SS&C Conf. Corp. P.O. Box 8236 Monterey, CA 93943 FORTY-THIRD
ASILOMAR CONFERENCE ON
SIGNALS, SYSTEMS AND
COMPUTERS



November 1 - 4, 2009 Asilomar Hotel and Conference Grounds

Technical Co-sponsor

IEEE Signal Processing Society

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FORTY-THIRD ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS & COMPUTERS

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Welcome from the General Chairperson

Prof. Maite Brandt-Pearce, University of Virginia

I am pleased to welcome you to the 43rd Asilomar Conference on Signals, Systems and Computers, a unique and special conference with its beautiful venue, relaxed atmosphere and outstanding technical presentations. I find myself coming back, year after year, and being rejuvenated by the experience, both physically and intellectually.

Asilomar's attractions are multifaceted. The venue offers an unsurpassed view of the Pacific Ocean and an intimate camp-like ambiance. Professors, students, and industry representatives can each find sessions of interest within the very diverse topics covered, from traditional signal processing and wireless communications to more modern areas such as digital photography and MIMO radar. The longer presentation times at Asilomar stimulate a deeper technical exchange and attract a good mix of old timers like myself and new eager faces that are the future of the conference and our field

The technical committee, chaired by Jim Schroeder of Harris Corporation, has put together a first-class program composed of 158 invited papers and 236 contributed papers. These have been organized into seven parallel tracks of oral talks with simultaneous poster sessions. Jim has been the best Technical Chair I could have dreamt of, and, from what I have seen, the papers are outstanding this year.

One of the highlights of the program is the Sydney Parker Memorial Lecture to be given by a trio of eloquent speakers, Dolores M. Etter, Geoffrey Orsak, and Sally Wood, who will enlighten us on "The Infinity Project: Ten Years Later". Delores Etter holds the Texas Instruments Distinguished Chair in Engineering Education at Southern Methodist University (SMU). Geoffrey Orsak is Dean of the Lyle School of Engineering at SMU. Sally Woods is currently a Program Director at the National Science Foundation. Their humorous and energetic style is sure to entertain us as we learn about the challenges of introducing engineering into secondary school curricula, i.e., how we will soon all be surpassed by 15 year olds.

We will host a student paper contest chaired this year by John Pierre of the University of Wyoming. A set of student finalist have been selected and will present their papers in front of a panel of judges on Sunday afternoon. The best three will receive awards and accolades at the beginning of the conference plenary session.

As General Chair I extend a warm invitation for you to participate in all aspects of the Asilomar conference: the plenary talk, student paper contest, oral and poster sessions, family style meals, and the obligatory walk along the beach. Enjoy!

Maite Brandt-Pearce, University of Virginia, July 2009

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Chairman Dr. James Schroeder Harris Corporation GCS

2009 Asilomar Technical Program Committee Members

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2009 Asilomar Conference Session Schedule

Sunday Afternoon, November 1, 2009

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

Monday Morning, November 2, 2009

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

8:00 AM - 6:00 PM Registration

8:30 AM - 12:10 PM MORNING SESSIONS

MA1a Image Retrieval

MA1b Spread Spectrum Networks
MA2a Brain Machine Interfaces I
MA2b Brain Machine Interfaces II
MA3 Adaptivity in Communications
MA4 Mathematical Signal Processing

MA5 MIMO Radar Processing and Design

MA6 Adaptive Signal Processing I

MA7 Integrated Algorithm and Architecture Implementation

MA8a1 Sensor Networks (Poster)

MA8a2 Wireless PAN and LAN (Poster)

MA8b1 Models for Signal and Image Processing (Poster)

MA8b2 Image Processing Methods for Space Applications (Poster)

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

Monday Afternoon, November 2, 2009

1:30 - 5:10 PM AFTERNOON SESSIONS

MP1a Wireless Networks

MP1b Wavelets

MP2 Multisensor Array Processing for Radar, Sonar, and Imaging
 MP3 Signal and receiver design for modulation and detection with reconfigurable wireless systems

MP4 Image and Video Coding I

MP5 MIMO in Underwater Communications

MP6 Adaptive Signal Processing II

MP7a Communications and Airborne Networks

MP7b Reconfigurable Architectures and Processors

MP8a Hardware Techniques & Implementations (Poster)

Monday Evening, November 2, 2009

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.

2009 Asilomar Conference Session Schedule (continued)

Tuesday Morning, November 3, 2009

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 Network Coding

TA2b Advances in Medical Imaging

TA3b Secure Communications

TA4b Image and Video Enhancement/Filtering

TA5b Image and Video Coding IITA6b Adaptive Signal Processing III

TA7b Computer Arithmetic I

TA8b1 Communication Systems I (Poster)

TA8b2 Communication Systems II (Poster)

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

Tuesday Afternoon, November 3, 2009

1:30 - 5:35 PM AFTERNOON SESSIONS

TP1a Network Design

TP1b Relay Networks

TP2a Reading the Brain -- Decoding Perception and Cognition

TP2b Neural Signal Processing

TP3 Wideband Communications and Interference Management

TP4 Detection and Estimation II

TP5 MIMO RadarTP6a Speech Coding

TP6b Computational Photography

TP7 Communication Processors and Accelerators

TP8a1 Array and Statistical Signal Processing I (Poster)

TP8a2 Array and Statistical Signal Processing II (Poster)

TP8a3 Adaptive Signal Processing IV (Poster)

TP8b1 MIMO Communications I (Poster)

TP8b2 MIMO Communications II (Poster)

Tuesday Evening, November 3, 2009

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

2009 Asilomar Conference Session Schedule (continued)

Wednesday Morning, November 4, 2009

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 Sparse Representations and Compressive Sensing

WA2a Functional Imaging

WA2b Computer Aided Diagnosis

WA3 OFDM and MIMO for Optical Wireless

WA4 Estimation and Detection I

WA5 MIMO Communications: Network Issues and Implications

WA6a Speech Processing I WA6b Speech Processing II WA7 Computer Arithmetic II

WA8 Resource Allocation and Beamforming for Next Generation Wireless

12:00 - 1:00 PM Lunch – Meal tickets may be purchased at registration

desk. This meal is not included in the registration.

Student Paper Contest

Merrill Hall - Sunday, November 1, 2009 Judging starts at 5:00 PM

(Listed in paper number order)

"Compression-Aware Digital Pan/Tilt/Zoom"

Mina Makar, Aditya Mavlankar, Bernd Girod, Stanford University

"Multi-delay Block Frequency Domain Adaptive Filters with Sparse Partial Subblock Update"

Yifan Sun, Franklin W. Olin College of Engineering; Jie Chen, Keshab K. Parhi, University of Minnesota

"A Fast ACSU Architecture for Viterbi Decoder Using T-Algorithm" **Jinjin He**, Huaping Liu, Oregon State University; Zhongfeng Wang, Broadcom Corporation

"Performance Analysis of Relay Channel Estimation"

Panagiota Lioliou, Mats Viberg, Chalmers University; Mikael
Coldrey, Ericsson AB

"Performance Bounds for Expander-Based Compressed Sensing with Poisson Noise"

Sina Jafarpour, Princeton University; Rebecca Willett, Maxim Raginsky, Duke University; Robert Calderbank, Princeton University

"Robust Fitting of Ellipses and Spheroids"

Jieqi Yu, Sanjeev Kulkarni, H. Vincent Poor, Princeton University

"Reformulating the Least-Square Source Localization Problem with Contracted Distances"

Giuseppe Destino, Giuseppe Abreu, University of Oulu

"Multichannel Image Restoration Based on Optimization of the Structural Similarity Index"

Maja Temerinac-Ott, Hans Burkhardt, University of Freiburg

2009 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, November 3, 2009

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

1. Welcome from the General Chairperson:

Prof. Maite Brandt-Pearce

University of Virginia

2. Student Paper Contest:

Dr. John W. Pierre

University of Wyoming

3. Session TA1a

Distinguished Lecture for the 2009 Asilomar Conference

The Infinity Project: Ten Years Later

Delores M. Etter

Southern Methodist University

Geoffrey Orsak

Southern Methodist University

Sally Woods

National Science Foundation

Abstract

The Infinity Project is a leader in high-tech engineering for secondary schools. Developed in 1999, it now reaches over 400 schools in 38 states. This presentation will discuss the initial goals of the program and the challenges of introducing engineering into secondary school curricula. It will also discuss the importance of providing a full package – cutting-edge curriculum, outstanding instructional materials, hands-on design projects, low-cost high impact classroom technology, and best-in-class professional development. We include an assessment of the impact of the Infinity Project – in quantitative and qualitative terms. Finally, we present a

glimpse into the next phase of The Infinity Project, and its audience.

Biographies

Delores M. Etter holds the Texas Instruments Distinguished Chair in Engineering Education at Southern Methodist University (SMU). She is also the Director of the Caruth Institute for Engineering Education. Before coming to SMU, Dr. Etter was a faculty member in the Electrical Engineering Department at the United States Naval Academy. From 2005-2007 she was the Assistant Secretary of the Navy for Research, Development, and Acquisition. She is also a former faculty member at the University of Colorado at Boulder and the University of New Mexico, and was a Visiting Professor at Stanford University. She is a member of the National Academy of Engineering and a former member of the National Science Board.

Geoffrey Orsak is Dean of the Lyle School of Engineering at SMU. He is one of the founding members of the Infinity Project, and provided the leadership for this program over the last 10 years. He was formerly an Associate Dean of Engineering for Research at SMU, and a member of the Electrical Engineering Department. He is a former faculty member at George Mason University in Fairfax, VA.

Sally Woods is currently a Program Director at the National Science Foundation. She is a former Dean of Engineering at Santa Clara University, and a member of the Electrical Engineering Department there. She is also one of the founding members of the Infinity Project, and leads the effort for the new edition of the Infinity textbook.

