justin Romberg, Georgia Tech

Group Testing and Sparse Signal Recovery

Anna Gilbert, University of Michigan

Noisy Measurements

Semidefinite Programming

compressive sampling

Principles

of Technology

TA1b-1

TA1b-2

TA1b-3

TA1b-4

TA1b-5

Session TA2b Functional Imaging and Analysis

Chair: Yongyi Yang

TA2b-1	Current Role of PET in Oncology: Potentials 10:15 AM				
	and Challenges in the Management of Non-Small				
	Cell Lung Cancer				
	Phaneendra Yalavarthy, Daniel Low, Camille Noel,				
	Washington University in St. Louis; Zhouping Wei, Philips				
	Medical Systems; Deshan Yang, Aditya Apte, Jeffrey				
	Bradley, Joseph Deasy, Issam El Naqa, Washington				
	University in St. Louis				

TA2b-2 Helical Artifact Suppression in Iterative CT 10:40 AM Reconstruction

Jiao Wang, University of Notre Dame; Jean-Baptiste
Thibault, GE Healthcare; Zhou Yu, Purdue University;
Ken Sauer, University of Notre Dame; Charles Bouman,
Purdue University

TA2b-3 Improved PASL EPI Acquisitions With Parallel Imaging and UNFOLD

W. Scott Hoge, Brigham and Women's Hospital and Harvard Medical School; Huan Tan, Robert A. Kraft, Wake Forest University School of Medicine

TA2b-4 Spatio-temporal MAP reconstruction of gated 11:30 AM cardiac images using DFT basis functions

Xiaofeng Niu, Yongyi Yang, Illinois Institute of Technology

TA2b-5 New Image Analysis Tools for 11:55 AM
Hyperpolarized Helium-3 Magnetic Resonance
Imaging Ventilation Defect Changes over time.
Grace Parraga, Robarts Research Institute; David G.
McCormack, The University of Western Ontario

Session TA3b Secrecy Capacity and Interference Channels

Chair: Daniela Tuninetti

TA3b-1	Feedback is useful for Two-way Secure Communication	10:15 AM
	Xiang He, Aylin Yener, Penn State	
TA3b-2	On the Noisy Interference Regime of the	10:40 AM

TA3b-2 On the Noisy Interference Regime of the MISO Gaussian Interference Channel

Bernd Bandemer, Aydin Sezgin, Arogyaswami Paulraj,

Stanford University

TA3b-3 Parametrization of the MISO Interference 11:05 AM
Channel with Transmit Beamforming and Partial
Channel State Information
Johannes Lindblom, Erik G. Larsson, Linköping
University; Eduard A. Jorswieck, Dresden University of
Technology

TA3b-4 Outer bounds for the MIMO interference 11:30 AM channel
Peter Parker, Daniel W. Bliss, MIT Lincoln Laboratory

Session TA4b Multiuser MIMO Broadcast

Chair: Timothy Davidson

TA4b-1	Probabilistically Constrained Robust Power	10:15 AM
	Allocation in Downlink Multiuser MISO Syst	tems
	Nikola Vucic, Fraunhofer HHI; Holger Boche, TU	Berlin

TA4b-2 Probabilistically-Constrained Approaches to 10:40 AM the Design of the Multiple Antenna Downlink Michael Botros Shenouda, Timothy Davidson, McMaster University

TA4b-3 Network MIMO with reduced backhaul 11:05 AM requirements by MAC coordination

Federico Boccardi, Howard Huang, Angeliki Alexiou,

Alcatel-Lucent

TA4b-4 Spectral Efficiency of Wireless Networks 11:30 AM with Multi-Antenna Base-Stations and Spatially Distributed Nodes

Siddhartan Govindasamy, Daniel W. Bliss, David H. Staelin, Massachusetts Institute of Technology

Session TA5b Communication Architectures

Chair: Joseph R. Cavallaro

TA5b-1 Configurable High-Throughput Decoder 10:15 AM
Architecture for Quasi-Cyclic LDPC Codes
Christoph Studer, Nicholas Preyss, Christoph Roth,
Andreas Burg, ETH Zurich, Switzerland

TA5b-2 High-level Methodology for Implementing 10:40 AM Communication Algorithms in Programmable

Logic: a Sphere Decoder Case Study

Jorn W. Janneck, Ian D. Miller, David B. Parlour, Xilinx

Inc.: Chris H. Dick. Xilinx. Inc.

TA5b-3 Forward Error Correction Decoding for 11:05 AM WiMAX and 3GPP LTE Modems

Manish Goel, Jing-Fei Ren, Yuming Zhu, Seok-Jun Lee,
Texas Instruments, Inc; Yang Sun, Rice University

TA5b-4 Next Generation Iterative LDPC Solutions for 11:30 AM Magnetic Recording Storage

Kiran Gunnam, Shaohua Yang, Yuanxing Lee, LSI

Corporation; Mark Yeary, University of Oklahoma; Gwan

Choi, Texas A&M University

TA5b-5 FPGA Implementation of High Throughput 11:55 AM 600 Mbps Wireless LAN System using 4 X 2 MIMO-OFDM

Wahyul Amien Syafei, Yuhei Nagao, Masayuki Kurosaki, Baiko Sai, Hiroshi Ochi, Kyushu Institute of Technology

Session TA6b Wireless Sensor Networks

Chair: Ananthram Swami

TA6b-1 Information Quality Aware Sensor Network 10:15 AM Services

Sadaf Zahedi, UCLA; Edith Ngai, Erol Gelenbe, Imperial College; Dinkar Mylaraswamy, Honeywell; Mani Srivastava, UCLA

TA6b-2	A Linear Iterative Algorithm for Distributed 10:40 AM Sensor Localization Usman Khan, Soummya Kar, José M. F. Moura, Carnegie Mellon University
TA6b-3	Utility-Based Joint Sensor Selection and 11:05 AM Congestion Control for Mission-Oriented WSNs Thomas La Porta, Penn State University; Amotz Bar Noy, CUNY; Sharanya Eswaran, Penn State University; Matt Johnson, CUNY; Archan Misra, IBM Research; Diego Pizzocaro, Alun Preece, University of Cardiff; Hosam Rowaihy, Penn State University
TA6b-4	Distributed Equalization and Decoding Using 11:30 AM Wireless Sensor Networks Hao Zhu, Alfonso Cano, Georgios B. Giannakis, University of Minnesota
TA6b-5	Network Information Flow: Gossiping with 11:55 AM Groups Mehmet E. Yildiz, Tuncer Can Aysal, Anna Scaglione, Cornell University
Session 7	A7b Adaptive Methods and Monte Carlo
	Signal Processing
Chair: Peta	r Djuric
TA7b-1	Complex systems and particle filtering 10:15 AM Monica F. Bugallo, Petar M. Djuric, Stony Brook University
TA7b-2	Multiple Target Tracking Using Likelihood 10:40 AM Particle Filtering and Adaptive Waveform Design Ioannis Kyriakides, Tom Trueblood, Antonia Papandreou- Suppappola, Arizona State University
TA7b-3	Detection of variance changes and mean 11:05 AM value jumps in measurement noise for multipath mitigation in urban navigation Mariana Spangenberg, TéSA; Jean-Yves Tourneret, ENSEEIHT; Vincent Calmettes, University of Toulouse; Grégoire Duchâteau, Thales Alenia Space
TA7b-4	Cooperative Blind Equalization of 11:30 AM Frequency-Selective Channels in Sensor Networks using Decentralized Particle Filtering Claudio Jose Bordin, Jr., Marcelo G. S. Bruno, Instituto Tecnologico de Aeronautica
TA7b-5	Adaptive Local Quantizer Design for 11:55 AM Tracking in a WSN Onur Ozdemir, Ruixin Niu, Pramod K. Varshney, Syracuse University
Session 7	TA8b1 Image/Video Processing,
	Quantization and Coding
Chair: John	Fisher 10:15 AM - 11:55 AM

Joint Detection, Segmentation, and Registration of

Elastically Deformable Objects Gilad Cohen, Joseph Francos, Rami Hagege, Ben Gurion

TA8b1-1

University

TA8b1-2	A Spatial Neighborhood Model for Detection for Hyperspectral Imaging Cameron Grant, Todd Moon, Jacob Gunther, Matthew Stites, Utah State University; Gustavious Williams, Brigham Young University
TA8b1-3	Iris Recognition using the Ridge Energy Direction (RED)Algorithm Robert Ives, Randy Broussard, Lauren Kennell, Ryan Rakvic, Delores Etter, U.S. Naval Academy
TA8b1-4	Image and Video Colorization Vivek Jacob, Postgraduate student; Sumana Gupta, Professor
TA8b1-5	Invariance Properties of AM-FM Image Features Senthil Prakash Ramalingam, Aravind Rangarajan, Indian Institute of Technology Madras
TA8b1-6	Comparison of Wavelet Filters Using Objective Quality Measures Bhawna Garg, Panjab University, Chandigarh
TA8b1-7	Complex Wavelet Based Modulation Analysis Jean-Marc Luneau, Aalborg University; Jerome Lebrun, CNRS; Søren Holdt Jensen, Aalborg University
TA8b1-8	Algorithms for Old Master Painting Canvas Thread Counting from X-Rays Andrew Klein, Worcester Polytechnic Institute; William Sethares, Heichang Lee, Univ. of Wisconsin - Madison; C. Richard Johnson, Jr., Cornell University; Ella Hendriks, Van Gogh Museum
TA8b1-9	Performance prediction for reconstruction problems in computer vision Matthew Ferrara, Air Force Research Laboratory; Peter Stiller, Texas A & M University
Session T	A8b2 Speech Analysis and Recognition
Chair: John	Fisher 10:15 AM - 11:55 AM
TA8b2-1	LSF and LPC - Derived Features for Large Vocabulary Distributed Continuous Speech Recognition in Brazilian Portuguese Vladimir Alencar, Abraham Alcaim, PUC-RIO
TA8b2-2	Automatic labelling of foreign-accented speech Rene Arechiga, New Mexico Tech
TA8b2-3	Objective Analysis of Temporally Varying Audio Quality Metrics Joseph Hardin, Charles Creusere, Klipsch School of Electrical and Computer Engineering
TA8b2-4	Improved Detection Performance of a Speech Recognizer in an Automotive Environment. Ashtosh Sapru, Aricent Communications Pvt. Ltd.; Ravi Lakkundi, Nisar Ahmed, Aricent Communications Pvt

Waveform Approximating Residual Audio Coding with

Perceptual Pre- and Post-Filtering

Larsen, Aalborg University

Jesper Kjær Nielsen, Jesper Rindom Jensen, Mads Græsbøll Christensen, Søren Holdt Jensen, Torben

Limited

TA8b2-5

TA8b2-6	Fast Speaker Identification Using Speaker Model Clustering Vijendra Raj Apsingekar, Phillip De Leon, New Mexico State University	TA8b4-4	Joint Optimization of Transceivers with Decision Feedback and Bit Loading Ching-Chih Weng, Chun-Yang Chen, P. P. Vaidyanathan California Institute of Technology
TA8b2-7	An Off-site Text-Independent Speaker Identification Model Using Multi-Classifiers Pankaj Sharma, Maheshchandra Srivastava, Vineet Khandelwal, Jaypee Institute of Information Technology	TA8b4-5	Mobility Dependent Feedback Scheme for point-to MIMO Systems Gonzalo Vazquez-Vilar, Vinay Majjigi, Aydin Sezgin, Arogyaswami Paulraj, Stanford University
G • 1	University	TA8b4-6	Joint Throughput Optimized CQI and Precoding W Calculation for MIMO HSDPA
Session '	TA8b3 Quantization, Coding, and Encryption		Christian Mehlführer, Sebastian Caban, Martin Wrulich,
Chair: Joh	· -	TA8b4-7	Markus Rupp, Vienna University of Technology Tile based MIMO OFDMA systems: Impact of out
TA8b3-1	An Improved WSQ Fingerprint Image Compression Algorithm	17100+ /	feedback Aydin Sezgin, Bernd Bandemer, Stanford University; Eduard A. Jorswieck, Dresden University of Technology
TA8b3-2	Jinshan Tang, Xiaoming Liu, Alcorn State University Efficient Correlation Extraction for Distributed Audio Coding Sandeep Matta, Charles Creusere, New Mexico State	TA8b4-8	Distortion-Rate Tradeoff of a Source Uniformly Distributed over Positive Semi-definite Matrices Rajesh Krishnamachari, Mahesh Varanasi, University of Colorado
	University	TA8b4-9	LR-Aided Precoding with a Modified LLL Algorith
TA8b3-3	Weighted Distortion for Robust Video Coding Sunday Nyamweno, Ramdas Satyan, Sedar Burak Solak, Fabrice Labeau, McGill University		Limited Feedback MIMO Systems Hyun Jong Yang, Joohwan Chun, Korea Advanced Institute of Science and Technology
TA8b3-4	Optimization of Audience Encoding in Low-Resolution Soccer Video Sequences Luca Superiori, Alfredo Font Perez, Markus Rupp, TU Vienna	TA8b4-10	Hybrid ARQ Schemes in Multiple-Antenna Slow F Channels: A Capacity Perspective Cong Shen, Michael Fitz, University of California, Los Angeles
TA8b3-5	Generalized Fast Index Assignment for Robust Multiple Description Scalar Quantizers	Session 7	
	Rui Ma, Fabrice Labeau, McGill University	Chair: Lang	g Tong & Parv Venkitasubramaniam
TA8b3-6	Image Encryption Algorithms Based on Generalized P-Gray Code Bit Plane Decomposition Yicong Zhou, Karen Panetta, Tufts University; Sos Agaian, University of Texas at San Antonio	TP1a-1	Distributed Parameter Estimation in Sensor Networks With Random Link Failures and Quantized Inter-Sensor Communication Soummya Kar, José M. F. Moura, Carnegie Mellon
Session '	TA8b4 Limited Feedback and Precoding		University
AM	P. Vaidyanathan & Eduard Jorswieck 10:15 AM - 11:55	TP1a-2	Analysis of noisy consensus algorithms on arbitrary graphs Ram Rajagopal, Martin Wainwright, University of
TA8b4-1	Limited CSI Feedback based on an Adaptive Codebook for Temporally Correlated MISO Fading Channels Dan Zhang, Meik Dörpinghaus, Gerd Ascheid, RWTH Aachen University	TP1a-3	California at Berkeley Decentralized Detection with Long-Distance 2:: Communication O. Patrick Kreidl, Alan S. Willsky, MIT
TA8b4-2	Per-Antenna Power Constrained MIMO Transceivers Optimized for BER Ching-Chih Weng, P. P. Vaidyanathan, California Institute of Technology	TP1a-4	On the Divergence-Cost Function in 2: Distributed Detection with a Secrecy Constraint Stefano Marano, Vincenzo Matta, University of Salerno; Peter Willett, University of Connecticut