Program of 2009 Asilomar Conference on Signals, Systems, and Computers

Technical Program Chairman
Dr. James Schroeder
Harris Corporation GCS

Session 1	MA1a Image Retrieval		MA2a-4		laptive Actor-Critic Architecture for	9:45 AM
Chair: Yon	gyi Yang, Illinois Institute of Technology				Brain-Machine Interfaces Justin Sanchez, Babak Mahmoudi, Jose Principe,	
MA1a-1	Content Based Image Retrieval from Chest Radiography Databases	8:30 AM	Session 1	•	y of Florida Brain Machine Interfaces II	ſ
3.5.1.4	Shengwen Guo, Jinshan Tang, Alcorn State Universi				us, Northeastern U.	_
MA1a-2	Segmentation and Shape-based Retrieval of Neurons Scott Acton, Barry Condron, University of Virginia	8:55 AM	MA2b-1	Could an	ayone use a BCI? Allison, Will update	10:30 AM
MA1a-3	Retrieval of Pneumoconiosis Images Using Multi-scale AM-FM Methods Victor Murray, Marios Pattichis, University of New Mexico; Peter Soliz, VisionQuest Biomedical, LLC	9:20 AM	MA2b-2	The Use Compute Nuri F. In Medical C	of Local Field Potentials in Brain or Interfaces nce, University of Minnesota; Rahul Gupta Center; Sami Arica, Cukurova University;	Ahmed
MA1a-4	Online Learning of Relevance Feedback from Expert Readers for Mammogram Retrieval Issam El Naqa, Jung Hun Oh, Washington Universit School of Medicine; Yongyi Yang, Illinois Institute of Technology	y	MA2b-3	Minnesote Enhancir human-c Kenneth F	, James Ashe, Giuseppe Pellizzer, Univers a ng target detection using a hybrid omputer system Hild, Oregon Health & Science University Mathan, Honeywell Laboratories; Misha P	11:20 AM
Session 1	1 1			Oregon H	lealth & Science University; Deniz Erdogi	
-	one Stark, University of Michigan	10.20 13.5	MA2b-4		ern University Communication using Blood Vessels	11:45 AM
MA1b-1	Tradeoff Between Spoofing and Jamming a Cognitive Radio Network Qihang Peng, Pamela C. Cosman, Laurence B. Milst University of California, San Diego	10:30 AM tein,		as the Tr Khursheed	ansport Channel d Hassan, Jeffrey Andrews, Wolfgang Fre y of Texas at Austin	
MA1b-2	The Cost of Using Cooperation in a Wireless	10:55 AM	Session 1	MA3	Adaptivity in Communicati	ons
	Network Leonard J. Cimini, Jr, Chien-Chung Shen, Lu Zhang		Chair: Rob	bert Calder	bank, Princeton University	
MA1b-3	University of Delaware Enhancing Transport Capacity with Optimum Energy Allocation for Geographic Transmissio Tathagata D. Goswami, John M. Shea, Murali Rao,	11:20 AM	MA3-1	Network Vaneet Ag Sabharwa	ggarwal, Princeton University; Ashutosh ıl, Rice University	8:30 AM
MA1b-4	Joseph Glover, University of Florida Achievable Rates in Gaussian Parallel Cognitive Relay Networks	11:45 AM	MA3-2	Processir	nones – An Adaptive Signal ng Perspective ami Paulraj, Stanford University	8:55 AM
	Debdeep Chatterjee, Tan F. Wong, Ozgur Oyman, University of Florida		MA3-3	Improved Modulati	d Adaptive Bit-Interleaved Coded ion for Mobile Radio OFDM Systems Fading Prediction	9:20 AM
Session 1	MA2a Brain Machine Interfaces I in Sanchez, U. of FLorida			Tao Jia, T	Trading Frediction The MathWorks Inc.; Alexandra Duel-Hali rolina State University	len,
MA2a-1	Overcoming Power/Information Tradeoffs in Neural Signal Acquisition Stephen O'Driscoll, Teresa Meng, Stanford University	8:30 AM	MA3-4	Interferentiation into the C	nce Alignment and Related Insights Capacity of Wireless Networks Vafar, University of California, Irvine	9:45 AM
MA2a-2	Applying information theoretic measures to	8:55 AM		BREAK		10:10 AM
MA2a-3	computation and communication in neural ensembles Jose M Carmena, Ryan T Canolty, Michael C Gastpe University of California, Berkeley A Brain-Machine Interface for Restoring	ar, 9:20 AM	MA3-5	multiuse M. Chiang Illinois at	power control and beamforming in r downlink systems g, Princeton University; R. Srikant, Unive Urbana-Champaign; Chee Wei Tan, Cali of Technology	
	Hand Function Following Paralysis Eric Perreault, Christian Ethier, Eric Pohlmeyer, En Oby, Lee Miller, Northwestern University	nily	MA3-6	Systems Stephan S	Aware Adaptive Communication and, Ralph Tanbourgi, Christian Mensing aulefs, German Aerospace Center (DLR)	10:55 AM

MA3-7	Location-aware Cognitive Sensing for Maximizing Network Capacity Peng Jia, Mai Vu, Tho Le-Ngoc, McGill University	11:20 AM	MA5-2	Performance bound for localization of a 8:55 AM narrowband source Vlad M. Chiriac, Alexander M. Haimovich, New Jersey
MA3-8		11:45 AM		Institute of Technology; Stuart C. Schwartz, Princeton University
	Chih-Hao Liu, P. P. Vaidyanathan, California Insti. Technology	tute of	MA5-3	On Designing Unimodular Periodic Sequence 9:20 AM Sets with Good Correlations
Session	MA4 Mathematical Signal Proces	ssing		Hao He, Duc Vu, University of Florida; Petre Stoica, Uppsala University; Jian Li, University of Florida
Chair: Ton	n Taylor, Arizona State University		MA5-4	Sensor Scheduling with Waveform Design for 9:45 AM
MA4-1	Primal-Dual Method for Robust Spectral Estimation of Complex Valued Sequences Donald Day, Johns Hopkins University	8:30 AM		Dynamic Target Tracking Using MIMO Radar Bhavana Manjunath, Jun Zhang, Antonia Papandreou- Suppappola, Darryl Morrell, Arizona State University
MA4-2	Robust Fitting of Ellipses and Spheroids	8:55 AM		BREAK 10:10 AM
	Jieqi Yu, Sanjeev Kulkarni, Harold Poor, Princeton University	!	MA5-5	MIMO Field Directionality Estimation Using 10:30 AM Orientation-Diverse Linear Arrays
MA4-3	Rank Revealing QR Algorithm Based on	9:20 AM		Granger Hickman, Jeffrey Krolik, Duke University
	Toeplitz Structure for Near-field Sources Nizar Tayem, Attanayake Champike, Ayo Abatan, M university	Iiami	MA5-6	Optimal Waveform Scheduling for 10:55 AM Distributed Arrays
MA4-4	Unifying Spherical Harmonic and 2-D Fourier Decompositions of the Array Manifold	9:45 AM		Sofia Suvorova, University of Melbourne; Stephen Searle, Stephen Howard, Defence Science and Technology Organisation; Bill Moran, University of Melbourne
	Mário Costa, Helsinki University of Technology; An Richter, Nokia Research Center; Visa Koivunen, He University of Technology	ndreas	MA5-7	Target Detection in MIMO Radar using 11:20 AM Golay Complementary Sequences in the Presence of
	BREAK	10:10 AM		Doppler Tariq Qureshi, Michael Zoltowski, Purdue University; Robert Calderbank, Princeton University
MA4-5	Matched detector in the presence of interference subspace uncertainty. Jean Jacques Fuchs, Université de Rennes 1	10:30 AM	MA5-8	The IFIR-like active beamformer: competitor 11:45 AM for MIMO radar? Palghat Vaidyanathan, California Institute of Technology;
MA4-6	Compact Storage of Correlated Data for Content Based Retrieval	10:55 AM		Ching-Chih Weng, California Institute Of Technology
	Atul Divekar, Okan Ersoy, Purdue University		Session 1	MA6 Adaptive Signal Processing I
MA4-7	Noisy Signal Recovery via Iterative Reweighted L1-Minimization	11:20 AM	Chair: Pete	ar Djuric, SUNY Stony Brook
	Deanna Needell, University of California, Davis		MA6-1	Diffusion LMS-Based Distributed Detection 8:30 AM Over Adaptive Networks
MA4-8	Wideband Discrete Transformation of Acoustic Signals in Underwater Environments			Federico S. Cattivelli, Ali H. Sayed, University of California, Los Angeles
	Nicolas François Josso, GIPSA-lab; Jun Zhang, An Papandreou-Suppappola, Arizona State University; Cornel Ioana, GIPSA-lab; Cedric Gervaise, ENSIE Yann Stephan, SHOM; Jérôme I. Mars, GIPSA-lab		MA6-2	Improved Adaptive Filtering Schemes via 8:55 AM Adaptive Combination Jeronino Arenas-Garcia, Universidad Carlos III de
Session	MA5 MIMO Radar Processing an	nd		Madrid; Luis A. Azpicueta-Ruiz, Anibal R. Figueiras- Vidal, Freidrich-Alexander University Erlangen-
	Design		MA6 2	Nuremberg Lassa Valman Filtering for Tracking Sparse 0:20 AM
Chair: Ary	e Nehorai, Washington University, St. Louis		MA6-3	Lasso Kalman Filtering for Tracking Sparse 9:20 AM Signals
MA5-1	OFDM MIMO Radar for Low Grazing Angle Tracking	8:30 AM		D Angelosante, S. Roumeliotis, Researcher; G. B. Giannakis, University of Minnesota
	Satyabrata Sen, Arye Nehorai, Washington Univers St. Louis	ity in	MA6-4	On Proportionate-type NLMS Algorithms for 9:45 AM Fast Decay of Output Error at All Times K Wagner, Researcher; Milos Doroslovacki, George Washington University