Joint Design of Limited Feedback and Multiuser Precoding Based on a Precoding MSE Metric Michael Joham, TU Munich; Paula Castro, University of A Coruna; Jian Zhen, TU Munich; Luis Castedo, University of A Coruna; Wolfgang Utschick, TU Munich

TA8b4-3

TA8b4-4	Joint Optimization of Transceivers with Decision Feedback and Bit Loading Ching-Chih Weng, Chun-Yang Chen, P. P. Vaidyanath	
	California Institute of Technology	
TA8b4-5	Mobility Dependent Feedback Scheme for point MIMO Systems	-to-point
	Gonzalo Vazquez-Vilar, Vinay Majjigi, Aydin Sezgin, Arogyaswami Paulraj, Stanford University	
TA8b4-6	Joint Throughput Optimized CQI and Precoding Calculation for MIMO HSDPA Christian Mehlführer, Sebastian Caban, Martin Wruli	C
	Markus Rupp, Vienna University of Technology	cn,
TA8b4-7	Tile based MIMO OFDMA systems: Impact of of feedback	outdated
	Aydin Sezgin, Bernd Bandemer, Stanford University; Eduard A. Jorswieck, Dresden University of Technolog	gy
TA8b4-8	Distortion-Rate Tradeoff of a Source Uniformly Distributed over Positive Semi-definite Matrices	
	Rajesh Krishnamachari, Mahesh Varanasi, University Colorado	
TA8b4-9	LR-Aided Precoding with a Modified LLL Algo Limited Feedback MIMO Systems Hyun Jong Yang, Joohwan Chun, Korea Advanced Institute of Science and Technology	rithm for
TA8b4-10	Hybrid ARQ Schemes in Multiple-Antenna Slov Channels: A Capacity Perspective Cong Shen, Michael Fitz, University of California, Los Angeles	_
Session T	P1a Distributed Statistical Inferen	ıce
Chair: Lang	Tong & Parv Venkitasubramaniam	
TP1a-1	Distributed Parameter Estimation in Sensor Networks With Random Link Failures and Quantized Inter-Sensor Communication Soummya Kar, José M. F. Moura, Carnegie Mellon University	1:30 PM
TP1a-2	Analysis of noisy consensus algorithms on arbitrary graphs Ram Rajagopal, Martin Wainwright, University of California at Berkeley	1:55 PM
TP1a-3	Decentralized Detection with Long-Distance	2:20 PM

2:45 PM

Session	TP1b Statistical Signal Processing Forensics and Security	for	TP2-6	imaging	e limits of MR diffusion tensor	3:55 PM
Chair: Ho	ng (Vicky) Zhao		TP2-7		pal Shape in Twin Pairs Discordant	4:20 PM
TP1b-1 Secure Methods for Fuzzy Key Binding in Biometric Authentication Applications Francis Minhthang Bui, Dimitrios Hatzinakos, University of Toronto		3:30 PM ersity		California L Jaakko Kap	phrenia p, Paul Thompson, Gil Hoftman, Univer .os Angeles; Matti Huttunen, Jouko Lönn rio, Oili Salonen, Leena Valanne, Carl-C ild-Nordenstam, Department of Mental H	qvist, Fustav
TP1b-2	Detection and Defense against Colluded Misbehaviors in Reputation Systems Yafei Yang, Yuhong Liu, Yan Sun, University of Rhou Island	3:55 PM de	TP2-8	and Alcohol Helsinki Ce Tyrone Can	Research; Veli-Pekka Poutanen, Univer ntral Hospital, Meilahti Clinics; Arthur T non, University of California Los Angele	sity of Toga, s
TP1b-3	Attack-Resistant Cooperation Strategies in P2P Live Streaming Social Networks W. Sabrina Lin, University of Maryland, College Pa H. Vicky Zhao, University of Alberta; K. J. Ray Liu, University of Maryland, College Park	4:20 PM <i>rk</i> ;	11 2-0	Squares tec Recognition Magnetic I Herbert Day	on of Boosting and Partial Least chniques for real-time Pattern on of Brain Activation in Functional Resonance Imaging vis, Stefan Posse, E. Castro Witting, Pete aQuest Biomedical LLC	4:45 PM r
TP1b-4	Several Practical Versions of the Gradient Attack on Fingerprinting Schemes	4:45 PM	Session	TP3a l	Delay-Rate Tradeoffs	
	Shan He, Thomson Corporate Research; Darko Kiro	ovski,	Chair: Tai	ra Javidi		
TP1b-5	Microsoft Research Statistical Fusion of Multiple Cues for Image Tampering Detection Yu-Feng Hsu, Shih-Fu Chang, Columbia University	5:10 PM	TP3a-1	for imperfe protocols	e throughput and queueing delay ect cooperative retransmission MAC er, Athina Petropulu, Drexel University	1:30 PM
Session	and Structural Brain Imagin		TP3a-2	Delay-min Power Cor	imal Transmission for Average astrained Multi-access Communicati Sennur Ulukus, University of Maryland	1:55 PM ons
Chair: <i>Vin</i> TP2-1	ce Calhoun & Sunanda Mitra Generating Structure-function Correlation by ICA- based Mapping of Activation Patterns on registered fMRI and FA-DTI	1:30 PM Co-	TP3a-3	Delay anal Channel w Raghava N.	ysis of Block Coding over a Noisy ith Limited Feedback Swamy, Tara Javidi, UCSD at Delay Tradeoff for Wireless	2:20 PM 2:45 PM
TP2-2	Sunanda Mitra, M. O'Boyle, F. Afrin, B. Nutter, M. R. Pal, B. Ghosh, Texas Tech University Optimal Sampling Geometries for TV-Norm	Baker, 1:55 PM		Jianqi Wang	Using Hybrid-ARQ Protocols 3, Seung Young Park, David Love, Micha Purdue University	el
	Reconstruction of fMRI Data Oliver Jeromin, Vince Calhoun, Marios Pattichis,		Session	TP3b	Relaying and Cooperation II	[
	University of New Mexico		Chair: Os	valdo Simeon	e	
TP2-3	Spatial Patterns and Functional Profiles for Discovering Structure in fMRI Data Polina Golland, Danial Lashkari, Archana Venkatan MIT CSAIL		TP3b-1	Heterogen Harish Gan	Relay Cooperation In eous Cellular Uplink Systems apathy, The University of Texas, Austin; rews, University of Texas at Austin;	3:30 PM
TP2-4	Brain Surface Conformal Parameterization with Holomorphic Flow Method and Its Applic to HIV/AIDS Yalin Wang, UCLA, Neurology Department; Jie Zha Zhejiang University, China; Tony Chan, Arthur Togo Paul Thompson, UCLA Mathematics Department	ng,	TP3b-2	Constantine Training D Optimizati Channels	Caramanis, The University of Texas, Audesign for Information Rate on over Amplify and Forward Relay Azadeh Vosoughi, University of Rochest	3:55 PM
	BREAK	3:10 PM	TP3b-3	Preprocess	I Space-time Codes with Relay ing for Low SNR Source-Relay Lin	4:20 PM
TP2-5	Exploration of the Optimal Group-discriminating Features Using CC-ICA Jing Sui, Vince Calhoun, The Mind Research Netwo	3:30 PM		Birsen Sirke	cci-Mergen, San Jose State University	

TP3b-4	Analysis of Amplify-and-Forward DSTBCs over the Random Set Relay Channel <i>Qiang Xue, Giuseppe Abreu, University of Oulu; Beha</i>	4:45 PM	Session 7	ГР5а	Integrated Algorithm and Architecture Implementation	ı
	Aazhang, Rice University		Chair: Kes	hab Parhi		
TP3b-5	Circumventing Base Station Cooperation through Kalman Prediction of Intercell Interfere Ralf Bendlin, Yih-Fang Huang, University of Notre Dame; Josef Nossek, Michel Ivrlac, Munich University		TP5a-1	Rajan Nai	Error Correction for High-Speed I/O rasimha, Naresh Shanbhag, University of Ila-champaign	1:30 PM
Session T	Technology	y 0 <i>)</i>	TP5a-2	Soft-deci	chitecture Design for Algebraic ision Reed-Solomon Decoding Zhang, Case Western Reserve University	1:55 PM
Chair: Aria	Nosratinia		TP5a-3		Algorithm and VLSI Architecture	2:20 PM
TP4-1	Switching Between Antenna Selection and Spatial Multiplexing in the Amplify-and-Forwa MIMO Relay Channel			Compens Hongbin S	or Variable Block Size Motion sated De-Interlacing Sun, Nanning Zheng, Xi'an Jiaotong Univer ng, Rensselaer Polytechnic Institute	sity;
	Steven Peters, Robert Heath, Jr., University of Texas Austin		TP5a-4	-	eed Implementation of Smith- an Algorithm for DNA Sequence Scann	2:45 PM ing
TP4-2	MIMO Two-way Relay Channel: Diversity-Multiplexing Trade-off Analysis Deniz Gunduz, Princeton/Stanford University; Andrea	1:55 PM			eng, Marvell Semiconductor; Keshab K. Par v of Minnesota, Twin Cities	hi,
	Goldsmith, Stanford University; H. Vincent Poor, Princeton University		Session 7	ГР5b	Cognitive Systems and Spect	rum
TP4-3	Deterministic capacity of MIMO relay networks	2:20 PM	Chair: <i>Srir</i>	am Vishwa	Sharing	
	Anders Host-Madsen, University of Hawaii					
TP4-4	Layered Randomized Cooperation for Multicast Ozgu Alay, Ran Ding, Elza Erkip, Yao Wang, Polytec	2:45 PM hnic	TP5b-1	Ad Hoc 1	n Sharing in Cellular Networks: An Network Underlay fman, Behnaam Aazhang, Rice University	3:30 PM
	University; Anna Scaglione, Cornell University BREAK	3:10 PM	TP5b-2	1	n Allocation from a Game Theoretic	3:55 PM
TP4-5	Coding for the fading interference channel Jean-Claude Belfiore, Maya Badr, Lina Mroueh, ENS	3:30 PM		Peter von	ive: Properties of Nash Equilibria Wrycza, M. R. Bhavani Shankar, Mats 1, Björn Ottersten, Royal Institute of Techno	logy
TP4-6	Multiaccess Relay Channel with Opportunistic Channel Access Mohamed Abouelseoud, Aria Nosratinia, University of	3:55 PM	TP5b-3	Secondar Single-ba	ry Transmission Profile for a and Cognitive Interference Channel Dash, Ashutosh Sabharwal, Rice University	4:20 PM
TP4-7	Texas at Dallas Optimum Time-Division in MIMO Two-Way Decode-and-Forward Relaying Systems Jian Zhao, Marc Kuhn, Armin Wittneben, ETH Zurich Gerhard Bauch, DoCoMo Euro-Labs		TP5b-4	Spectrum Erika Por de Carval	ental Study of a Wavelet-based n Sensing Technique tela Lopes de Almeida, Paulo Henrique Por lho, Pedro Antero Braga Cordeiro, Universi a; Robson Domingos Vieira, Instituto Nokia	ty
TP4-8	Resource Allocation for the Parallel Relay Channel with Multiple Relays Kagan Bakanoglu, Elza Erkip, POLYTECHNIC UNIVERSITY; Stefano Tomasin, University of Padove	4:45 PM	TP5b-5	Quality I	Resource Allocation With Perceived	5:10 PM
TP4-9	To Code or Not To Code In Multi-Hop Relay	5:10 PM	Session 7		Interference Management an	d
	Channels Rahul Vaze, Robert Heath, Jr., The University of Texa Austin	as at		-	Cooperative Communication hoc Networks	
			Chair: Min	Dong & B	Ben Liang	