	BREAK	10:10 AM	MA7-7	Integration of Dataflow Optimization 11:20 AM Techniques into a Software Radio Design
MA6-5	Asymptotic Noise Analysis of High Dimensional Consensus Usman Khan, Soummya Kar, Jose' Moura, Carneg Mellon University	10:30 AM ie		Framework George Zaki, William Plishker, University of Maryland; Tim O'shea, North Carolina State University; Nick McCarthy, LTS; Shuvra Bhattacharyya, Charles Clancy,
MA6-6	Time-space-adaptive distributed state estimation with low-rate inter-sensor communications Ondrej Hlinka, Georg Kail, Franz Hlawatsch, Rese Petar Djuric, Stony Brook University	10:55 AM archer;	MA7-8	University of Maryland; Eric Blossom, Blossom Research FPGA Prototyping of a High Data Rate LTE 11:45 AM Uplink Baseband Receiver Guohui Wang, Bei Yin, Kiarash Amiri, Yang Sun, Joseph R. Cavallaro, Rice University
MA6-7	Set-Membership Reduced-Rank Algorithms based on Joint Iterative Optimization of Adap		Session I	MA8a1 Sensor Networks
	Filters		Chair: Myr	on Hattig, Intel Corporation 8:30 AM - 10:10 AM
MA6-8	Patrick Clarke, Rodrigo C. de Lamare, University of Multi-delay Block Frequency Domain Adaptive Filters with Sparse Partial Subblock Update	11:45 AM	MA8a1-1	A Roesser Model Based Multidimensional Systems Approach for Grid Sensor Networks Buddika Sumanasena, Peter Bauer, University of Notre Dame
G •	Yifan Sun, F. W. Olin College of Engineering; Jie C Keshab Parhi, University of Minnesota	Chen,	MA8a1-2	Broadcast-based Dynamic Consensus Propagation in Wireless Sensor Networks
Session	MA7 Integrated Algorithm and Architecture Implementation	an a		Valentin Schwarz, Gerald Novak, Gerald Matz, Vienna University of Technology
Chair: Rog	er Woods, Queen's University, Belfast	<i>)</i> 11	MA8a1-3	Computing Geometric Mean over Multiple Access Channel: Error Analysis and Comparisons Mario Goldenbaum, Slawomir Stanczak, Fraunhofer
MA7-1	Operand Access in Regular Topology Discrete Trigonometric Transforms	8:30 AM		German-Sino Lab for Mobile Communications
	Jarmo Takala, Lassi Nurmi, Harri Sorokin, Tamper University of Technology	re	MA8a1-4	Error Resilient Distributed Estimation in Wireless Sensor Networks Kiran Sampath Kumar, Hongbin Li, Stevens Institute of
MA7-2	Analysis of Twiddle Factor Memory Complexity of Radix-2 ^{^i} Pipelined FFTs Fahad Qureshi, Oscar Gustafsson, Linköping Unive	8:55 AM	MA8a1-5	Technology Distributed Estimation in Sensor Networks Over Binary
MA7-3	Compiler Driven Architecture Design Space Exploration for Embedded DSP Workloads:	9:20 AM		Symmetric Channels Kiran Sampath Kumar, Hongbin Li, Stevens Institute of Technology
	A Study in Software Programmability Versus Hardware Acceleration. Michael Brogioli, Joseph Cavallaro, Rice Universit	'v	MA8a1-6	Multi-layer architecture for location systems based on wireless sensor networks
MA7-4	Ultra-fine Programmable	9:45 AM		Javier Rodas, Carlos J. Escudero, Universidade da Coruña
	Chip-Multiprocessing for FPGA DSP Matthew Millford, John McAllister, Queen's Univer- Belfast	rsity	MA8a1-7	An Intrusion Detection Framework for Sensor Networks Using Ant Colony Rajani Muraleedharan, Osadciw Lisa, Syracuse
	BREAK	10:10 AM		University
MA7-5	A Fast ACSU Architecture for Viterbi Decoder Using T-Algorithm Jinjin He, Oregon State University; Zhongfeng War Broadcom Corporation; Huaping Liu, Oregon State		MA8a1-8	Cross measurement process with a ZigBee sensor network Javier Rodas, Carlos J. Escudero, Universidade da Coruña
	University		MA8a1-9	Secure Self-Adaptive Framework for Distributed Smart Home Sensor Network
MA7-6	Fully automated MPSoC design of a H.624 Video Decoder Hristo Nikolov, Todor Stefanov, Ed Deprettere, Lei	10:55 AM		Rajani Muraleedharan, Lisa Osadciw, Syracuse University
	University	ucii	MA8a1-10	Cognitive Security Protocol for Sensor Based VANET Using Swarm Intelligence Rajani Muraleedharan, Lisa Osadciw, Syracuse University

Session MA8a2 Wireless PAN and LAN

Chair: Myron Hattig, Intel Corporation 8:30 AM - 10:10 AM

- MA8a2-1 Interference Aware Link Discovery for Device Communication

 Brett Kaufman, Behnaam Aazhang, Rice University;

 Jorma Lilleberg, Nokia
- MA8a2-2 A low-complexity location estimation scheme for indoor wireless Local area networks

 Santosh Pandey, Cisco Systems; Manu Parmar, Stanford
 University
- MA8a2-3 Reformulating the Least-Square Source Localization Problem with Contracted Distances Giuseppe Destino, Giuseppe Abreu, University of Oulu
- MA8a2-4 Minimum-Energy Multicast Tree in Cognitive Radio Networks Wei Ren, Xiangyang Xiao, Qing Zhao, University of California, Davis
- MA8a2-5 Multi-band, multi-radio wireless LANs and PANs Robert Stacey, Intel Corporation
- MA8a2-6 Augmenting Wireless LAN Technology for WiFi PAN Emily Qi, Marc Meylemans, Myron Hattig, Intel Corporation

Session MA8b1 Models for Signal and Image Processing

Chair: Balu Santhanam, University of New Mexico 10:30 AM - 12:10 PM

- MA8b1-1 Dynamically Reconfigurable Computing Models for Image and Video Processing Applications G. Alonzo Vera, Micro-RDC; Daniel Llamocca, Marios Pattichis, University of New Mexico; James Lyke, Air Force Research Laboratory
- MA8b1-2 Reconstruction of Aerial Images from Fourier Spectral Samples Using Statistical Models Oliver Jeromin, Marios Pattichis, University of New Mexico
- MA8b1-3 Blind Signal Separation and Identification of Mixtures of Images
 Felipe P. do Carmo, Joaquim T. de Assis, Vania Vieira
 Estrela, Alessandra M. Coelho, State University of Rio de
 Janeiro
- MA8b1-4 Mono-Microphone Blind Audio Source Separation Using EM-Kalman Filters and Short+Long Term AR Modeling Antony Schutz, Siouar Bensaid, Dirk Slock, Eurecom
- MA8b1-5 A Nonlocally Weighted Soft-Constrained Natural
 Gradient Algorithm and Blind Separation of Reverberant
 Speech Mixtures
 Meng Yu, Jack Xin, Yingyong Qi, Hsin-I Yang, Fan-Gang
 Zeng, University of California, Irvine
- MA8b1-6 Statistical Modeling of Multi-camera Images Rajiv Soundararajan, Alan Bovik, Sriram Vishwanath, University of Texas at Austin

- MA8b1-7 On Compressed Sensing and Its Application to Speech and Audio Signals

 Mads Græsbølt Christensen, Jan Østergaard, Søren Holdt

 Jensen, Aalborg University
- MA8b1-8 Analysis of Stress in Speech Using Adaptive Empirical Mode Decomposition James Zhang, Nyaga Mbitiru, Peter Tay, Robert Adams, Western Carolina University
- MA8b1-9 Automated Text Content Identification for Document Processing Using a Kernel-based Support Vector Selection Approach

 Steven Benveniste, Department of the Air Force; Monique Fargues, Naval Postgraduate School
- MA8b1-10 Optical Motion Tracking in Earthquake-Simulation Shake Table Testing: Preliminary Results Paul Rodriguez, Pontifical Catholica University of Peru
- MA8b1-11 Optimal Filters for Extraction and Separation of Periodic Sources

 Mads Græsbøll Christensen, Aalborg University; Andreas
 Jakobsson, Lund University
- MA8b1-12 Design and Implementation of a Multispectral Iris Capture System Hau Ngo, Robert Ives, James Matey, Michael Rhoads, Debbi Choi, United States Naval Academy
- MA8b1-13 Multiple Description Spherical Quantization of Sinusoidal Parameters with Repetition Coding of the Amplitudes Jesper Rindom Jensen, Mads Græsbøll Christensen, Aalborg University; Morten Holm Jensen, Widex A/S; Søren Holdt Jensen, Torben Larsen, Aalborg University
- MA8b1-14 Exploiting User / Tool Interactions for Content Based Search Reid Porter, Christy Ruggiero, Don Hush, Los Alamos National Laboratory
- MA8b1-15 Image Encryption Using Discrete Parametric Cosine Transform Yicong Zhou, Karen Panetta, Tufts University; Sos Agaian, University of Texas at San Antonio
- MA8b1-16 Combination of Kalman-Based and Cluster-Based Methods for Reconstruction of Missing Features for Noise Robust Speech Recognition Arash Mohammadi, York University; Farshad Almasganj, Amirkabir University
- MA8b1-17 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*

Session I	MA8b2 Image Processing Methods for Space Applications	MP1b-2	The Easy Path Wavelet Transform for Optimally Sparse Image Representation Gerlind Plonka, University of Duisburg-Essen
PM	en Suddarth, University of New Mexico 10:30 AM - 12:10	MP1b-3	Sparse Data Representation by Tetrolet Transform Jens Krommweh, University Duisburg-Essen 4:20 PM
MA8b2-1 MA8b2-2	Parametric, Frequency-Domain Approach for Clutter Analysis and Rejection in Remote Sensing Jeffrey Kern, Sandia National Laboratories Active Learning schemes for Reduced Dimensionality	MP1b-4	Critically Sampled Wavelets with Composite 4:45 PM Dilations Glenn Easley, System Planning Corporation; Demetrio Labate, University of Houston
MA8b2-3	Hyperspectral Classification Vikram Jayaram, Bryan Usevitch, University of Texas at El Paso A Dynamic Computing Platform for Space Image and	MP1b-5	Wavelet ridge estimation of sparse jointly 5:10 PM modulated multivariate oscillations Jonathan Lilly, Earth and Space Research; Sofia Olhede,
11111002 3	Video Processing Applications Daniel Llamocca, University of New Mexico; Alonzo Vera, Microelectronics Research Development Corporation; Marios Pattichis, University of New Mexico	Session	MP2 Multisensor Array Processing for Radar, Sonar, and Imaging
MA8b2-4	Hierarchical Dense Correspondence for Aerial Video	Chair: Lou	uis Sharf, Colorado State University
MAGLOS	Mark Duchaineau, Jonathan D. Cohen, Lawrence Livermore National Laboratory	MP2-1	Spatial Correlation for Directional Sensors in Arbitrary Noise Fields
MA8b2-5	3D Reconstruction of Large-Area Terrain from Stereoscopic Airborne Imagery		Henry Cox, Hung Lai, Lockheed Martin; Kristine Bell, George Mason University
MA8b2-6	Curtis Padgett, Yang Cheng, Jet Propulsion Laboratory Advanced Processing for Imaging Nano-Spacecraft Steven C. Suddarth, COSMIAC	MP2-2	Compressed Sensing for MIMO radar - 1:55 PM Algorithms and Performance Thomas Strohmer, University of California, Davis;
Session I	MP1a Wireless Networks		Benjamin Friedlander, University of California, Santa Cruz
Chair: Way	one Stark, University of Michigan	MP2-3	Expected Likelihood-based 2:20 PM
MP1a-1	Joint Optimization of Antenna Orientation 1:30 PM and Spectrum Allocation for Cognitive Radio Networks Wenxuan Guo, Xinming Huang, Worcester Polytechnic Institute		Detection-Estimation of Multi-Rank Signals Yuri I. Abramovich, Defence Science and Technology Organisation; Ben A. Johnson, Lockheed Martin Australia; Louis L. Scharf, Ali Pezeshki, Colorado State University; Nicholas K. Spencer, Adelaide Research and Innovation, Pty. Ltd.
MP1a-2	A Hierarchical Game Approach to Spectrum Sharing Mehdi Bennis, Centre for Wireless Communication	MP2-4	Basis Pursuit for Robust Passive Acoustic 2:45 PM Beamforming Ben Shapo, Chris Kreucher, Integrity Applications
MP1a-3	Distributed Estimation over Fading MACs with Multiple Antennas at the Fusion Center		Incorporated
	Anthony Smith, L-3 Communications; Mahesh Banavar,		BREAK 3:10 PM
MP1a-4	Cihan Tepedelenlioglu, Andreas Spanias, Arizona State University Performance Analysis of Slotted ALOHA 2:45 PM	MP2-5	Multi Face Radar Processing: A New 3:30 PM Application of MIMO Radar Michael Zatman, QinetiQ North America
1711 14-7	with Periodic Server Vacations for Energy-efficient Medium Access Owens Walker, Murali Tummala, John McEachen, Naval	MP2-6	Analysis of Circular Aperture SAR Image 3:55 PM Formation Rajesh Sharma, Northrup Grumman
Session I	Postgraduate School MP1b Wavelets	MP2-7	Detection of Unknown Signals in Unknown, 4:20 PM
	teza Shahram, Stanford University		Non-Stationary Noise David Browne, MIT Lincoln Laboratory
211411.17101			

3:30 PM

Gain Scaling for Multirate Filter Banks

Christopher M. Brislawn, Los Alamos National

MP1b-1

Laboratory

MP2-8	Polynomial-phase estimation, phase 4:45 Pl unwrapping and the nearest lattice point problem Robby McKilliam, Vaughan Clarkson, University of Queensland; Barry Quinn, Macquarie University; Bill Moran, Melbourne University		MP3-9	Resource Allocation for Cognitive Radio Networks with a Beamforming User Selection Strategy Bassem Zayen, Aawatif Hayar, Eurecom; Geir Oien, Norwegian University of Science and Technology	0 PM
MP2-9	Reduced-Rank STAP for MIMO Radar Based on Joint Iterative Optimization of Knowledge-A		Session N	IP4 Image and Video Coding I	
	Adaptive Filters	Alucu	Chair: Mich	ael Marcellin, University of Arizona	
	Rui Fa, Rodrigo C. de Lamare, Patrick Clarke, Univ of York	ersity	MP4-1	Autonomous Decision Making in Layered 1:30	0 PM
Session	·			and Reconfigurable Video Coders	
Session	modulation and detection wi			Nick Mastronarde, Mihaela van der Schaar, University of California, Los Angeles	
	reconfigurable wireless syste		MP4-2		5 PM
Chair: <i>Mi</i>	ke Zoltowski, Purdue University			Joan Bartrina-Rapesta, Joan Serra-Sagrista, Francesc Auli-Llinas, Juan Munoz-Gomez, Universitat Autonoma de Barcelona	
MP3-1	Spatio-Temporal Scheduling of Complementary Sequences with Application to MIMO-OFDM		MP4-3	Perceptual Distortion Metric for JPEG2000 Han Oh, Ali Bilgin, Michael Marcellin, University of Arizona 2:20	0 PM
	Chad Lau, Michael Zoltowski, Purdue University; Re Calderbank, Princeton University	opert	MP4-4	1	5 PM
MP3-2	Trellis Coded Beamforming Vector	1:55 PM		source coding principles Zixiang Xiong, Texas A&M University	
	Quantization with Fractional Bits Per Antenna Chun Kin Au-Yeung, David Love, Purdue University			•	0 PM
MP3-3	Performance Bounds for Expander-Based Compressed Sensing with Poisson Noise Sina Jafarpour, Princeton University; Rebecca Wille Maxim Raginsky, Duke University; Robert Calderbase Princeton University		MP4-5	Inter-Frame Video Coding Jing Hu, Cisco Systems; Jerry Gibson, University of California, Santa Barbara	0 PM
MP3-4	Sparsity-Aware Cooperative Cognitive Radio Sensing Using Channel Gain Maps Seung-Jun Kim, University of Minnesota; Emiliano	2:45 PM	MP4-6	Edge-preserving Depth-map Coding using Tree-based Wavelets Alfonso Sanchez, Godwin Shen, Antonio Ortega, University of Southern California	5 PM
	Dall'Anese, University of Padova; Georgios B. Gian University of Minnesota	nakis,	MP4-7		4:20 PM
	BREAK	3:10 PM		Channels using Bimodal Leaky Prediction Ufuk Celikcan, Ertem Tuncel, University of California, Riverside	
MP3-5	Transmission Techniques and Channel Estimation for Spatial Interweave TDD Cognit Radio Systems Francesco Negro, Institut Eurecom; Irfan Ghauri, In Technologies France; Dirk Slock, Institut Eurecom	fineon	MP4-8		5 PM
MP3-6	Effect of Quantization and Channel Errors on Collaborative Spectrum Sensing.	3:55 PM	Session N	MP5 MIMO in Underwater	
	Sachin Chaudhari, Visa Koivunen, Helsinki Universi Technology	ty of	2 022-0	Communications	
MP3-7	Performance Analysis in AF/DF Relay Networks with Beamforming Hyunjun Kim, Cihan Tepedelenlioglu, Arizona State	4:20 PM	Chair: <i>Mag Technology</i> MP5-1	,	0 PM
MP3-8	University Dynamic Spectral Shaping in Cognitive Radios with Quality of Service Constraints Deepak Joshi, Dimitrie Popescu, Old Dominion University; Octavia Dobre, Memorial University of Newfoundland	4:45 PM	IVII J-1	MIMO underwater acoustic communications T.C. Yang, US Naval Research Laboratory	<i>J</i> 1 1V)

MP5-2	Training Sequence Synthesis, Channel Estimation and Symbol Detection for MIMO Underwater Acoustic Communications	1:55 PM	MP6-4	Active Noise Control Based On Kernel 2:45 PM Least-Mean-Square Algorithm Hua Bao, Issa Panahi, University of Texas at Dallas
	Xiang Su, Jun Ling, University of Florida; Magnus Lundberg Nordenvaad, Luleå University of Technol Hao He, Jian Li, University of Florida	ogy;	1406.5	BREAK 3:10 PM
MP5-3	MIMO OFDM Over Underwater Acoustic Channels Milica Stojanovic, Northeastern University	2:20 PM	MP6-5	Forgetting Factor Selection in RLS 3:30 PM Decision-Directed Tracking of Doubly-Selective Channels Hyosung Kim, Jitendra Tugnait, Auburn University
MP5-4	Capacity of MIMO Systems in Shallow Water Acoustic Channels Tolga Duman, Arizona State University; John Proak University of California, San Diego; Milica Stojano	cis, vic,	MP6-6	Adaptive Cancellation of Acoustic Echoes During Double-Talk Based on an Information Theoretic Criteria Jake Gunther, Todd Moon, Utah State University
	Northeastern University; Andreja Radosevic, Univer California, San Diego		MP6-7	A soft-input adaptive equalizer algorithm 4:20 PM Todd Moon, Jacob Gunther, Utah State University
	BREAK	3:10 PM	MP6-8	An Exponentially Convergent Adaptive 4:45 PM
MP5-5	The Optimal Training Length for MIMO Frequency-Selective Channel for Time-Varyin Channels Xiang Zou, James Ritcey, University of Washington	3:30 PM		Algorithm for Time-varying IIR Filters Geoffrey A. Williamson, Mohammad Abu-Naser, Illinois Institute of Technology; Soura Dasgupta, University of Iowa
MP5-6	A New Approach for Joint Channel	3:55 PM	Session	MP7a Communications and Airborne
	Estimation and Data Detection in MIMO Wire	less		Networks
	Systems Raquel Machado, Luis Meloni, Renato Lopes, Unive of Campinas (UNICAMP)	ersity		ao Chen, Syracuse University
MP5-7	Iterative Estimation of Sparse and	4:20 PM	MP7a-1	Aircraft Free-Space MIMO Communications 1:30 PM Michael Gans, Air Force Research Laboratory
	Doubly-selective Multi-input Multi-output (M Channels Jun Won Choi, Kyeongyeon Kim, Thomas Riedl, And Singer, University of Illinois at Urbana-Champaign		MP7a-2	MIMO Z-Interference Channels: Capacity 1:55 PM Under Strong and Noisy Interference Xiaohu Shang, Princeton University; Biao Chen, Syracuse University; Gerhard Kramer, University of Southern
MP5-8	Space-Time Block Coding for Frequency-Selective and Time-Varying Chanr Kun Fang, Geert Leus, Delft University of Technolo		MP7a-3	California; H. Vincent Poor, Princeton University Cognitive CDMA Channelization 2:20 PM Variance Con Stella Patalama Diminia Padae State
Session				Kanke Gao, Stella Batalama, Dimitris Pados, State University of New York at Buffalo; John Matyjas, Air Force Research Laboratory/RIGE
Chair: Ste	ven Grant, Missouri University of Science and Te	echnology	MP7a-4	Cooperative OTH Communications for 2:45 PM
MP6-1	Variable Step-Size NLMS Algorithms Designed for Echo Cancellation Constantin Paleologu, University Politehnica of Bucharest; Jacob Benesty, University of Quebec; Ste	1:30 PM		Airborne Networks: Advantages and Challenges Andrea Rueetschi, University of California, Davis; Matthew Sharp, Cornell University; Anna Scaglione, University of California, Davis
	Grant, University of Missouri-Rolla	.,	Session	MP7b Reconfigurable Architectures and
MP6-2	A Frequency Domain Doubletalk Detector Based On Cross-Correlation and Extension To	1:55 PM		Processors
	Multi-Channel Case		Chair: Jos	se Nunez-Lopez, Bristol University
	Mohammad Asif Iqbal, Qualcomm, Inc.; Steven L. C. University of Missouri-Rolla; Jack W. Stokes, Micro Research		MP7b-1	Reconfigurable Computing: Productivity and 3:30 PM Performance
MP6-3	Adaptive Filtering in the Presence of	2:20 PM		Wayne Luk, Gabriel Coutinho, David Thomas, Imperial College London
	Wide-Band Doppler Steven Grant, Missouri University of Science and Technology; James Casalegno, Raytheon		MP7b-2	LE1: A configurable, multi-cluster, multi-core 3:55 PM VLIW processor for accelerating telecom and media codes Vassilios Chouliaras, David Stevens, Nick Glynn, Loughborough University