TP6-1

Generalized Degrees of Freedom of X Networks

Syed Jafar, Chiachi Huang, University of California Irvine

1:30 PM

	Networks Krishnan Eswaran, Michael Gastpar, UC Berkeley			Analysis for Signal ar	nd Image
TP6-3	Adaptive Power Loading for OFDM Cooperative Networks	2:20 PM	Chair: Ma	Processing Systems tthew Ferrara	
	Osama Amin, Murat Uysal, University of Waterloo				. 220 DM
TP6-4	Spectrum Enforcement and Liability Assignment in Cognitive Radio Systems George Atia, Venkatesh Saligrama, Boston Univers.	2:45 PM	TP7b-1	Performance of Cued Target Acquisit Systems: Impact of Automatic Target Robert Frankot, Raytheon Missile Systems	Recognition
	Anant Sahai, UC Berkeley BREAK	3:10 PM	TP7b-2	Confuser Rejection Performance Mod David Doria, Raytheon Space and Airborn	
TP6-5	Generalized Relaying in the Presence of Interference Ron Dabora, Ivana Maric, Andrea Goldsmith, Stanj	3:30 PM	TP7b-3	SAR Focusing Performance for Movi Objects with Random Motion Compo Ahmed Fasih, Emre Ertin, Randolph Mose State University	nents
TP6-6	Univ. Spectrum Allocation in Two-Tier Networks Vikram Chandrasekhar, The University of Texas at	3:55 PM	TP7b-4	Detecting Curves in SAR Data Kaitlyn Voccola, Margaret Cheney, Birsen Rensselaer Polytechnic Institute; Matthew	
	Jeffrey Andrews, University of Texas at Austin	Ausun,		Force Research Lab	Terrara, Itr
TP6-7	Distributed Spectrum Sensing for Cognitive Radios by Exploiting Sparsity Juan-Andres Bazerque, Georgios B. Giannakis, Uni of Minnesota	4:20 PM	TP7b-5	Non-Algorithm-Specific ATR Perform Estimation Donald Waagen, Nitesh Shah, Harry Schm Company	
TP6-8	Interference Channel with One Cognitive	4:45 PM	Session	TP8a1 Adaptive Systems and	d Processing
	Transmitter Yi Cao, Biao Chen, Syracuse University		Chair: Vica	tor DeBrunner	1:30 PM - 3:10 PM
Session	TP7a Detection, Processing and F	usion in	TP8a1-1	Reduced-Rank Interference Suppressi	
	Distributed Sensor Systems			GPS Systems based on Adaptive Basi Approximation	s-Function
Chair: Ak	os Ledeczi & Xenofon Koutsooukos			Danilo Zanatta Filho, Rodrigo de Lamare, University of York	, Rui Fa,
TP7a-1	Lightweight Acoustic Classification for Cane-Toad Monitoring Thanh Dang, Nirupama Bulusu, Portland State Uni Wen Hu, CSIRO ICT Centre	1:30 PM versity;	TP8a1-2	Active Noise Control Based On Kerne Square Algorithm Hua Bao, University of Texas at Dallas; Is Nishank Pathak, University of Texas as Da	ssa Panahi,
TP7a-2	Applying Blind Methods to Bird Call Classification and Detection in a Complex Ace Environment Lewis Girod, Vladimir Bychkovsky, MIT	1:55 PM oustic	TP8a1-3	An Efficient and Effective Variable S' Algorithm Hideki Takekawa, Tetsuya Shimamura, Sa University; Shihab Jimaa, KUSTAR Unive	tep Size NLMS itama
TP7a-3	Target Tracking in Urban Environments using Audio-Video Signal Processing in Heterogene Wireless Sensor Networks Manish Kushwaha, ISIS, Vanderbilt University; Son	ous eghwai	TP8a1-4	A Robust Active Noise Control Algor identifying secondary path Hieu Thai, Minh Ta, Victor DeBrunner, Fl University	rithm without
	Oh, School of Engineering, UC Merced; Isaac Amu Xenofon Koutsoukos, Akos Ledeczi, ISIS, Vanderbil University		TP8a1-5	New Stable IIR Modeling of Long FII Complexity Jie Chen, Keshab K. Parhi, University of N	
TP7a-4	Energy-efficient Sensor Management in Multi-static Active Sonar Networks	2:45 PM	Session		
	Andreas Terzis, I-Jeng Wang, Johns Hopkins Unive	rsity			1:30 PM - 3:10 PM
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1:55 PM

Session TP7b

TP8a2-1

Signals

TP6-2

On the Role of Feedback and Interaction in

Performance Prediction and

Leading Edge Detection in Colored Noise for IR-UWB

Sayit Korkmaz, Alle-Jan van der Veen, TU Delft

TP8a2-2	Estimating Homeomorphic Deformations of Multi- Dimensional Signals - An Accuracy Analysis Benjamin Friedlander, University of California, Santa Cruz
TP8a2-3	Subspace-based Cooperative Spectrum Sensing for Cognitive Radio Raghavendra Rao, Qi Cheng, Oklahoma State University; Priyadip Ray, Syracuse University
TP8a2-4	An Exact Recursive Filter For Quadrature Amplitude Modulation Dynamics Robert Elliott, University of Calgary; William Malcolm, Australian national University
TP8a2-5	Propagator Method for Joint Time Delay and Frequency Estimation Mahmoud Qasaymeh, Hirenkumar Gami, Wichita State University; Nizar Tayem, ITT Technical Institute; Ravi Pendse, Wichita State University
TP8a2-6	Joint Estimation of Gain/Phase Mismatches And I/Q Imbalances In Array Antenna Subsystems Zhiwen Zhu, Xinping Huang, Communications Research Centre Canada
TP8a2-7	Nonparametric detection of the number of signals and random matrix theory Shira Kritchman, Boaz Nadler, Weizmann Institute of Science
TP8a2-8	Extension of Reed-Mallett-Brennan (RMB) Loss for Application to STAP With Collected Data Christopher Teixeira, Northrop Grumman Corporation
TP8a2-9	Parameter estimation in wireless channel networks using second order statistics Magnus Mossberg, Karlstad University
TP8a2-10	Parameter Estimation from Shift-Invariant Subspaces Richard Vaccaro, University of Rhode Island
TP8a2-11	Structured Non-negative Matrix Factorization with Sparsity Patterns Hans Laurberg, Aalborg University; Mikkel N. Schmidt,

Technical University of Denmark, Mads Græsbøll Christensen, Søren Holdt Jensen, Aalborg University

An Overview of Renyi Entropy and Some Potential

Detection of Signal Discontinuities from Noisy Fourier

Adityavikram Viswanathan, Douglas Cochran, Anne Gelb,

On the Effect of Channel Estimation Error Upon the

Sequential Unfolding SVD for Low Rank Orthogonal

Performance of Distributed Detection Systems

Hamidreza Ahmadi, Azadeh Vosoughi, University of

Jussi Salmi, Andreas Richter, Visa Koivunen, Helsinki

Ed Beadle, Jim Schroeder, Harris Corp.; Bill Moran,

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TP8a2-13

TP8a2-14

TP8a2-15

Applications

Rochester

University of Melbourne

Tensor Approximation

University of Technology

Dennis Cates, Arizona State University

TP8a2-16	Blind Source Separation	nce Enhancement in Convolutive
TP8a2-17	The Decentralized Estin Anna Scaglione, Roberto P Hamid Krim, North Carolin	0 ,
TP8a2-18	Adaptive Discovery of S Jarvis Haupt, Rui Castro, F Wisconsin Madison	parse Signals in Noise Robert Nowak, University of
TP8a2-19	Applying Blind Method Detection in a Complex Vladimir Bychkovsky, Lewi	
TP8a2-20	Maximum Likelihood P uniform Noise Fields Us Da Xie, Tingting Niu, Jiang Polytechnical University; F Institute of Technology	uo Huang, Northwestern
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Chair: Benj	amin Friedlander	1:30 PM - 3:10 PM
TP8a3-1	Full-Rate Full-Diversity M. Rezk, UCSC; Benjamin California, Santa Cruz	
TP8a3-2	Joint Channel-Symbol E Differential MIMO M. Rezk, UCSC; Benjamin California, Santa Cruz	stimation for High-Performance Friedlander, University of
TP8a3-3	Embedded Alamouti Sp. and Low Decoding Com Mohanned Sinnokrot, John Georgia Institute of Technol	Barry, Vijay Madisetti,
TP8a3-4	New Soft Stack Decoder Abdellatif Salah, Ghaya Re Ouertani, TELECOM Paris Thomson R&D	kaya Ben-Othman, Rym
TP8a3-5	Multiple Phase Decoder Zhi Quan, Yuriy Zakharov, York	for MIMO Systems Junruo Zhang, University of
TP8a3-6	4x4 Perfect Space-Time Mireille Sarkiss, Ghaya Re Claude Belfiore, Ecole Nata Télécommunications	kaya-Ben Othman, Jean-

Systematic Design of Space-Time Convolutional Codes

Iterative Inter-symbol Interference Canceling Receiver

for Direct Space-Time GF(q) LDPC Modulation

Adam R. Margetts, Nicholas B. Chang, Keith W. Forsythe,

Space-Time Coding with Receive Switch Diversity

Adarsh Narasimhamurthy, Cihan Tepedelenlioglu,

Christophe Rouchy, Hamid Sadjadpour, UCSC

Daniel W. Bliss, MIT Lincoln Laboratory

Arizona State University

TP8a3-7

TP8a3-8

TP8a3-9

Session TP8b1 Computer Arithmetic II

Chair: Alberto Nannarelli 3:30 PM - 5:10 PM Chair: Oscar Gustafsson

- TP8b1-1 A Residue to Binary Converter for the {2n + 2, 2n + 1, 2n} Moduli Set

 Kazeem Alagbe Gbolagade, Delft University of
 Technology/University For Development Studies, Ghana;
 Sorin Dan Cotofana, Delft University of Technology,
- TP8b1-2 Power Dissipation in Division
 Wei Liu, Alberto Nannarelli, Technical University of
 Denmark
- TP8b1-3 Transcedental Functions on a Shift-Enabled Reconfigurable Device: CORDIC as a Case-Study Scott Miller, Mihai Sima, Michael McGuire, University of Victoria
- TP8b1-4 A Decimal Fully Parallel and Pipelined Floating Point Multiplier Ramy Eissa, Amira Mohamed, Rodina Samy, Tarek Eldeeb, Yasmeen Farouk, Mostafa Elkhouly, SilMinds; Hossam Fahmy, Cairo University
- TP8b1-5 Towards Optimal Multiple Constant Multiplication: A Hypergraph Approach
 Oscar Gustafsson, Linkoping University
- TP8b1-6 An Empirical Study on Standard Cell Synhtesis of Elementary Function Look-Up Tables Oscar Gustafsson, Kenny Johansson, Linkoping University
- TP8b1-7 A Rounding Method with Improved Error Tolerance for Division by Convergence

 Inwook Kong, Earl E. Swartzlander, Jr., University of Texas at Austin
- TP8b1-8 Polynomial Multiplication over Finite Fields Using Field Extensions and Interpolation

 Murat Cenk, Cankaya University; Cetin Koc, Oregon

 State University; Ferruh Ozbudak, Middle East Technical
 University
- TP8b1-9 Spectral Modular Arithmetic for Binary Extension Fields Gokay Saldamli, Eczacibasi Embedded Design Center; Cetin Koc, Oregon State University
- TP8b1-10 A Low Power Radix-4 Dual Recoded Integer Squaring Implementation For Use in Design of Application Specific Arithmetic Circuits

 Jason Moore, Student/SMU; Mitchell A. Thornton, David W. Matula, Professor/SMU
- TP8b1-11 High-Speed Parallel CRC Circuits Christopher Kennedy, Arash Reyhani-Masoleh, The University of Western Ontario
- TP8b1-12 Forcing one-sided results in Goldschmdit algorithm Daniel Piso Fernández, Javier Díaz Bruguera, University of Santiago de Compostela

Session TP8b2 Architectures and Implementation

Chair: Oscar Gustafsson 3:30 PM - 5:10 PM

- TP8b2-1 Implementation of a correlator of bipolar sequences and matrix element squaring with application to interference-limited multiple-access systems

 Hossam Falmy, Cairo University; Ayman Elezabi,

 American University in Cairo
- TP8b2-2 Power Estimation Methodology for VLIW Digital Signal Processor

 Mostafa E.A. Ibrahim, Cairo University; Markus Rupp,
 Vienna University of Technology; Hossam Fahmy, Cairo
 University
- TP8b2-3 Filter Designs for a Reconfigurable Photonic Integrated Circuit

 Yujia Wang, John J. Shynk, University of California, Santa Barbara
- TP8b2-4 High Performance On the Fly Reconfigurable MIMO Detector

 Pankaj Bhagawat, Rajballav Dash, Gwan Choi, Texas

 A&M University
- TP8b2-5 Implementation and Complexity Analysis of List Sphere Detector for MIMO-OFDM systems Markus Myllylä, Markku Juntti, Centre for Wireless Communications; Joseph R. Cavallaro, Rice University
- TP8b2-6 The Cube Coefficient Subspace Architecture for Nonlinear Digital Predistortion Matthew Herman, Benjamin Miller, Joel Goodman, MIT Lincoln Laboratory
- TP8b2-7 Sparse FIR filters and its impact on FPGA area usage Sean Patronis, Linda DeBrunner, Florida State University
- TP8b2-8 Implementing Indoor Positioning System via ZigBee Devices
 Yao Zhao, Liang Dong, Western Michigan University;
 Jiang Wang, Bo Hu, Yuzhuo Fu, Shanghai Jiao Tong
 University
- TP8b2-9 Iris Recognition Processing via Parallel Logic in Field Programmable Gate Arrays
 Ryan Rakvic, Bradley Ulis, Randy Broussard, Robert Ives,
 USNA
- TP8b2-10 Dynamically regularized RLS-DCD algorithm and its FPGA design

 Jie Liu, Yuriy Zakharov, Junruo Zhang, University of York
- TP8b2-11 ASIC implementation comparison of SIC and LSD receivers for MIMO-OFDM

 Johanna Ketonen, Markus Myllylä, Markku Juntti, Centre for Wireless Communications, University of Oulu
- TP8b2-12 Optimally Quantized Offset Min-Sum Algorithm for Flexible LDPC Decoder

 Daesun Oh. Keshab K. Parhi, University of Minnesota
- TP8b2-13 A New MIMO Detector Architecture Based on a Forward-Backward Trellis Algorithm Yang Sun, Joseph R. Cavallaro, Rice University

TP8b2-14 Architecture-aware design of a decimation filter based on a dual wordlength multiply-accumulate unit Erik Lindahl, Oscar Gustafsson, Linkoping University

Session TP8b3 Image Analysis for Biomedical Applications

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Chair: Nila	njan Ray	3:30 PM - 5:10 PM
TP8b3-1	An Image enhancement technique i for cancer detection Jinshan Tang, Alcorn State University	n theJPEG domain
TP8b3-2	Real-Time Motion Tracking in MR Jeff Orchard, University of Waterloo; R University of Toronto	
TP8b3-3	Ultrasound Despeckling for Active Segmentation Peter Tay, Western Carolina University	
TP8b3-4	Automatic Blood Cell Classification Based Feature and Bhattacharya Ke Sharmin Nilufar, PhD Student; Nilanjan Professor; Hong Zhang, Professor	ernel
TP8b3-5	Learning Shape Features for Tracki Leukocytes in Intravital Microscop Baidya Nath Saha, University of Alberta Mukherjee, Indian Statistical Institute	ic Experiment
TP8b3-6	Separating Backscatter and Attenua Imagery Using Anisotropic Regular Yongjian Yu, Xiaodong Tao, GE Corpor Feng Lin, GE Corporate - Americas; Mi Bolorforosh, GE Corporate - Americas	rization rate - Americas;
TP8b3-7	Estimation in real-time affinity-bass Haris Vikalo, Arjang Hassibi, Universit Austin	
TP8b3-8	Reduced Rank Formulation for Inci Efficiency in Medical Ultrasound M Beamforming Michael Ellis, William Walker, Univers	Model-Based
TP8b3-9	Joint Maximum Likelihood Estima Hemodynamic Response Function : Negar Bazargani, Aria Nosratinia, Univ Dallas	and Activation
TP8b3-10	A Fast Inverse Consistent Deforma Registration Method Based on Sym Computation Deshan Yang, Hua Li, Daniel Low, Jose El Naga, Washington University in Sain	nmetric Optical Flow eph Deasy, Issam
TP8b3-11	An Automated Three-Dimensional Classification of Emphysema using Kok Liang Tan, Toshiyuki Tanaka, Keio Hidetoshi Nakamura, Tokyo Electric Po Toru Shirahata, Hiroaki Sugiura, Keio	Visualization and Neural Network University; ower Hospital;

Session WA1 Sensor Networks

Chair: John	W. Fisher, III	
WA1-1	Estimating a Random Field in Sensor Networks Using Quantized Spatially Correlate Data and Fusion-center Feedback Aleksandar Dogandzic, Kun Qiu, Iowa State University	
WA1-2	Quantization for Distributed Detection under Link Outages Ying Lin, State University of New York, New Paltz	8:55 AM
WA1-3	Distributed Estimation of Channel Gains in Sensor Networks Sivagnanasundaram Ramanan, John MacLaren Wal Drexel University	9:20 AM
WA1-4	Evaluation of Local Decision Thresholds for Distributed Detection in Wireless Sensor Netwusing Multiobjective Optimization Engin Masazade, Sabanci University; Ramesh Rajagopalan, Florida State University; Pramod K. Varshney, Syracuse University; Gullu Kiziltas Sendu Mehmet Keskinoz, Sabanci University	
	BREAK	10:10 AM
WA1-5	Source Localization using Random Arrays of Sensors under Multipath Fading Georgios Tsivgoulis, Owens Walker III, Murali Tum John McEachen, Naval Postgraduate School	
WA1-6	Distributed Estimation over Fading Channels Using One-bit Quantization Tao Wu, Qi Cheng, Oklahoma State University	10:55 AM
Session V	VA2 Biological Imaging: Acquisit	tion,
	Analysis and Modeling	
Chair: Mich	ael Liebling	
WA2-1	In toto imaging and the Digital Fish Project: Open tools for an imaging based approach to systems biology Sean Megason, Harvard Medical School	8:30 AM
WA2-2	Image processing in mechanics of growing plants Tigran Bacarian, University of California, Irvine	8:55 AM
WA2-3	Automatic Annotation of Patterns in Bioimages Hanchuan Peng, Janelia Farm Research Campus, Howard Hughes Medical Institute	9:20 AM
WA2-4	Multimodality and Multidimensional Microscopy in the Developing Embryonic Hea Michael Liebling University of California Santa Ba	

	BREAK	10:10 AM	WA3b-3		ive OFDM Relay Transmission teless Codes	11:20 AM
WA2-5	Sub-resolution maximum-likelihood localization of fluorescent molecules based on accurate image formation model	10:30 AM an		Gang Wu, of Electro	Wei Lin, Deli Jia, Shaoqian Li, Universi nic Science and Technology of China; Ye Li, Georgia Institute of Technology	ty
WA 2 6	François Aguet, Michael Unser, EPFL (Ecole Polytechnique Fédérale de Lausanne)	10.55 AM	WA3b-4	Zhongshai	based Cooperative Relay Networks in Zhang, University of Alberta; Chintha ra, Univ. of Alberta	11:45 AM
WA2-6	Model based MR spectroscopic imaging Mathews Jacob, Ramin Eslami, University of Roche	10:55 AM ster	WA3b-5		cal SDMA Protocol for 60 GHz	12:10 PM
		11:20 AM M	Millimete	er Wave Communications ia, Samsung Electronics		
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	Cochran, Fulton School of Engineering; Mark Haye	S,	Chair: Ven	u Veeraval	li	
	College of Liberal Arts and Sciences; Matthew Petk The Dial Corporation	us,	WA4-1	Adaptive	Time Reversal Beamforming in	8:30 AM
WA2-8	Signal processing for rapid bacterial detection Vivek Nandakumar, Terry Alford, Department of Electrical Engineering, Jeffrey La Belle, Biodesign	11:45 AM		Yuanwei J	ultipath Communication Networks lin, José M. F. Moura, Nicholas O'Donoi Mellon University	
Session	Institute		WA4-2		tice-size effects in MIMO decoding Studer, Dominik Seethaler, Helmut Bölc.	8:55 AM skei,
Chair: <i>Lut</i>	z Lampe		WA4-3		ne Reversal Techniques for	9:20 AM
WA3a-1	Effects of Imperfections on the Performance of OFDM-based UWB Systems	8:30 AM		Thiagaraj	d MIMO Communication an Sivanadyan, Akbar Sayeed, University - Madison	of
	Juan Montojo, UCSD-ECE and Qualcomm Inc.; La Milstein, UCSD-ECE	urence	WA4-4		domain processing for MIMO	9:45 AM
WA3a-2	Performance of Coded Transmitted Reference Pulse Cluster UWB Systems Zhonghua Liang, Xiaodai Dong, T. Aaron Gulliver, University of Victoria	8:55 AM		Dayu Hua of Illinois;	systems with non-uniform antenna a ng, Vasanthan Raghavan, Ada Poon, Un Venugopal Veeravalli, University of Illii hampaign	iversity
WA3a-3	Receiver Optimization in Frequency-Shifted	9:20 AM		BREAK		10:10 AM
	Reference Ultra-Wideband Systems Zhiguo Lai, Harshit Joshi, Dennis Goeckel, Univers Massachusetts	ity of	WA4-5	Time, Fro	sed Sensing of Wireless Channels in equency, and Space Iz Zaman Bajwa, Akbar Sayeed, Robert N	
WA3a-4	Performance of Concatenated Coded	9:45 AM			z zaman Bajwa, Akbar Sayeea, Robert N of Wisconsin-Madison	ошик,
	IR-UWB Zahra Ahmadian, Lutz Lampe, University of British Columbia		WA4-6	 Broadband SVD and Non-Linear Precoding and Equalisation Applied to Broadband MIMO Channels 		
Session	WA3b OFDMA and Multiple Acce	SS		Waleed Al	l-Hanafy, Andrew Millar, Chi Hieu Ta, St iversity of Strathclyde	ephan
Chair: Chi	ia-Chin Chong		WA4-7		-Fidelity Tradeoff in Transmission	11:20 AM
WA3b-1	Reduced-Feedback Opportunistic Scheduling and Beamforming with Power Allocation for MIMO-OFDMA	10:30 AM		Mahmoud	g Sources over MIMO Fading Chanr Taherzadeh, Kamyar Moshksar, Amir K. University of Waerloo	
Man-On Pun, Princeton Uniersity; Kyeong Jin Kim, Nokia, Inc.; Ronald A. Iltis, Nokia; H. Vincent Poor, Princeton Uniersity			WA4-8	Limited 1	Multi-User and Multi-Cell MIMO based on 11 Limited Feedback in Downlink OFDM Systems Lars Thiele, Malte Schellmann, Thomas Wirth, Volker	
WA3b-2	Impact of Diversity on OFDMA Ranging Jianqiang Zeng, Hlaing Minn, University of Texas a Dallas; Chia-Chin Chong, Fujio Watanabe, DoCom- USA Labs Inc.				l, Fraunhofer Institute for Telecommunic Hertz-Institut	ations,

Session WA5a Architectures for Positioning and Navigation

Chair: Andrew Dempster

WA5a-1 Efficient Signal Acquisition and Tracking for 8:30 AM a Real Time GPS/Galileo Software Receiver Marco Pini, Maurizio Fantino, Istituto Superiore Mario Boella; Fabio Dovis, Politecnico di Torino WA5a-2 An Unambiguous Detector Architecture for 8:55 AM Galileo E5 Signal Acquisition Nagaraj Channarayapatna Shivaramaiah, Andrew Dempster, University of New South Wales WA5a-3 On the Implications of Analog to Digital 9:20 AM Conversion on Variable-Rate Bandpass Sampling **GNSS** Receivers Alper Ucar, Ediz Cetin, Izzet Kale, University of Westminster

WA5a-4 Understanding the GIOVE-B Broadcast 9:45 AM
Codes of the Galileo System
Grace Xingxin Gao, Stanford University; Dennis Akos,
University of Colorado; Todd Walter, Per Enge, Stanford
University

Session WA5b Low Power Methods

Chair: James E. Stine, Jr.