MP7b-3	GPU Consta		Techniques for Avoiding Sign-Extension in Multiple Constant Multiplication Oscar Gustafsson, Linköping University; Kenny
MP7b-4	Fast Motion Estimation Using Configurable and Extendable Processing Cores Trevor Spiteri, Jose Nunez-Yanez, George Vafiadis, University of Bristol 4:45 PN	MP8a-11	Johansson, Florida State University Design of Multiplierless FIR Filters with an Adder Depth Versus Filter Order Trade-Off Kenny Johansson, Linda DeBrunner, FAMU-FSU College
MP7b-5	Low Power Cell-Based Reconfigurable Reed 5:10 PN Solomon Processor Ahmed O. El-Rayis, Xin Zhao, Tughrul Arslan, Ahmet T.	MP8a-12	of Engineering; Oscar Gustafsson, Linköping University; Victor DeBrunner, FAMU-FSU College of Engineering A Low-Complexity Rate-Compatible LDPC Decoder
	Erdogan, University of Edinburgh	100 10	Kai Zhang, Worcester Polytechnic Institute
Session N	*	MP8a-13	Hardware Implementation of Real-Time MPEG Analysis and Deblocking for Video Enhancement
	Implementations		Massmo Petricca, Univ. Roma Tor Vergata; Huiying
Chair: Neil	Burgess, University of Bristol 1:30 PM - 3:10 PM	1	Li, Soren Forchhammer, Alberto Nannarelli, Technical University of Denmark; Marco Re, Univ. Roma Tor
MP8a-1	An Efficient Hardware Implementation for Interpolating and Decimating Filters	NEO 14	Vergata; Jacob D. Andersen, Technical University of Denmark; Gian Carlo Cardarilli, Univ. Roma Tor Vergata
MP8a-2	Richard Benson, The MathWorks Inc. DVS 926 CPU for Mobile Handheld Devices Rajalingam A, Kokila B, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College	MP8a-14	A Configurable Timing and Communications Engine for Radio Positioning with Implementations for an FPGA or an ASIC Meredith Beveridge Lecocke, Michael A. Koets, Jennifer
MP8a-3	Scalable Interpolation-based QRD Architecture for Subcarrier-Grouped-Ordering MIMO-OFDM System	MD0. 15	L. Alvarez, Larry T. McDaniel, Miles R. Darnell, Michael D. Lillywhite, Southwest Research Institute
N. 4000 . 4	Po-Lin Chiu, National Chiao-Tung University; Lin-Zheng Huang, Yuan-Hao Huang, National Tsing-Hua University	MP8a-15	Design and FPGA implementation of a low complexity and accurate real time 3x4 MIMO channel emulator <i>Omar Nasr, Babak Daneshrad, University of California,</i>
MP8a-4	High Speed VLSI Architecture for General Linear Feedback Shift Register (LFSR) Structures		Los Angeles
	Chao Cheng, Marvell Semiconductor; Keshab K. Parhi,	Session 7	ΓA1b Network Coding
MP8a-5	University of Minnesota A Novel FIR Filter Implementation Using Truncated	Chair: Yuni	nan Wu, Microsoft Research
ou 0	MCM Technique Rui Guo, Lei Wang, Linda S. DeBrunner, Florida State University	TA1b-1	On Cross-Layer Optimizations for 10:15 AM Intersession Network Coding on Wireless Networks with Practical Constraints.
MP8a-6	Hardware Implementation of IIR Digital Filters for		Chih-Chun Wang, Purdue University
	Programmable Devices Ramsey Hourani, Johns Hopkins University; Christopher Doss, North Carolina A&T State University; Winser Alexander, North Carolina State University	TA1b-2	Cross-Layer Utility Maximization Subject to 10:40 AM Stability Constraints for Multi-Channel Wireless Networks Marian Codreanu, Chathuranga Weeraddana, Matti
MP8a-7	Parallel Image Thinning Through Topological Operators		Latva-aho, University of Oulu
	On Shared Memory Parallel Machines Ramzi Mahmoudi, Mohamed Akil, Petr Matas, ESIEE Engineering	TA1b-3	On Cross-Layer Optimizations for 11:05 AM Intersession Network Coding on Wireless Networks with Practical Constraints
MP8a-8	Optimizing correctly-rounded reciprocal square roots for embedded VLIW cores	:	Chih-Chun Wang, Purdue University; Ness B. Shroff, Abdallah Khreishah, Ohio State University
MD0 - 0	Claude-Pierre Jeannerod, INRIA; Guillaume Revy, Université de Lyon	TA1b-4	Physical Layer Network Coding with Unsynchronized Transmitters 11:30 AM
MP8a-9	Multiple Constant Multiplication through Residue Number System		Dumezie Maduike, Henry Pfister, Alex Sprintson, Texas A&M University
	Ilir Shuli, Massimo Petricca, Gian Carlo Cardarilli, Univ. Roma Tor Vergata; Alberto Nannarelli, Technical University of Denmark; Marco Re, Univ. Roma Tor Vergata	TA1b-5	On combining information theoretic and cryptographic approaches to network coding security against the pollution attack Aditya Khosla, Svitlana Vyetrenko, Tracey Ho, California Institute of Technology

Session TA2b Advances in Medical Imaging

Chair: George Zouridakis, U. of Houston

- TA2b-1 Effects of Inflow Variation in a Cerebral 10:15 AM
 Aneurysm A Image-based Approach for the
 Analysis of CFD Simulation Data
 Christof Karmonik, Yi Zhang, Methodist Hospital
 Neurological Institute; Martin Spiegel, University of
 Erlangen; Thomas Redel, Ashraf Mohamed, Siemens
 Medical Solutions; Marc Horner, Ralf Kroeger, Robert
 Grossman, ANSYS, Inc.
- TA2b-2 Random Field Model for Cell Segmentation 10:40 AM in Transmission Mode Multispectral Microscopy Images

 Xuqing Wu, Shishir Shah, University of Houston
- TA2b-3 Compressive Sensing Method for Improved 11:05 AM Reconstruction of Gradient-Sparse Magnetic Resonance Images

 Cristiano Miosso, Ricardo von Borries, Joseph Pierluissi, University of Texas at El Paso
- TA2b-4 Generalized Pseudo-Polar Fourier Grids and 11:30 AM Applications in Registering Ophthalmic Optical Coherence Tomography Images Nigel Chou, Joseph Izatt, Sina Farsiu, Duke University
- TA2b-5 Multichannel Image Restoration Based on 11:55 AM Optimization of the Structural Similarity Index Maja Temerinac-Ott, Hans Burkhardt, University of Freiburg

Session TA3b Secure Communications

Chair: John Hershey, GE Research

- TA3b-1 The Gaussian Wiretap Channel with Noisy 10:15 AM Public Feedback: Breaking the High-SNR Ceiling Tung Kim, H. Vincent Poor, Princeton University
- TA3b-2 Secrecy Capacity Optimization under 10:40 AM Cooperation with Perfect Channel State Information Jiangyuan Li, Athina Petropulu, Steven Weber, Drexel University
- TA3b-3 Secrecy Capacity of Nakagami-m Fading 11:05 AM
 Wireless Channels in the Presence of Multiple
 Eavesdroppers
 Md. Zahurul Islam Sarkar, Tharmalingam Ratnarajah,
 Mathini Sellathurai, Queen's University Belfast
- TA3b-4 Two Edge Type LDPC Codes for the Wiretap 11:30 AM Channel

 Vishwambhar Rathi, Mattias Andersson, Ragnar
 Thobaben, Royal Institute of Technology; Jorg Kliewer,
 Klipsch School of Electrical and Computer Engineering;
 Mikael Skoglund, Royal Institute of Technology

Session TA4b Image and Video Enhancement/ Filtering

Chair: Manu Parmar, Stanford University

- TA4b-1 Image Matting From a Physical Perspective 10:15 AM Yuan Shen, Massachusetts Institute of Technology; Ramin Samadani, Mitchell Trott, Hewlett Packard
- TA4b-2 Compression-Aware Digital Pan/Tilt/Zoom 10:40 AM Mina Makar, Aditya Mavlankar, Bernd Girod, Stanford University
- TA4b-3 Low-light imaging solutions for mobile devices

 Marius Tico, Kari Pulli, Nokia

 11:05 AM
- TA4b-4 Bias Modeling for Image Denoising 11:30 AM Priyam Chatterjee, Peyman Milanfar, University of California, Santa Cruz
- TA4b-5 A case for denoising before demosaicking 11:55 AM color filter array data