WA5b-1 Analysis of Voltage Overscaled Computer 10:30 AM
Arithmetics in Low Power Signal Processing
Systems
Yang Liu, Tong Zhang, Rensselaer Polytechnic Institute;
Keshab K. Parhi, University of Minnesota

WA5b-2 Low Power Signal Processing Through 10:55 AM Complexity Reduction and Quality-Vdd Tradeoffs
Nilanjan Banerjee, Kaushik Roy, Purdue University

WA5b-3 Reducing Power Dissipation in Pipelined 11:20 AM
Accumulators
Alberto Nannarelli, Technical University of Denmark;
Marco Re, GianCarlo Cardarilli, University of Rome "Tor Vergata"

WA5b-4 Self Modifying Finite Automata (SMFA) 11:45 AM based State Machine Implementation for Lower Energy

Ka-Ming Keung, Akhilesh Tyagi, Iowa State University
Single-ended half-swing low-power SRAM 12:10 PM

WA5b-5 Single-ended half-swing low-power SRAM 12:10 design

Harsha Choday, James E. Stine, Oklahoma State
University

Session WA6a Network Information Theory and Security

Chair: Faramarz Fekri

WA6a-1 Capacity of Ad-Hoc Networks under 8:30 AM
Multipacket Transmission and Reception
Shirish Karande, Zheng Wang, Hamid Sadjadpour,
UCSC; Jose Joaquin Garcia-Luna-Aceves, University of
California, Santa Cruz

WA6a-2 Analysis of Latency in Secure Wireless 8:55 AM
Sensor Networks with Key Predistribution
Ramanan Subramanian, Kevin Chan, Faramarz Fekri,
Georgia Institute of Technology

WA6a-3 Capacity Scaling Laws for Underwater 9:20 AM Networks

Daniel E. Lucani, Muriel Médard, Milica Stojanovic, MIT

WA6a-4 Entropy Vectors and Network Information 9:45 AM
Theory
Babak Hassibi, Sormeh Shadbakht, Caltech

Session WA6b Wireless Network Utility Maximization: Fundamental Limits and Protocols

Chair: Alejandro Ribeiro & Georgios Giannakis

WA6b-1 Delay Analysis of Scheduling Policies in 10:30 AM Wireless Networks (Invited Paper)

Gagan Gupta, Purdue University; Ness Shroff, The Ohio State University

WA6b-2 Optimal Spectrum Allocation in Gaussian 10:55 AM Interference Networks

Hongxia Shen, Hang Zhou, Randall Berry, Michael Honig,
Northwestern University

WA6b-3 Asymptotic Delay Guarantees for Throughput 11:20 AM Optimal Scheduling

Koushik Kar, Rensselaer Polytechnic Institute; Saswati Sarkar, University of Pennsylvnia

WA6b-4 Optimal layered architectures for wireless 11:45 AM networks

Alejandro Ribeiro, Georgios B. Giannakis, University of Minnesota

WA6b-5 Opportunism, Backpressure, and Stochastic Optimization with the Wireless Broadcast Advantage

Michael Neely, Rahul Urgaonkar, USC

12:10 PM

12:10 PM

Session WA7a Speech Recognition and Analysis

Chair: Jerry Gibson

WA7a-1 A Double-Talk Detector Based on 8:30 AM
Generalized Mutual Information for Stereophonic
Acoustic Echo Cancellation in the Presence of
Nonlinearity
Kun Shi, Xiaoli Ma, G. Tong Zhou, Georgia Institute of
Technology

WA7a-2 A Phonetically Switched ADPCM speech 8:55 AM coder

Pravin Kumar Ramadas, Jerry D. Gibson, University of California, Santa Barbara

WA7a-3 A probabilistic principal component analysis 9:20 AM based hidden Markov model for audio-visual speech recognition

Zhanyu Ma, Arne Leijon, Royal Institute of Technology
(KTH)

WA7a-4 Synthesis of Enhanced Audio from Low 9:45 AM
Bitrate Compressed Audio Based on Unit Selection
and Statistical Conversion Methods
Demetrios Cantzos, University of Southern California;
Athanasios Mouchtaris, Foundation for Research and
Technology; Chris Kyriakakis, University of Southern
California

Session WA7b Adaptive Receivers for OFDM and UWB Systems

Chair: Richard Martin

WA7b-1 Adaptive MIMO Channel Shortening with 10:30 AM Post-FEQ Diversity Combining Gokhan Altin, Richard Martin, The Air Force Institute of Technology

WA7b-2 On the Ill Convergence of Blind Equalization 10:55 AM
Algorithms for M-ary PPM with Small Alphabet
Size
Andrew Klein, Xinming Huang, Worcester Polytechnic
Insistute (WPI)

WA7b-3 A Cost Function Level Analysis of Autocorrelation Minimization Based Blind Adaptive Channel Shorteners

Citra Wa Maina, John Walsh, Drexel University

WA7b-4 Adaptive Resource Allocation Within
Three-Stage OFDM Relay Networks
Nasr Eltayeb, S. K. Kassim, Jonathan Chambers,
Loughborough University

WA7b-5 Adaptive Downlink OFDMA Resource 12:10 PM
Allocation
Ian Wong, Freescale Semiconductor; Brian Evans, The
University of Texas at Austin

Session WA8a Network Coding

Chair: Shalinee Kishore

WA8a-1 Robust network coding subgraph construction 8:30 AM under uncertainty

Christopher Chang, Tracey Ho, Michelle Effros,
California Institute of Technology

WA8a-2 Randomized Network Coding in Broadcast Wireless Networks with Fading Edges

Yingda Chen, Shalinee Kishore, Lehigh University

WA8a-3 Two-Way Relaying with Network Coding for 9:20 AM Multiple Orthogonal Channels

Petar Popovski, Aalborg University/Oticon A/S; Toshiaki

Koike-Akino, Vahid Tarokh, Harvard University

WA8a-4 A Study of the Routing Capacity Regions of 9:45 AM Networks

Ali Kakhbod, University of Michigan; Serap A. Savari, S.

M. Sadegh Tabatabaei Yazdi, Texas A&M University

Session WA8b Video Coding

Chair: Lina Karam

WA8b-1 Determining Efficient Bit Stream Extraction 10:30 AM
Paths in H.264/AVC Scalable Video Coding
Dongeun Lee, Yonghee Lee, Heejung Lee, Jonghun Lee,
Heonshik Shin, Seoul National University

WA8b-2 Bitplane Selective Distributed Video Coding 10:55 AM Wei-Jung Chien, Lina Karam, Arizona State University

WA8b-3 Refined Error Concealment for Multiple State 11:20 AM Video Coding over Ad Hoc Networks Yiting Liao, Jerry D. Gibson, University of California, Santa Barbara

WA8b-4 Bitrate allocation for multiple video streams 11:45 AM at competitive equilibria

Mayank Tiwari, Theodore Groves, Pamela Cosman,
University of California, San Diego

WA8b-5 Rate Estimation Via Maximum Likelihood 12:10 PM
Parameter Estimation: Application in Fast ModeSelection within the H.264/AVC
Koohvar Minoo, Truong Nguyen, UCSD

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Bambos, Nicholas	MP8a2-4
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Bar Noy, Amotz	TA6b-3
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Baronkin, Vladimir	MA8b1-13
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Basu, Saurav	
Bauch, Gerhard	TP4-7
Bayesteh, Alireza	
Bazargani, Negar	
Bazerque, Juan-Andres	
Beadle, Ed	
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Bendlin, Ralf	
Benedetto, John	
Bengtsson, Mats	
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Berger, Christian	MA6-7
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Bershad, Neil J	MA7-2
Berthet, Antoine O	
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Bliss, Daniel W		Castro, F
Bliss, Daniel W		Cates, D
Bliss, Daniel W		Cattivelli
Blum, Rick		Cavallar
Blum, Rick		Cavallar
Blum, Rick		Cavallar
Blum, Rick		Cenk, M Cerna, N
Boccardi, Federico Boche, Holger		Cerna, N
Bölcskei, Helmut		Cetin, Ed
Bordin, Jr., Claudio Jose		Cetin, Ed
Bose, Nirmal		Cevher, \
Botros Shenouda, Micha		Chambe
Boufounos, Petros		Chambe
Bougiouklis, Theodoros		Chambe
		Chan, Ke
Boulet, Benoit Bouman, Charles		Chan, To
		Chandra
Boutte, David Bowman, J		Chang, C
Bradley, Jeffrey		Chang, N
Broussard, Randy		Chang, S
Broussard, Randy		Channara
Brudner, Terry		Ullalillala
Bruno, Marcelo G. S		Chao, Je
Buchner, Herbert		Chaudha
Bugallo, Monica F		
Bui, Francis Minhthang.		Chaum,
Bulusu, Nirupama		Chen, Bi
Burg, Andreas		Chen, Ch
Busuioc, Mihai		Chen, Ch
Bychkovsky, Vladimir		Chen, Ch
Bychkovsky, Vladimir		Chen, Jie
Caban, Sebastian		Chen, Rı
Cai, Z. H		Chen, Sh
Caire, Giuseppe		Chen, Ye
Calderbank, Robert		Chen, Yi
Caldwell, James		Cheney,
Calhoun, Vince		Cheng, C
Calhoun, Vince		Cheng, C
Calmettes, Vincent		Cheng, C
Calzolari, Diego		Cheng, S
Candes, Emmanuel		Chien, W
Candes, Emmanuel	TA1b-3	Chivers,
Candido, Renato	MA7-3	Chizikh,
Cannon, Tyrone		Cho, Hyı
Cano, Alfonso		Choday,
Cantzos, Demetrios	WA7a-4	Choi, Gw
Cao, Yi	TP6-8	Choi, Gw
Caramanis, Constantine	TP3b-1	Chong, (
Cardarilli, GianCarlo	WA5b-3	Christen
Carvalho, Paulo Henriqu		Christen
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Cenk, Murat Cerna, Michael	
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Cetin, Ediz	
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Cevher, Volkan	
Chambers, Jonathan	
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Chan, Kevin	
Chan, Tony	
Chandrasekhar, Vikram	
Chang, Christopher	
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Channaravapatna Shivarama	iah. Nagarai
Channarayapatna Shivarama	WA5a-2
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Chaudhary, Muhammad Ha	ıfeez
0. 5	MP8a2-7
Chaum, Edward	MP2-1
Chen, Biao	
Chen, Chun-Yang	
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Chen, Yingda	
Cheney, Margaret	
Chang, Chao	TD002 2
Cheng, Qi Cheng, Qi	IP8a2-3
Cheng, Samuel	
Chien, Wei-Jung	
Chivers, Mark	
Chizikh, Dimitri	
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Choday, Harsha	
Choi, Gwan	
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Chong, Chia-Chin	
Christensen, Mads Græsbø	
Christensen, Mads Græsbø	
Chun, Joohwan	
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Cochran, Douglas	TP8a2-13	Doroslovacki, Milos	MA7-7
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Codreanu, Marian		Dovis, Fabio	WA5a-1
Cohen, Gilad		Du, Lin	
Cordeiro, Pedro Antero Bra		Duarte, Marco	
Cosman, Pamela		Duchâteau, Grégoire	
Cotofana, Sorin Dan		Dufour, Alexandre	
Cousseau, Juan	.MP8a4-12	Edfors, Ove	
Cox, Henry	MA8a1-6	Effros, Michelle	WA8a-1
Cox, Henry		Eissa, Ramy	
Creusere, Charles		Ekrem, Ersen	
Creusere, Charles		El Naqa, Issam	
Crockett, L		El Naqa, Issam	
Culver, R. Lee		Eldeeb, Tarek	TP8b1-4
Cumanan, Kanapathippillai.	MA8a3-4	Elezabi, Ayman	
Dabak, Anand		Elkhouly, Mostafa	
Dabora, Ron		Elliott, Robert	
Daher, Rani	MA1-4	Ellis, Michael	TP8b3-8
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Dash, Debashis		Enge, Per	
Dash, Rajballav	TP8b2-4	Ercegovac, Milos D	MP5-3
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de Lamare, Rodrigo		Esli, Celal	
De Leon, Phillip		Eswaran, Krishnan	
Deasy, Joseph		Eswaran, Krishnan	
Deasy, Joseph		Eswaran, Sharanya	
Debbah, Merouane		Etter, Delores	
DeBrunner, Linda		Evans, Brian	
DeBrunner, Victor		Evans, Brian	
DeBrunner, Victor		Fa, Rui	
Dempster, Andrew		Fa, Rui	
Dey, Sourav		Fahmy, Hossam	
Díaz Bruguera, Javier		Fahmy, Hossam	
Dick, Chris H		Fahmy, Hossam	
Dick, Chris H		Fan, Yijia	
Dietl, Guido		Fantino, Maurizio	
Ding, Ran		Farouk, Yasmeen	
Djuric, Petar M		Fasih, Ahmed	
Do, Thong		Fazel, Maryam	
Dobre, Octavia		Fekri, Faramarz	
Doche, Christophe		Ferrara, Matthew	
Dogandzic, Aleksandar		Ferrara, Matthew	
Donatelli, Jeffrey		Fertig, Louis	
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Dong, Liang		Fettweis, Gerhard P	
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Garcia-Luna-Aceves, Jose	Joaquin WA6a-1
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Garg, Hari K	
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Ghrayeb, Ali	MP8a4-7
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Gilbert, Anna	TA1b-5
Giovanidis, Anastasios	
Girod, Lewis	
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Godrich, Hana	MP1-2
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Goel, Manish	
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Goldsmith, Andrea	TP4-2
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Gudmundson, Erik	
Guillaud, Maxime	
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Gulliver, T. Aaron	
Gunduz, Deniz	
Gunnam, Kiran	
Gunther, Jacob	
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Guthy, Christian	MA8a2-6
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Hagege, Rami	TA8b1-1
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Haleem, Mohamed	
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Hao, J	MA8b1-12
Hardin, Joseph	
Hardouin, Eric	
Harris, David Money	
Hasna, Mazen	
Hassibi, Arjang	
Hassibi, Babak	
Hatzinakos, Dimitrios	
Haupt, Jarvis	
Haupt, Jarvis	
Haustein, Thomas	
Hayes, Mark	
Haykin, Simon	
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He, Shan		Jackson, Charles	
He, Xiang		Jacob, Mathews	
He, Xiang		Jacob, Vivek	
He, Zishu		Jafar, Syed	
Heath, Jr., Robert		Jafar, Syed	
Heath, Jr., Robert		Jaldén, Joakim	
Heath, Jr., Robert		Janneck, Jorn W	
Heath, Jr., Robert		Javidi, Tara	
Hendriks, Ella		Jemmott, Colin	
Hensley, Scott		Jenkins, William	
Herman, Matthew		Jensen, Jesper Rindom	TA8b2-5
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Hermes, Douglas	MA8b1-2	Jensen, Søren Holdt	TP8a2-11
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Honig, Michael		Jin, Yuanwei	
Host-Madsen, Anders		Jin, Yuanwei	
Howard, Stephen		Joham, Michael	
Hsu, Edward		Joham, Michael	
Hsu, Yu-Feng		Johansson, Hakan	
Hu, Bin		Johansson, Kenny	
Hu, Bo		Johansson, Kenny	
Hu, Wen		Johnson, Ben A	
Huang, Chiachi		Johnson, Matt	
Huang, Dayu		Johnson, Jr., C. Richard	
Huang, Howard	TΔ4h-3	Jorswieck, Eduard A	
Huang, Jianguo		Jorswieck, Eduard A	
Huang, Jianguo		Joshi, Harshit	
Huang, Jim		Joyner, Michael	
Huang, Kaibin		Jung, Bang Chul	
Huang, Xinming		Jung, Byung Wook	
Huang, Xinning		Jung, Goochul	
Huang, Yih-Fang		Jungnickel, Volker	
Hucher, Charlotte		Jungnickel, Volker	
Hunger, Raphael		Jungnickel, Volker	
Hunter, Chris		=	
*		Jungnickel, Volker	
Hurtado, Martin		Juntti, Markku	
Hurtado, Martin		Juntti, Markku	
Huttunen, Matti		Kakhbod, Ali	
Ibrahim, Mostafa E.A		Kale, Izzet	
Iltis, Ronald A		Kale, Izzet	
Iltis, Ronald A		Kaliszan, Michal	
Iltis, Ronald A		Kallinger, Markus	
Imbert, Laurent		Kammeyer, Karl-Dirk	
Inkol, Robert		Kammeyer, Karl-Dirk	
Ives, Robert		Kang, Eunmo	
Ives, Robert		Kang, Taehyuk	
lvkovic, Goran	MA8a1-5	Kaprio, Jaakko	TP2-7

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Kar, Koushik	WA6b-3
Kar, Soummya	
Kar, Soummya	
Karakayali, Kemal	MA4-8
Karam, Lina	WA8b-2
Karande, Shirish	WA6a-1
Karia, Ketan	
Karnowski, Thomas	MP2-1
Kassim, S. K	WA7b-4
Kaufman, Brett	TP5b-1
Kayran, Ahmet Hamdi	MA8b3-4
Kellermann, Walter	MP6-1
Kelley, Brian	
Kennedy, Christopher	TP8b1-11
Kennell, Lauren	
Keskinoz, Mehmet	
Ketonen, Johanna	TP8b2-11
Ketseoglou, Thomas	MP8a4-11
Keung, Ka-Ming	WA5b-4
Khal, Rami	
Khan, Usman	TA6b-2
Khandani, Amir K	MP4-6
Khandani, Amir K	WA4-7
Khandelwal, Vineet	
Kim, Hyunchul	
Kim, II Han	
Kim, Jungtai	
Kim, Kyeong Jin	WA3b-1
Kim, Kyeong Jin	MP8a4-2
Kim, Kyeongyeon	
Kim, Kyungchul	
Kim, Young-Han	
Kinoshita, Keisuke	MP6-3
Kirovski, Darko	
Kishore, Shalinee	WA8a-2
Kiziltas Sendur, Gullu	WA1-4
Klein, Andrew	WA7b-2
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Klenner, Peter	MP8a4-5
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Koc, Cetin	
Kocian, Alexander	
Koike-Akino, Toshiaki	
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Kolmonen, Veli-Matti	
Kong, Inwook	
Korkmaz, Sayit	
Koutsoukos, Xenofon	
Kovacevic, Jelena	
Kraft, Robert A	
Kragh, Frank	
Kramer, Gerhard	
Kreidl. O. Patrick	TP1a-3

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3	Krim, Hamid	IP8a2-1/
2	Krishna, Gajanana	
	Krishna, Ranaji	
3	Krishna, Ranaji	
2	Krishnamachari, Rajesh	
	Kritchman, Shira	TP8a2-7
3	Krolik, Jeffrey	MP1-6
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1	Kuhn, Marc	
l	Kurosaki, Masayuki	TA5b-5
1	Kushwaha, Manish	
	Kyriakakis, Chris	
)	Kyriakides, Ioannis	
ĺ	La Belle, Jeffrey	WA2-8
3	La Cour, Brian	
1	La Porta, Thomas	
i I	Labeau, Fabrice	TΔ8h3-5
	Labeau, Fabrice	
1	Labeau, Fabrice	
}	Lai, Hung	
2	Lai, Hung	
3	Lai, Lifeng	
7	Lai, Zhiguo	
7		
ĺ	Laine, Andrew	MDO C
	Laine, Andrew	
)	Lakkundi, Ravi	IAODZ-4
,	Lambotharan, Sangarapillai	
	Lambotharan, Sangarapillai	
2	Lampe, Lutz	
7	Langhammer, Martin	
	Larsen, Torben	
1	Larsson, Erik G	
3	Lashkari, Danial	
1	Latva-aho, Matti	
2	Latva-aho, Matti	
1	Laurberg, Hans	
3	Layec, Patricia	
	Lebrun, Jerome	
5	Lechner, Gottfried	
)	Ledeczi, Akos	
3	Lee, Dongeun	WA8b-1
6	Lee, Heejung	WA8b-1
3	Lee, Heichang	
5	Lee, Jonghun	
7	Lee, Jungwoo	
7	Lee, Noah	
7	Lee, Noah	
	Lee, Seok-Jun	
3	Lee, Yonghee	
1	Lee, Yuanxing	
3	Leijon, Arne	
)	Leinonen, Jouko	
	Lemonds, Carl	
3	Lentmaier, Michael	.MP8a3-10

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Li, Hongbin			
Li, Hongbin		Mandyam, Giridhar	
Li, Hua		Manjunath, Bhavana	
Li, Jian		Marano, Stefano	
Li, Jian		Marechal, Nick	
Li, Jian		Margetts, Adam R	
Li, Leilei		Maric, Ivana	
Li, Shaoqian		Martin, Richard	
Li, Sheng		Masazade, Engin	
Li, Wei		Matta, Sandeep	
Li, Ye (Geoffrey)		Matta, Vincenzo	
Liang, Zhonghua	WA3a-2	Matula, David W	
Liao, Yiting	WA8b-3	Matz, Gerald	MA8b1-4
Liebling, Michael		Matz, Gerald	MA8b1-7
Lin, Feng	TP8b3-6	Maurer, Johannes	MA8b1-4
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Lindblom, Johannes		McGuire, Michael	
Liu, Jie		Mecca, Vito	
Liu, K. J. Ray		Médard, Muriel	
Liu, Keqin		Medda, Alessio	
Liu, Kuang-Hung		Megason, Sean	
Liu, Li		Mehlführer, Christian	
Liu, Mingyan		Mehlführer, Christian	
Liu, Qijia		Mertins, Alfred	
Liu, Ted CK		Mertins, Alfred	
Liu, Wei		Michel, Thierry	
Liu, Wei		Millar, Andrew	
Liu, Xiaoming		Miller, Benjamin	
Liu, Yang		Miller, Benjamin	
Liu, Yuhong		Miller, Ian D	
Lönnqvist, Jouko		Miller, Scott	
Love, David		Milstein, Laurence	
Love, David		Minn, Hlaing	
Love, David		Minoo, Koohyar	
Low, Daniel		Misra, Archan	
Low, Daniel		Mitra, Sunanda	
Lu, Wu-Sheng		Miyoshi, Masato	
Lu, Xiaojia		Mohamed, Amira	
Lucani, Daniel E		Mohsenin, Tinoosh	
Luneau, Jean-Marc	TA8b1-7	Molisch, Andreas	
Lutz, David		Montojo, Juan	
Ma, Rui		Moon, Todd	
Ma, Xiaoli	WA7a-1	Moon, Todd	TA8b1-2
Ma, Xiaoli	MP8a3-5	Moore, Jason	
Ma, Zhanyu		Moran, Bill	MA8b2-5
Madisetti, Vijay		Moran, Bill	TP8a2-12
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Mailaender, Laurence	MA4-8	Morrell, Darryl	
Majjigi, Vinay		Moses, Randolph	
Malcolm, William		Moshksar, Kamyar	
Malek, Alan John		Mossberg, Magnus	
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Mouchtaris, Athanasios		Nowak, I
Moura, José M. F		Nutter, B
Moura, José M. F		Nyamwe
Moura, José M. F	IA6b-2	Ober, Ra
Moura, José M. F		O'Boyle,
Mroueh, Lina		Ochi, Hir
Mueller, Ralf		O'Donou
Mukherjee, Dipti Prasad		O'Donou
Munson, David		Oh, Daes
Munson, David		Oh, Song
Murillo, Sergio		Olivo-Ma
Murphy, Robert		Onggosa
Murray, Victor		Oppenhe
Murray, Victor		Orchard,
Mylaraswamy, Dinkar	TA6b-1	Otterster
Myllylä, Markus	TP8b2-11	Ouertani
Myllylä, Markus		Ozbudak
Nadler, Boaz	TP8a2-7	Ozdemir,
Nagao, Yuhei	TA5b-5	Pace, Ph
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Nakamura, Hidetoshi		Pagliari,
Nakatani, Tomohiro	MP6-3	Pal, R
Namgoong, Won		Panahi, I
Namin, Frank		Panetta,
Nandakumar, Vivek		Papadog
Nannarelli, Alberto		Papalexi
Nannarelli, Alberto		Papandr
Narasimha, Rajan		•
Narasimhamurthy, Adarsh		Papandr
Nascimento, Vitor H		
Naylor, Patrick		Parhi, Ke
Nazer, Bobak		Parhi, Ke
Needell, Deanna		Parhi, Ke
Neely, Michael		Parhi, Ke
Negro, Francesco		Park, Se
Nehorai, Arye		Parker, P
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Ngai, Edith		Parraga,
Nguyen, Nam		Parrilo, F
Nguyen, Truong		Pathak, I
Nielsen, Jesper Kjær	TA8h2-5	Patronis
Nilufar, Sharmin		Pattichis
Niu, Ruixin		Pattichis
Niu, Tingting		Pattichis
Niu, Tingting		Paulraj, I
Niu, Xiaofeng		Paulraj, I
Noel, Camille		Pendse,
Nosratinia, Aria		Peng, Ha
Nosratinia, Aria		Peng, Yo
		Pennane
Nosratinia, Aria		Pertilä, F
Nossek, Josef		Peters, S
Novak, Clemens		Petkus, I
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Oh, Songhwai	TP7a-3
Olivo-Marin, Jean-Christo	pheMA2-2
Onggosanusi, Eko	MP4-3
Oppenheim, Alan	
Orchard, Jeff	
Ottersten, Björn	
Ouertani, Rym	
Ozbudak, Ferruh	
Ozdemir, Onur	
Pace, Phillip	
Pace, Phillip	
Padfield, Dirk	
Pagliari, Roberto	
Pal, R	
Panahi, Issa	
Panetta, Karen	
Papadogiannis, Agisilaos .	
Papalexidis, Nikolaos	
Papandreou-Suppappola,	ΝιΓοαι-υ Δntonia
	TA7b-2
Papandreou-Suppappola,	Antonia
Parhi, Keshab K	MA1-6
Parhi, Keshab K	
Parhi, Keshab K	
Parhi, Keshab K	
Park, Seung Young	
Parker, Peter	
Parlour, David B	
Parraga, Grace	
Parrilo, Pablo	
Pathak, Nishank	
Patronis, Sean	
Pattichis, Marios	
Pattichis, Marios	
Pattichis, Marios	MP2-8
Paulraj, Arogyaswami	
Paulraj, Arogyaswami	
Pendse, Ravi	
Peng, Hanchuan	
Peng, Yong	
Pennanen, Harri	
Pertilä, Pasi	MA8a1-7
Peters, Steven	TP4-1
Petkus. Matthew	