 Sung Hee Park, Hyung Suk Kim, Steven Lansel, Manu
 Parmar, Brian Wandell, Stanford University

Session TA5b Image and Video Coding II

Chair: Christopher M. Brislawn, Los Alamos National Laboratory

- TA5b-1 A Framework for Perceptual Image Analysis 10:15 AM *Lakshman Prasad, Sriram Swaminarayan, Los Alamos National Laboratory*
- TA5b-2 A Motion Compensated Approach to Video 10:40 AM
 Quality Assessment
 Anush Moorthy, Alan Bovik, University of Texas at Austin
- TA5b-3 Multiple Description Coding of Multiview 11:05 AM Images

 Xiaoyu Xiu, Jie Liang, Simon Fraser University
- TA5b-4 Perceptual Video Quality Optimization in 11:30 AM AWGN Channel Using Low Complexity Channel Code Rate Allocation

 Ting-Lan Lin, Pamela Cosman, University of California, San Diego
- TA5b-5 Adaptive multithreaded H.264/AVC decoding 11:55 AM
 Henryk Richter, University of Rostock; Benno Stabernack,
 Fraunhofer Institut für Nachrichtentechnik; Erika Müller,
 University of Rostock

Session TA6b Adaptive Signal Processing III

Yves Tourneret, IRIT-ENSEEIHT

Co-Chairs: John Shynk, University of California, Santa Barbara and Suk-seung Hwang, Chosun University, Korea

TA6b-1 An Affine Combination of Two LMS 10:15 AM
Adaptive Filters - Statistical Analysis of an Error
Power Ratio Scheme
Neil Bershad, University of California, Irvine; Jose Carlos
Bermudez, Federal University of Santa Catarina; Jean-

TA6b-2	Adaptive signal processing techniques for clutter removal in radar-based navigation syst Yanfeng Liang, Harbin Engineering University; Wenwu Wang, Surrey University; Jonathon Chamb Loughborough University	
TA6b-3	Adaptive Channel Estimation Based on the MIMO-OFDM Preamble Suk-seung Hwang, Chosun University	11:05 AM
TA6b-4	Tracking Behvior of Adaptive Equalizers in Filtered Multitone Communication Systems <i>Pooyan Amini, Behrouz Farhang-Boroujeny, Univer of Utah</i>	11:30 AM
TA6b-5	Diffusion Distributed Kalman Filtering with Adaptive Weights Federico S. Cattivelli, Ali H. Sayed, University of California, Los Angeles	11:55 AM
Session	TA7b Computer Arithmetic I	
Chair: Mik	ke Schulte, University of Wisconsin-Madison	
TA7b-1	Performance of a RISC System Implementing Arithmetic Data Value Speculation Daniel Kelly, Braden Phillips, Said Al-Sarawi, Uniof Adelaide	
TA7b-2	Simplifying the Rounding for Newton-Raphson Algorithm with Parallel Remainder Calculation Daniel Piso Fernández, Javier Díaz Bruguera, Uni of Santiago de Compostela	10:40 AM
TA7b-3	Floating-Point Implementation of Complex Multiplication Earl E. Swartzlander, Jr., University of Texas at At Hani Saleh, Intel Corporation	11:05 AM
TA7b-4	A Combined Decimal and Binary Floating-point Divider Sonia González-Navarro, University of Málaga; Al Nannarelli, Technical University of Denmark; Cha Tsen, Michael Schulte, University of Wisconsin-Ma	rles
TA7b-5	Design and FPGA Implementation of Radix-10 Algorithm for Square Root with Lin	11:55 AM

Session TA8b1 Communication Systems I

Precision Primitives

Northridge

Chair: Bill Moran, University of Melbourne 10:15 AM - 11:55 AM

Milos D. Ercegovac, University of California, Los

Angeles; Robert McIlhenny, California State University

- TA8b1-1 EXIT Chart Analysis for the Bit-interleaved Turbo Frequency Domain Equalization under Fast Fading Environments Chantri Polprasert, James Ritcey, University of Washington
- TA8b1-2 Supertight Algebraic Bounds on Q(x) Giuseppe Abreu, University of Oulu

- TA8b1-3 Robust IEEE 802.15.4a Energy Detection Receiver Using Statistical Interference Modeling

 Manuel Flury, EPFL; Ruben Merz, Deutsche Telekom
 Laboratories: Jean-Yves Le Boudec, EPFL
- TA8b1-4 Robustness of Joint Bayesian Frequency Offset and Channel Estimation based on Basis Expansion Models Rami Khal, Junruo Zhang, Yuriy Zakharov, University of York
- TA8b1-5 Properties and Performance Bounds of Linear Analog Block Codes Matthias Rüngeler, Birgit Schotsch, Peter Vary, RWTH Aachen University
- TA8b1-6 On Channel-Based User Authentication for Mobile Terminals

 Jitendra Tugnait, Hyosung Kim, Auburn University
- TA8b1-7 Peak to Average Power Ratio Reduction of an OFDM Signal Using a Practical Selective Mapping Approach with Embedded Side-Information

 Benjamin Lee, Douglas L. Jones, Dilip V. Sarwate,
 University of Illinois at Urbana-Champaign
- TA8b1-8 A Novel Uplink Receiver for GSM/EDGE Systems with Orthogonal Sub Channel Feature

 Daniele Molteni, Monica Nicoli, Politecnico di Milano
- TA8b1-9 On The Suitability Of Bit Mappings To Outer Channel Codes In Iteratively-Decoded BICM

 Michael Samuel, Maged Barsoum, University of California, Los Angeles; Michael Fitz, Northrup

 Grumman
- TA8b1-10 On Linear Processing in AWGN Channels with Feedback Zachary Chance, David Love, Purdue University
- TA8b1-11 On the Queueing Delay of Cognitive Communications

 Amine Laourine, Shiyao Chen, Lang Tong, Cornell

 University
- TA8b1-12 Cell Hearability Analysis in UTRAN Long Term Evolution Downlink Alexandra Oborina, Helsinki University of Technology; Tero Henttonen, Nokia Oyi
- TA8b1-13 On the Application of BP Decoding to Convolutional and Turbo Codes.

 Ahmed Refaey-Ahmed, Sebastien Roy, Paul Fortier, Laval University
- TA8b1-14 Congenial Weighting for Interference Canceller with Convolutional Code

 Xueyuan Zhao, Zhengang Pan, Hong Kong Applied
 Science and Technology Research Institute (ASTRI);
 Roger S.K. Cheng, Hong Kong University of Science and
 Technology (HKUST); Vincent K.N. Lau, Hong Kong
 Applied Science and Technology Research Institute
 (ASTRI)

TA8b1-15 Sum Rate Increase with the Hybrid of Interference Cancellation and Busy Burst Interference Avoidance Sinan Sinanovic, University of Edinburgh; Gunther Auer, DoCoMo Euro-Labs; Harald Haas, University of Edinburgh		TP1a-4	Overlay Netwo	Based Routing for Service orks ne, Zbigniew Dziong, University of	2:45 PN	
TA8h1-16	Edinburgh Channel Estimation by Inference on Gaussian Markov	Session	ГР1b Rela	ay Networks		
111001 10	Random Fields			Lund University and Zbigniew	Dziong,	
	Thomas Riedl, Jun Won Choi, Andrew Singer, University of Illinois at Urbana-Champaign	University	of Quebec			
TA8b1-17		TP1b-1	Relay Systems Fayyaz Ahmed, M	McMaster University	3:30 PM	
	Baxley, Georgia Tech Research Institute; G. Tong Zhou, Georgia Institute of Technology	TP1b-2	Networks Usin	smission in Wireless Relay g Deterministic Modeling	3:55 PM	
TA8b1-18	On the Outage Performance of Relay Systems in Frequency Selective Fading Channels		Nicolas Schramn Technology	nar, Mikael Skoglund, Royal Instit	al Institute of	
	Qingxiong Deng, Andrew G. Klein, Worcester Polytechnic Institute	TP1b-3	Multihop Netw		4:20 PM	
Session 7	TA8b2 Communication Systems II			Davide Dardari, Universitá di Bolo o, Giuseppe Abreu, Oulun Yliopisi		
Chair: Bill	Moran, University of Melbourne 10:15 AM - 11:55 AM	TP1b-4		ization Allocation For	4:45 PM	
TA8b2-1	Spline-based Spectrum Cartography for Cognitive Radios		Amplify-Weight-And-Forward Cooperative Link Harish Ganapathy, Constantine Caramanis, University Texas at Austin			
	Gonzalo Mateos, Juan-Andrés Bazerque, Georgios B. Giannakis, University of Minnesota	Session	ГР2а Rea	ding the Brain Decod	ling	
TA8b2-2	Optimized Differential Bluetooth Demodulator		Per	ception and Cognition		
	Bo Yu, Liuqing Yang, University of Florida; Chia-Chin Chong, DoCoMo USA Labs	Chair: Luc	as Parra, City Co	ollege CUNY		
TA8b2-3	Jamming Mitigation Based on Coded Message-Driven Frequency Hopping Huahui Wang, Tongtong Li, Michigan State University	TP2a-1	parietal and fro	nitive state variables from ontal cortex Basma Radwan, Boris Revechkis, N	1:30 PN New	
TA8b2-4	Delay-Throughput Trade-off With Opportunistic	TTD2 2	York University		1.55 D)	
	Relaying in Wireless Networks Yufeng Wang, Shengshan Cui, Alexander Haimovich, New Jersey Institute of Technology	TP2a-2	experiences fro	nstruction of perceptual om human brain activity is, Ryan Prenger, Kendrick Kay, M	1:55 PM Aichael	
Session 7	TP1a Network Design		Oliver, Jack Gali	lant, University of California, Ber	keley	
University	: Michael Pioro, Lund University and Zbignew Dziong, of Quebec	TP2a-3	memory traces Demis Hassabis,	gram: decoding episodic from signals in the hippocamp Martin Chadwick, Nikolaus Weis e, University College London		
TP1a-1	A Multi-Objective Approach for Joint 1:30 PM Throughput and Traffic Engineering Optimization in WDM Networks Jorge Crichigno, C. Xie, Wei Shu, University of New Mexico; Min-You Wu, Shanghai Jiao Tong University; Nasir Ghani, University of New Mexico	TP2a-4	Modeling moto coordinate-base Angela Laird, Ko of Texas Health S Price, Texas Stat	or learning connectivity using ed meta-analysis and TMS/PE arl Li, Shalini Narayana, Universi Science Center San Antonio; Larr te University; Robert Laird, St. Ma r Fox, University of Texas Health	ty y ary's	
TP1a-2	Online Impairments-aware Routing within a 1:55 PM Path Computation Element Fernando Solano, Mateusz Zotkiewicz, Warsaw University of Technology		Center San Anton			