NAME	SESSION	NAME	SESSION
Petropulu, Athina		Rao, Bhaskar	
Petropulu, Athina		Rao, Raghavendra	
Phillips, Braden		Rao, Raghu	
Piantanida, Pablo	MA8a2-3	Rasool, Shahzada Basha	
Pinckney, Nathaniel		Ravindran, Sujit	
Pini, Marco		Ray, Nilanjan	
Piso Fernández, Daniel		Ray, Priyadip	
Pitts, Jason		Re, Marco	WA5b-3
Pizzocaro, Diego	TA6b-3	Recht, Ben	
Polprasert, Chantri	MA8b1-5	Recht, Benjamin	
Poon, Ada	WA4-4	Rekaya-Ben Othman, Gh	ayaTP8a3-6
Poonnen, Thomas	MP7-8	Rekaya-Ben Othman, Gh	
Poor, H. Vincent	MA3a-4	Ren, Jing-Fei	TA5b-3
Poor, H. Vincent	MA3b-2	Reyhani-Masoleh, Arash	TP8b1-11
Poor, H. Vincent	MA3a-2	Rezk, M	TP8a3-1
Poor, H. Vincent	WA3b-1	Rezk, M	TP8a3-2
Poor, H. Vincent	TP4-2	Rhadakrishnan, Chandra	shekar MA7-8
Poor, H. Vincent	MA4-2	Ribeiro, Alejandro	WA6b-4
Poor, H. Vincent	MA6-5	Rice, G	MA5-4
Popovski, Petar	WA8a-3	Richard, Cédric	MA7-5
Posse, Stefan	TP2-8	Richter, Andreas	TP8a2-15
Potter, Lee	MP7-5	Riihonen, Taneli	MP8a4-12
Poutanen, Veli-Pekka	TP2-7	Ritcey, James	MA8b1-5
Prabhakaran, Vinod	MP3-1	Rittscher, Jens	MA2-1
Prabhakaran, Vinod		Roberts, William	MP1-1
Prasad, Narayan	MA8a2-10	Robertson, Clark	
Preece, Alun	TA6b-3	Robertson, Clark	MA8b1-2
Preyss, Nicholas	TA5b-1	Robey, Frank	MP1-6
Price, Jeffrey		Romberg, Justin	
Pugh, Matthew		Rost, Peter	MP8a2-3
Pun, Man-On		Roth, Christoph	
Punchihewa, Anjana		Rouchy, Christophe	
Qasaymeh, Mahmoud		Rowaihy, Hosam	
Qiu, Kun		Roy, Kaushik	
Quan, Zhi		Rupp, Markus	
Qureshi, Fahad		Rupp, Markus	
Qureshi, Tariq		Rupp, Markus	
Rabiei, Payam		Russell, Stephen	
Raghavan, Vasanthan		Russell, Stephen	
Raghavan, Vasanthan		Saadani, Ahmed	
Raissi Dehkordi, Vahid		Saadani, Ahmed	
Rajagopal, Ram		Sabharwal, Ashutosh	
Rajagopalan, Ramesh		Sabharwal, Ashutosh	
Rajan, Dinesh		Sabharwal, Ashutosh	
Rajan, Sreeraman		Sadjadpour, Hamid	
Rakvic, Ryan		Sadjadpour, Hamid	
Rakvic, Ryan		Sadjadpour, Hamid	
Ram, Sripad		Saha, Baidya Nath	
Ramadas, Pravin Kumar		Sahai, Anant	
Ramalingam, Senthil Pra		Sahin, Onur	
Ramanan, Sivagnanasun		Sai, Baiko	
Ramchandran, Kannan		Salah, Abdellatif	
Rangarajan, Aravind		Saldamli, Gokay	
Ranji, Mahsa		Saleh, Hani	
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Saligrama, Venkatesh		Sheikh, Zakaullah	
Salmi, Jussi	TP8a2-15	Shen, Cong	TA8b4-10
Salonen, Oili		Shen, Hongxia	WA6b-2
Salvo Rossi, PierLuigi	MA4-7	Shenoy, Shakti Prasad	MP8a3-11
Samy, Rodina	TP8b1-4	Shi, Kun	WA7a-1
Santhanam, Balu	MA8b1-10	Shimamura, Tetsuya	TP8a1-3
Sapru, Ashtosh		Shin, Heonshik	WA8b-1
Saravanan, Ponnusamy	MP2-4	Shirahata, Toru	TP8b3-11
Sarkar, Saswati	WA6b-3	Shirani-Mehr, Hooman	MA4-6
Sarkiss, Mireille	TP8a3-6	Shroff, Ness	WA6b-1
Satyan, Ramdas	TA8b3-3	Shynk, John J	MA7-4
Sauer, Ken	TA2b-2	Shynk, John J	
Saul, Andreas	TP5b-5	Shynk, John J	TP8b2-3
Savari, Serap A	WA8a-4	Silva, Magno T. M	MA7-3
Sayed, Ali H	MA7-6	Sima, Mihai	TP8b1-3
Sayeed, Akbar	WA4-3	Simeone, Osvaldo	MA3a-2
Sayeed, Akbar		Simeone, Osvaldo	MA4-2
Sayeed, Akbar	MP4-7	Singh Anand, Sarabjot	MP2-4
Scaglione, Anna	TP4-4	Sinnokrot, Mohanned	TP8a3-3
Scaglione, Anna		Siracusa, Michael	
Scaglione, Anna		Sirkeci-Mergen, Birsen	TP3b-3
Scheets, George	MP8a2-5	Sivanadyan, Thiagarajan	WA4-3
Schellmann, Malte		Skowron, Marek	MP8a3-2
Schellmann, Malte	MP8a4-10	Slock, Dirk	MP8a3-11
Schellmann, Malte		Smith, R Theodore	MP2-5
Schellmann, Malte	WA4-8	Smith, R Theodore	MP2-6
Schmidt, David A	MA8a2-2	Snoussi, Hichem	MA7-5
Schmidt, Mikkel N	TP8a2-11	Solak, Sedar Burak	TA8b3-3
Schmitt, Harry	TP7b-5	Soliz, Peter	TP2-8
Schniter, Philip	MP7-5	Soliz, Peter	MP2-7
Scholtz, Robert	MA8b1-9	Soliz, Peter	MP2-8
Schroeder, Jim	TP8a2-12	Somekh, Oren	MA3a-2
Schulz, Egon	MP8a4-13	Somekh, Oren	MA4-2
Searle, Stephen		Soong, Anthony C.K	MP4-8
Seethaler, Dominik	WA4-2	Spangenberg, Mariana	TA7b-3
Sehr, Armin	MP6-1	Spasojevic, Predrag	MA8a1-5
Seidel, Peter-Michael	MP5-4	Spors, Sascha	MP6-8
Seker, S. Serhat	MA8b3-4	Sridharan, Sriram	MP3-6
Senol, Habib	MP8a1-3	Srivastava, Anuj	MP7-4
Seskar, Ivan		Srivastava, Maheshchandr	ra TA8b2-7
Sethares, William	TA8b1-8	Srivastava, Mani	TA6b-1
Seyed-Bolorforosh, Mirsa		Staelin, David H	
Sezgin, Aydin		Stanczak, Slawomir	
Sezgin, Aydin	TA8b4-7	Standertskjöld-Norde	nstam, Carl-
Sezgin, Aydin	TA3b-2	Gustav	
Sfar, Sana		Staruch, Robert	
Shadbakht, Sormeh	WA6a-4	Stein, Brian	
Shah, Nitesh	TP7b-5	Stewart, R. W	
Shamai, Shlomo	MA3a-2	Stiller, Peter	
Shamai, Shlomo	MA4-2	Stine, James E	
Shanbhag, Naresh	TP5a-1	Stites, Matthew	
Shankar, M. R. Bhavani	TP5b-2	Stoica, Petre	
Sharma, Pankaj		Stoica, Petre	
Sharma, Vimal	MA8a3-4	Stoica, Petre	MA8a1-3

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Sheikh, Zakaullah	
Shen, Cong	
Shen, Hongxia	
Shenoy, Shakti Prasad	
Shi, Kun	
Shimamura, Tetsuya	
Shin, Heonshik	WA8b-1
Shirahata, Toru	
Shirani-Mehr, Hooman	
Shroff, Ness	
Shynk, John J	MA7-4
Shynk, John J	MA8a3-2
Shynk, John J	
Silva, Magno T. M	
Sima, Mihai	
Simeone, Osvaldo	
Simeone, Osvaldo	
Singh Anand, Sarabjot	
Sinnokrot, Mohanned	
Siracusa, Michael	
Sirkeci-Mergen, Birsen	
Sivanadyan, Thiagarajan	
Skowron, Marek	
Slock, Dirk	
Smith, R Theodore	
Smith, R Theodore	
Snoussi, Hichem	
Solak, Sedar Burak	
Soliz, Peter	
Soliz, Peter	
Soliz, Peter	
Somekh, Oren	
Somekh, Oren	
Soong, Anthony C.K	MP4-8
Spangenberg, Mariana	
Spasojevic, Predrag	MΔ8a1-5
Spors, Sascha	
Sridharan, Sriram	
Srivastava, Anuj	
Srivastava, Maheshchandr	
Srivastava, Mani	
Staelin, David H	
Stanczak, Slawomir	
Standertskjöld-Norde	netam Carl
Gustav	
Staruch, Robert	TP8h3-2
Stein, Brian	
Stewart, R. W	
Stiller, Peter	
Stine, James E.	WA5h-5
Stites, Matthew	TA8h1-2
Stoica, Petre	
Stoica, Petre	
	ΩΛΝΙ 2_1_ΩΛΝΙ

Stoica, Petre MA8b3-7 Thomas, Nick MA2-1 Stouder, Christoph WA6a-3 Thompson, Paul TP2-4 Studer, Christoph TA5b-1 Thompson, Paul TP2-7 Studer, Christoph TA5b-1 Thornton, Mitchell A TP8b1-10 Studer, Christoph TA5b-1 Thornton, Mitchell A TP8b1-10 Studer, Christoph MA7-4 Tisserand, Arnaud MP5-2 Su, Welian MP8a1-4 Tivari, Mayank WA8b-4 Subramanian, Ramanan WA6a-2 Tivari, Mayank WA8b-4 Sul, Jing TP5-3 Tivari, Mayank WA8b-4 Sun, Yan TP5-3 Topa, Arthur TP2-4 Sun, Yan TP5-3 Tomasin, Stefano TP4-8 Sun, Yan TP5-3 Tomasin, Stefano TP4-8 Sun, Yan TP5-3 Tran, Anh MA5-6 Sun, Yan TP8b-13 Tran, Anh MA5-6 Supatto, Willy MA2-5 Tran, Anh MA5-6 Swartzlander, Jr., Earl E MP5-1 Tran, Trac	NAME	SESSION	NAME	SESSION
Studer, Christoph WA4-2 Thompson, Paul TP2-7 Sturm, Bob L MA7-4 Thornton, Mitchell A TP8b1-10 Sturm, Bob L MA7-4 Tisserand, Arnaud MP5-2 Su, Welian MP8a1-4 Tisserand, Arnaud MP5-2 Su, Welian MP8a1-4 Tivari, Mayank WA8b-4 Sugiura, Hiroaki TP8b3-31 Toga, Arthur TP2-7 Sui, Jing TP2-5 Toga, Arthur TP2-7 Sun, Hongbin TP5a-3 Toga, Arthur TP2-7 Sun, Yang TP5b-3 Tourneret, Jean-Yves MA7-2 Sun, Yang TP8b2-13 Tourneret, Jean-Yves MA7-2 Sun, Yang TP3-3 Tourneret, Jean-Yves MA7-2 Sun, Yang TA5b-3 Tran, Ann MA5-6 Sun, Yang TA5b-3 Tran, Ann MA5-6 Sunyato, Willy MA2-5 Tran, Trac MA8b3-15 Superiori, Luca TA8b-4 Tran, Trac MA8b3-15 Swartzlander, Jr., Earl E MP5-5 Trach, Trac				
Studer, Christoph TA5b-1 Thornton, Mitchell A TP8b1-10 Sturm, Bob L MA7-4 Tisserand, Armaud MP5-2 Su, Welian MP8a1-4 Tiwari, Mayank WA8b-4 Subramanian, Ramanan WA6a-2 Tivari, Mayank WA8b-4 Subramanian, Ramanan WA6a-2 Tionin, Kenneth MP2-1 Sui, Jing TP5-3 Toga, Arthur TP2-4 Sun, Yan TP1b-2 Toga, Arthur TP2-4 Sun, Yan TP5b-3 Tomasin, Stefano TP4-8 Sun, Yang TP8b2-13 Tourneret, Jean-Yves MA7-2 Sun, Yang TP8b2-13 Tourneret, Jean-Yves MA7-2 Sun, Yang TP8b-3 Tran, Anh MA5-6 Supatto, Willy MA2-5 Tran, Anh MA5-6 Supatto, Willy MA2-5 Tran, Anh MA80-15 Swartzlander, Jr., Earl E MP5-5 Tropp, Joel TA1b-2 Swartzlander, Jr., Earl E MP8-5 Tropp, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Trivo				
Sturm, Bob L MA7-4 Tisserand, Arnaud MP5-2 Su, Welian MP8a1-4 Tiwari, Mayank WA8b-4 Subramanian, Ramanan WA6a-2 Tobin, Kenneth MP2-1 Sugiura, Hiroaki TP8b3-11 Toga, Arthur TP2-7 Sun, Hongbin TP3-3 Toga, Arthur TP2-7 Sun, Yang TP8b2-13 Tourneret, Jean-Yves MA7-2 Sun, Yang TP8b2-13 Tourneret, Jean-Yves TA7b-3 Sun, Yang TP8b3-13 Tresch, Roland MA8a-15 Swartzlander, Jr., Earl E MP5-5 Tresch, Roland MA8a-2-5 Swartzlander, Jr., Earl E <td></td> <td></td> <td></td> <td></td>				
Su, Welian MP8a1-4 Tiwari, Mayank WA8b-4 Subramanian, Ramanan WA6a-2 Tobin, Kenneth MP2-1 Sugiura, Hiroaki TP8b3-11 Toga, Arthur TP2-7 Sui, Jing TP2-5 Toga, Arthur TP2-7 Sun, Hongbin TP3-3 Tomasin, Stefano TP4-8 Sun, Yang TP8b2-13 Tourneret, Jean-Yves MA7-2 Sun, Yang TA5b-3 Tran, Anh MA6-6 Supatto, Willy MA2-5 Tran, Anh MA6-6 Supatto, Willy MA2-5 Tran, Trac MA8b3-15 Swardzlander, Jr., Earl E MP5-5 Tran, Trac MA8b3-15 Swartzlander, Jr., Earl E MP5-5 Tropp, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Trueblood, Tom TA7b-2 Syafei, Wahyul Amien TA5b-5 Trueblood, Tom TA7b-2 Ta, Chi Hieu WA4-6 Tsivgoulis, Georgios WA1-5 Ta, Minh TP8-3 Tumala, Murali MA9-7 Takahashi, Ryuhei MA8a-6 Tsivg				
Subramanian, Ramanan				
Sugiura, Hiroaki TP8b3-11 Toga, Arthur TP2-4 Sun, Hongbin TP5-3 Toga, Arthur TP2-4 Sun, Yan TP1b-2 Tomasin, Stefano TP4-8 Sun, Yan TP1b-2 Tourneret, Jean-Yves MA7-2 Sun, Yang TA5b-3 Tran, Anh MA5-6 Supatto, Willy MA2-5 Tran, Trac MA8b3-11 Swartzlander, Jr., Earl E MP5-5 Tropp, Joel TA1b-3 Swartzlander, Jr., Earl E MP5-5 Tropp, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Tropp, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Tropp, Joel TA1b-2 Ta, Chi Hieu WA4-6 Tropp, Joel TA1b-2 Ta, Chi Hieu WA4-6 Truong, Dean MA5-6 Ta, Chi Hieu WA4-6 Truong, Dean MA5-6 Ta, Chi Hieu WA4-6 Truong, Dean MA5-6 Ta, Chi Hieu WA4-7 Tumala, Murali MA9-15 Takabasabi, Ryuhei MA8a-6 Tumala, Murali <t< td=""><td></td><td></td><td></td><td></td></t<>				
Sui, Jing TP2-5 Toga, Arthur TP2-7 Sun, Hongbin TP5-3 Tomasin, Stefano TP4-8 Sun, Yang TP8b-13 Tourneret, Jean-Yves MA7-2 Sun, Yang TP8b-13 Tourneret, Jean-Yves TA7b-3 Sun, Yang TA5b-3 Tran, Anh MA8-6 Supartori, Luca TA8b3-4 Tran, Trac MA8b3-15 Swarry, Raghava N TP3a-3 Tresch, Roland MA82-5 Swartzlander, Jr., Earl E MP5-5 Tropp, Joel TA1b-2 Swartzlander, Jr., Earl E TP8b-1-7 Trueblood, Tom TA7b-2 Syafei, Wahyul Amien TA5b-5 Tropp, Joel TA1b-2 Tyan, Huan TA5b-5 Trueblood, Tom TA7b-2 Syafei, Wahyul Amien TA5b-5 Trueblood, Tom TA7b-2 Tyagi, Walii Gean Trueblood, Tom TA7b-2 Tyagi, Walii TW85a-1 Trueblood, Tom TA7b-2 Tyagi, Walii TW85a-1 Tummala, Murali WA8-5 Tyalababaei Yazdi, S. M. Sadegh Turmal				
Sun, Hongbin TP5a-3 Tomasin, Stefano TP4-8 Sun, Yan TP1b-2 Tourneret, Jean-Yves MA7-2 Sun, Yang TA5b-3 Tourneret, Jean-Yves TA7b-3 Sun, Yang TA5b-3 Tourneret, Jean-Yves TA7b-3 Supatto, Willy MA2-5 Tourneret, Jean-Yves TA7b-3 Supatto, Willy MA2-5 Tran, Anh MA8b3-11 Swartzlander, Jr., Earl E MP5-5 Tran, Trac MA8b3-15 Swartzlander, Jr., Earl E MP5-5 Tropp, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Troep, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Troep, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Trueblood, Tom TA7b-2 Syafei, Wahyul Amien TA5b-5 Trueglood, Tom TA7b-2 Syafei, Wahyul Amien TA8b-4 Trueglood, Tom TA7b-2 Syafei, Wahyul Amien TA8b-4 Trueglood, Tom TA7b-2 Takekawa, Hideki TP81-4 Trueglood, Tom TA9-4 Takey				
Sun, Yan TP1b-2 Tourneret, Jean-Yves MA7-2 Sun, Yang TP8b2-13 Tran, Anh. MA5-6 Supatto, Willy MA2-5 Tran, Anh. MA85-1 Supatro, Willy MA2-5 Tran, Trac MA8b3-15 Swartzlander, Ur., Earl E MP5-5 Troph, Joel TA1b-2 Swartzlander, Jr., Earl E TP8b1-7 Trueblood, Tom TA7b-5 Syafei, Wahyul Amien TA5b-5 Tropp, Joel TA1b-2 Yyafei, Wahyul Amien TA5b-5 Trueblood, Tom TA7b-2 Yyafei, Wahyul Amien TA5b-5 Truolong, Dean MA6-6 Ta, Chi Hieu WA4-6 Trueblood, Tom TA7b-2 Tyafei, Wahyul Amien TA5b-5 Truolong, Dean MA6-5 Ta, Chi Hieu WA4-6 Trueblood, Tom TA7b-2 Tyafei, Wahyul Amien TA5b-5 Truolong, Dean MA6-5 Ta, Chi Hieu WA4-6 Trueblood, Tom TA7b-2 Takbahashi, Ryuhei MA8a-3 Turmala, Murali WA1-5 Tan, Dimitri MP5-4 </td <td></td> <td></td> <td></td> <td></td>				
Sun, Yang	, ,			
Sun, Yang. TA5b-3 Tran, Anh. MA6-6 Supartot, Willy. MA2-5 Tran, Trac MA8b3-15 Swarny, Raghava N. TP3-3 Tresch, Roland MA8b3-15 Swartzlander, Jr., Earl E. MP5-5 Tropp, Joel TA1b-2 Swartzlander, Jr., Earl E. TP8b1-7 Trueblood, Tom TA7b-2 Syafei, Wahyul Amien TA5b-5 Tropp, Joel MA6-6 Ta, Chi Hieu WA4-6 Trougn, Dean. MA5-6 Ta, Chi Hieu WA4-6 Trougn, Dean. MA6-6 Ta, Chi Hieu WA4-6 Trougn, Dean. MA6-6 Ta, Chi Hieu WA4-7 Turundla, Murali WA1-5 Takabashi, Ryuhei MA8a-4 Turumala, Murali WA1-5 Takakasa, Hideki TP8a1-3 Ubolthip Setha				
Supatto, Willy MA2-5 Tran, Trac MA8b3-11 Superiori, Luca TA8b3-4 Tran, Trac MA8b3-15 Swartzlander, Jr., Earl E MP5-5 Troph, Joel TA7b-2 Swartzlander, Jr., Earl E TP8b1-7 Trueblood, Tom TA7b-2 Syafei, Wahyul Amien TA5b-5 Trueblood, Tom TA7b-2 Ta, Chi Hieu WA4-6 Tsivgoulis, Georgios WA1-5 Ta, Minh TP8a1-4 Turuong, Dean MA5-6 Tankabashi, Ryuhei MA8-4 Turuong, Dean MA5-6 Takeakashi, Ryuhei MA8-3-4 Turuong, Dean MA6-7 Tankahashi, Ryuhei MA8-3-4 Uninienti, Daniela MP3-7 Tan, Lieu Takea Turuong, Dean<				
Superiori, Luca	. •			
Swamy, Raghava N. TP3a-3 Tresch, Roland MA8a2-5 Swartzlander, Jr., Earl E. MP5-5 Tropp, Joel TA1b-2 Syafei, Wahyul Amien TA5b-5 Trueblood, Tom TA7b-2 Ta, Chi Hieu WA4-6 Tsivgoulis, Georgios WA1-5 Ta, Minh TP8a1-4 Tufvesson, Fredrik MA4-7 Tabatabaei Yazdi, S. M. Sadegh Tufvesson, Fredrik MA4-7 Taherzadeh, Mahmoud WA4-7 Tummala, Murali WA1-5 Takahashi, Ryuhei MA8a3-6 Tummala, Murali MP8a1-6 Takekawa, Hideki TP81-3 Uoar, Alper MA5-1 Tan, Dimitri MP5-4 Ubolthip Sethakaset, U MA81-12 Tan, Kok Liang TP8b3-11 Ucar, Alper WA5b-4 Tan, Xing MP1-1 Uran, Alper WA5a-3 Tan, Sing MP8-1-1 Uran, Alper WA5a-3 Tan, Cok Liang TP8b3-1 Ulukus, Sennur MP3-2 Tando, Xiaodong TP8b3-1 Unnikrishnan, Jayakrishnan MA3b-3 Taveres, Macos B.S. <				
Swartzlander, Jr., Earl E. MP5-5 Tropp, Joel TA1b-2 Swartzlander, Jr., Earl E. TP8b1-7 Trueblood, Tom TA7b-2 Syafei, Wahyul Amien TA5b-5 Truong, Dean MA6-6 Ta, Chi Hieu WA4-6 Tsivgoulis, Georgios. WA1-5 Ta, Minh TP8a1-4 Tufvesson, Fredrik. MA4-7 Tabatabaei Yazdi, S. M. Sadegh Tummala, Murali WA4-7 Tahakabashi, Ryuhei MA8a3-6 Tummala, Murali MP3-7 Takahashi, Ryuhei MA8a3-6 Tummala, Murali MP3-7 Takakawa, Hideki TP8a1-3 Tuninetti, Daniela MP3-7 Tan, Dimitri MP5-4 Ucar, Alper MA5b-4 Ucar, Alper MA5-3 Ucar, Alper MA5-3 Usar, Alper MA5-3 Ulikus, Sennur MP3-2 Unnikrishnan, Jayakrishnan MA3-3 Unnikrishnan, Jayakrishnan MA3-3 Tary Chyin, Yahid WA8a-3 Unnikrishnan, Jayakrishnan MA5-8 Tayen, Nizar TP8b3-6 Upperman, Gary MA5-8 Tayem, Ni	•			
Swartzlander, Jr., Earl E				
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