2:20 PM

Minimization of Label Usage in (G)MPLS

Artur Tomaszewski, Michal Pioro, Lund University

TP1a-3

Network

Session '	TP2b	Neural Signal Processing		TP3-6		te Regions for the MISO IFC	3:55 PM
Chair: Kar	rim Oweis.	s, Michigan State University				indblom, Eleftherios Karipidis, Erik G. nköping University	
TP2b-1	role of h neurons Mehdi Aş Michigan	graph-based approach to identify the higher-order interaction between cortical in stimulus coding ghagolzadeh, Seif Eldawlatly, Karim Oweiss, a State University		TP3-7	60GHz UV Jia (Jasmin Ahmadi-Sho University o	d Compressive Sampling ADC for WB Communication e) Meng, University of Houston; Javad okouh, University of Manitoba; Husheng of Tennessee; E. Joe Charlson, Zhu Han, of Houston; Sima Noghanian, University of Company of Company (1988).	
TP2b-2	Populati Dong Son Southern Theodore	ar Dynamic Modeling of Neural ion Activity for Hippocampal Prosthese ng, Rosa Chan, Vasilis Marmarelis, Universi California; Robert Hampson, Sam Deadwyl & Berger, Wake Forest University	ity of er,	TP3-8	Nonlinear Co-Band I	ta; Ekram Hossain, University of Manitor Spreading for Communications in nterference Channels axley, Brett T. Walkenhorst, Georgia Tech stitute	4:45 PM
TP2b-3		Proximity based Subspace position for Movement Direction Decode	4:20 PM	Session '		Detection and Estimation II	
	of Local	Field Potentials			vid Ohm, Zet	a Associates	
	Tewfik, N Universi	itya Tadipatri, B. Vikrham Gowreesunker, Al luri F. Ince, James Ashe, Giuseppe Pellizzer, ly of Minnesota		TP4-1	Compensa	rce Separation with Low Frequency tion for Convolutive Mixtures	1:30 PM
TP2b-4		Control Points Image: A Novel Shape ntation Approach for Medical Imaging	4:45 PM			hu, Keshab K. Parhi, Warren J. Warwick of Minnesota, Twin Cities	
	Dajiang . Northwe	Zhu, University of Georgia; Kaiming Li, Lei stern Polytechnical University; Tianming Liu ty of Georgia		TP4-2	Despreade Suk-seung F	Hwang, Chosun University; John J. Shynk	1:55 PM
Session '	TP3	Wideband Communications	and	TP4-3		of California, Santa Barbara ic MIMO Radar With Distributed	2:20 PM
Chair: Jam	nie Evans,	Interference Management University of Melbourne		114-3	Antennas f	for Target Detection ogineni, Arye Nehorai, Washington Unive	
TP3-1	Algorith	alized Multi-Level Water-Filling nm for Dynamic Spectrum Management A. <i>Chowdhery, J. M. Cioffi, Stanford Univers</i>		TP4-4	Emitter Lo Estimation	ocation Via Joint 3-D Parametric 1, Zeta Associates, Inc.; S.Lawrence Marp.	2:45 PM
TP3-2	Mitigati	rming Design for Interference on in MIMO Wireless Networks arwal, Stanford University	1:55 PM			te University	3:10 PM
TP3-3	Minimu Alignmo David Sc	m Mean Squared Error Interference ent hmidt, Technical University of Munich; Cha.	2:20 PM	TP4-5	GPS Signa	Maximum Likelihood Estimator for al Angle of Arrival Tenneman, Yu Tong Morton, Miami Unive	3:30 PM
		lall Berry, Michael Honig, Northwestern y; Wolfgang Utschick, Technical University	of	TP4-6	Bearing Es	Element Positional Errors on stimation for Undersea Bottom Mour	3:55 PM ated,
TP3-4	Convert	Post-Processing for Reducing A/D er Nonlinear Distortion in Wideband Ra	2:45 PM adio		Linear Sor John Cochr Dartmouth	nar Arrays an, Igal Bilik, University of Massachusett	S,
		is Allen, Jaakko Marttila, Mikko Valkama, Tam y of Technology	pere	TP4-7	Visual App	Censusing via Geophone Arrays: A proach for Linear Arrays andler, Ozgur Izmirli, Connecticut Colley	4:20 PM
TD2 5	BREAK		3:10 PM		Caitlin O'C	onnell-Rodwell, Stanford University; Jasa Whale Museum	
TP3-5	User Ga Splitting Maximili	an Riemensberger, Ines Abdelghani, Johann lfgang Utschick, Technische Universität	3:30 PM es	TP4-8	Derived Fi Joseph Schv	ormance Using Covariance Matrices rom Spatial Spectra For Large Arrays warzwalder, Argon ST, Inc.; Kathleen Wa son University	3

Session	TP5 MIMO Radar		TP6a-4	Phonetically Switched Tree Coding of speech 2:45 PM
Chair: Ric	k Blum, Lehigh University			with a G.727 Code Generator Jerry Gibson, Pravin Ramadas, University of California,
TP5-1	On MIMO Radar Transmission Schemes for Ground Moving Target Indication Ming Xue, Duc Vu, Luzhou Xu, Jian Li, University of Florida; Petre Stoica, Uppsala University	1:30 PM	TP6a-5	Santa Barbara Generalized Triangular Transform Coding 3:10 PM Ching-Chih Weng, Chun-Yang Chen, P. P. Vaidyanathan, California Institute of Technology
TP5-2	Finite-sample Optimal Joint Target Detection	1:55 PM	Session	TP6b Computational Photography
	and Parameter Estimation by MIMO Radars Ali Tajer, Guido Jajamovich, Xiaodong Wang, Georg Moustakides, Columbia University	e		deep Sen, University of New Mexico
TP5-3	Target Tracking in Widely Separated Non-coherent Multiple-Input Multiple-Output	2:20 PM	TP6b-1	Restoration of Images Captured with 3:30 PM Combined Conventional and Plenoptic Camera Pradeep Sen, Viktor Chekh, UNM Advanced Graphics Lab
	Radar Systems Ruixin Niu, Syracuse University; Rick Blum, Lehigh University; Pramod Varshney, Syracuse University;		TP6b-2	New Results on the Plenoptic 2.0 Camera 3:55 PM Todor Georgiev, Adobe
TP5-4	Andrew Drozd, ANDRO Computational Solutions A MIMO Radar System Approach to Target Tracking	2:45 PM	TP6b-3	Visual Summaries of Popular Landmarks 4:20 PM from Community Photo Collections Wei-Chao Chen, Agathe Battestini, Natasha Gelfand, Vidya Setlur, Nokia Research Center
	Hana Godrich, Alexander Haimovich, New Jersey Insof Technology; Rick Blum, Lehigh University BREAK	3:10 PM	TP6b-4	A Gradient Domain Object Editing Approach 4:45 PM and Its Implementation on Mobile Device Yingen Xiong, Kari Pulli, Nokia Research Center
TP5-5	Exploiting Correlation in MIMO radar with	3:30 PM	Session	TP7 Communication Processors and
	Angular Diversity Tuomas Aittomäki, Visa Koivunen, Helsinki Universit	ty of		Accelerators
ED5 6	Technology	2.55 DM	Chair: Joe	Cavallaro, Rice University
TP5-6	Range And Doppler Estimation In Distributed MIMO Radar Yao Yu, Athina Petropulu, Drexel University; H. Vinc Poor, Princeton University; Thomas PY. Yu, Drexe		TP7-1	Design of a Cooperative OFDM Transceiver 1:30 PM Patrick Murphy, Christopher Hunter, Ashutosh Sabharwal, Rice University
TP5-7	University Spatial Coherence of Targets in MIMO Radar	4:20 PM	TP7-2	Receiver Implementation for MIMO-OFDM 1:55 PM with AMC and Precoding Johanna Ketonen, Markku Juntti, University of Oulu
	Applications Alexander M. Haimovich, New Jersey Institute of Technology; Rick S. Blum, Lehigh University		TP7-3	Trends and Challenges in LDPC Hardware 2:20 PM Decoders
TP5-8	Noncoherent versus Coherent MIMO Radar:	4:45 PM		Tinoosh Mohsenin, Bevan Baas, University of California, Davis
	Simplicity with little loss for Sufficient Number Antennas Qian He, Rick S. Blum, Lehigh University	rs of	TP7-4	Low Error Rate LDPC Decoders 2:45 PM Zhengya Zhang, Borivoje Nikolic, Venkat Anantharam, Martin Wainwright, Brian Richards, University of
Session	TP6a Speech Coding			California, Berkeley
Chair: Ma	rios S. Pattichis, University of New Mexico			BREAK 3:10 PM
TP6a-1	A Speech Packet Loss Concealment Algorithm Using Real-time Speech Quality Measurement and Redundancy Coding Jin Ah Kang, Hong Kook Kim, Gwangju Institute of Science and Technology	1:30 PM	TP7-5	Polyphase Channelizer Performs Sample Rate 3:30 PM Change Required for both Matched Filtering and Channel Frequency Spacing fredric harris, San Diego State University; Chris Dick, Xilinx
TP6a-2	Analysis of Wyner-Ziv Quantizers for Packet Loss Manohar N. Murthi, Shaminda Subasingha, Universit Miami	1:55 PM	TP7-6	Tunable N-Path Mismatch Shaping for 3:55 PM Multibit Bandpass Delta-Sigma Modulators Waqas Akram, Earl Swartzlander, University of Texas at Austin

TP7-7	MIMO Accelerator: Programmable MIM Karim Mohammed, Mo University of Californi	O Decoder A phamed Ali, Bai	rchitecture	4:20 PM	
TP7-8	Rapid Direct Sequence Spread Spectrum 4:45 PM Code Synchronization using a Complex Matched Filter on an FPGA Michael A. Koets, Michael D. Lillywhite, Larry T. McDaniel, Meredith Beveridge Lecocke, Southwest Research Institute				
Session	TP8a1 Array a	nd Statisti	cal Signal		
	Processi	ing I			
Chair: Hai	ry Schmitt, Raytheon	Company	1:30 PM	- 3:10 PM	
TP8a1-1	Greedy Sparse Signa Measurements Petros Boufounos, Mit- Laboratories, Inc.			n	
TP8a1-2	Recovering Tensor I via Compressive Sar Jason Holloway, Carm	mpling	-		
TP8a1-3	Multiband Chirp Syr FMCW Radar Jason Yu, Jeffrey Kroli		1 7 11	ped	
TP8a1-4	Simultaneous Gratin a Line Array of Vec Henry Cox, Hung Lai,	tor Sensors	3	ction with	
Session	TP8a2 Array a	nd Statisti	cal Signal		
	Processi	ing II			
Chair: Hai	ry Schmitt, Raytheon	Company	1:30 PM	- 3:10 PM	

- TP8a2-1 **Extraction of Time-Frequency Target Features** Tobias Oesterlein, Chensong He, Jorge Quijano, Richard Campbell Jr., Lisa Zurk, Martin Siderius, Portland State University
- TP8a2-2 Target Tracking via a Sampling Stack Approach Hossein Roufarshbaf, Jill Nelson, George Mason University
- TP8a2-3 A Distributed Sensor Fusion Algorithm for the Inversion of Sparse Fields Aurora Schmidt, José M. F. Moura, Carnegie Mellon University
- TP8a2-4 Distributed average consensus: Beyond the realm of linearity Usman Khan, Soummya Kar, Jose' Moura, Carnegie Mellon University

Session TP8a3 Adaptive Signal Processing IV

Chair: Victor DeBrunner, Florida State University 1:30 PM - 3:10 PM

- TP8a3-1 An Unbiased Explicit Adaptive Gain and Time-delay Estimation Algorithm Bernard Levy, University of California, Davis
- TP8a3-2 Convergence Analysis of a Frequency Domain Adaptive Filter with Constraints on the Output Weights Walter Kozacky, Tokunbo Ogunfunmi, Santa Clara University
- TP8a3-3 Improving Adaptive Tracking in Time-Frequency Plane Using Varying Number of Adaptive Notch Filters Hieu Thai, Minh Ta, Victor DeBrunner, Florida State University
- TP8a3-4 A new prewhitening-based adaptive filter which converges to the Wiener-solution Øyvind Lunde Rørtveit, John Håkon Husøy, University of Stavanger
- TP8a3-5 Fault Tolerant Fermat Number Transform Domain Adaptive Filters Based on Modulus Replication RNS Architectures Chandrashekar Radhakrishnan, Kenneth Jenkins, Pennsylvania State university
- TP8a3-6 A Strict Stability Limit for Adaptive Gradient Type Algorithms Robert Dallinger, Markus Rupp, Vienna University of Technology
- TP8a3-7 Factor Graphs for Universal Portfolios Andrew Bean, Andrew Singer, University of Illinois at Urbana-Champaign
- TP8a3-8 Blind Adaptive Equalizer For Broadband MIMO Time Reversal STBC Based on PDF Fitting. Adel Daas, Samir Bendoukha, Stephan Weiss, University of Strathclyde

Session TP8b1 MIMO Communications I

Chair: Benjamin Friedlander, University of California, Santa Cruz 3:30 PM - 5:10 PM

- TP8b1-1 Optimal Detection for STBC MIMO systems in spatially correlated Rayleigh Fast Fading Channels with Imperfect Channel Estimation Junruo Zhang, Yuriy Zakharov, Rami Khal, University of York
- TP8b1-2 MIMO Receive Switched Diversity with Imperfect Channel Cihan Tepedelenlioglu, Adarsh Bangalore Narasimhamurthy, Arizona State University
- Blind MIMO Using the Golden Code TP8b1-3 M. Rezk, B. Friedlander, University of California, Santa Cruz

TP8b1-4	Parametric Compression of Rank-1 Analog Feedback in	Session 7	ΓΡ8b2 MIMO Communications II
	MIMO-OFDM Ron Porat, Phil Orlik, Mitsubishi Electric Research Laboratories, Inc.	Chair: <i>Lee PM - 5:10</i>	Swindlehurst, University of California, Irvine 3:30 PM
TP8b1-5	A Simplified Channel Model for MIMO Communications with Polarization Xiayu Zheng, Erik Lindskog, PureWave Networks, Inc.	TP8b2-1	Performance of Different User Selection Algorithms for Transmit Power Minimization <i>Umer Salim, Dirk Slock, Eurecom</i>
TP8b1-6	Fair User Selection for Zero-Forcing Precoding in Multi- User SIMO Systems Nicolas Schrammar, Royal Institute of Technology; Peter A. Hoeher, University of Kiel	TP8b2-2	Weighted Sum Rate Maximization in the MIMO MAC with Linear Transceivers: Algorithmic Solutions Christian Guthy, Wolfgang Utschick, Raphael Hunger, Michael Joham, Technische Universität München
TP8b1-7	On Full Diversity Equalization for Precoded Block Transmission Systems Shakti Prasad Shenoy, Eurecom; Irfan Ghauri, Infineon Technologies France; Dirk T.M Slock, Eurecom	TP8b2-3	User Selection in Multiuser MIMO Systems with Secrecy Considerations Amitav Mukherjee, A. Lee Swindlehurst, University of California, Irvine
TP8b1-8	Single and Multiple Antennas Alamouti Receivers for the Reception of Real-Valued Signals Corrupted by Interferences – the Alamouti-SAIC/MAIC Concept Pascal Chevalier, Florian Dupuy, Thales-Communications	TP8b2-4	Iterative Linear MMSE Transmit and Receive Strategies for Cellular MIMO Networks Ralf Bendlin, Yih-Fang Huang, University of Notre Dame; Michel T. Ivrlac, Josef A. Nossek, Munich University of
TP8b1-9	Throughput and Capacity of MIMO WiMAX Christian Mehlführer, Sebastian Caban, Vienna University of Technology; José Antonio García Naya, University of A Coruña; Markus Rupp, Vienna University of Technology	TP8b2-5	Technology Optimization of Computational Resource Allocation for Soft MIMO-detection Using Partial Marginalization Mirsad Cirkic, Daniel Persson, Erik G. Larsson,
TP8b1-10	Linear Precoders for Multiuser MIMO for finite constellations and a simplified receiver structure under controlled interference Rizwan Ghaffar, Raymond Knopp, Eurecom	TP8b2-6	Linköping University OFDMA Downlink Resource Allocation via ARQ Feedback Rohit Aggarwal, Ohio State University; Mohamad Assaad,
TP8b1-11	Codebook-based Quantized MIMO Feedback for Closed- Loop Transmit Precoding		Supelec; C. Emre Koksal, Philip Schniter, Ohio State University
	Man-On Pun, Ron Porat, Philip Orlik, Jinyun Zhang, Mitsubishi Electric Research Laboratories, Inc.; Toshiyuki Kuze, Mistubishi Electric	TP8b2-7	Kalman Filter-based Channel Estimation for Amplify and Forward Relay Communications Xiangyun Zhou, Tharaka Lamahewa, Parastoo Sadeghi,
TP8b1-12	Optimal OSTBC sequence detection over unknown correlated fading channels Dimitris Papailiopoulos, George Karystinos, Technical University of Crete	TP8b2-8	Australian National University Distributed Gain Matrix Optimization in Non-Regenerative MIMO Relay Channels Raphael Rolny, Jörg Wagner, Celal Esli, Armin
TP8b1-13	Performance and Complexity Tradeoffs of Space-Time Modulation and Coding Schemes Nicholas Chang, Adam Margetts, Andrew McKellips, MIT Lincoln Laboratory	TP8b2-9	Wittneben, Swiss Federal Institute of Technology Zurich Spatial Loop Interference Suppression in Full-Duplex MIMO Relays Taneli Riihonen, Stefan Werner, Risto Wichman, Helsinki
TP8b1-14	Reduced-Complexity LLL Algorithm for Lattice- Reduction-Aided MIMO Detection Chun-Fu Liao, Yuan-Hao Huang, National Tsing-Hua University	TP8b2-10	University of Technology Spectrum Efficient Cooperative Relaying based on Outage-Multiplexing Tradeoff Analysis Youngwook Ko, Sergiy Vorobyov, Masoud Ardakani,
TP8b1-15	Mutual Information Bounds for MIMO Channels under Imperfect Receiver CSI Adriano Pastore, Michael Joham, Technical University of Munich	TP8b2-11	University of Alberta Power Allocation for Irregularly Modulated MIMO Signaling with Iterative Frequency Domain Detector Juha Karjalainen, Antti Tölli, Marian Codereanu, Markku
TP8b1-16	A Scheme for Fully Polarimetric Multi-user Detection Songsri Sirianunpiboon, Stephen D. Howard, Defence Science and Technology Organisation; A. Robert	TP8b2-12	Juntti, Tad Matsumoto, University of Oulu The Geometry of the MIMO Broadcast Channel Rate Region Under Linear Filtering at High SNR

Calderbank, Princeton University

3:30

Region Under Linear Filtering at High SNR

Raphael Hunger, Paul de Kerret, Michael Joham,

Technische Universität München

TP8b2-13	13 Weighted Sum Rate Maximization in the MIMO MAC with Linear Transceivers: Asymptotic Results Raphael Hunger, Michael Joham, Christian Guthy, Wolfgang Utschick, Technische Universität München		WA1-8	Receive Quadrat Phillip P	Folding Analog-to-Information r:Autonomous Information Recovery User Mirror Filtering face, Naval Postgraduate School; Gerald Files	
TP8b2-14	Performance Analysis of Relay Channel Estimation Panagiota Lioliou, Mats Viberg, Chalmers University of Technology, Mikael Coldrey, Ericsson research		Session		Cusmanoff, L-3 Communications Functional Imaging	
TP8b2-15	On the Diversity-Multiplexing Tradeoff of M	ultiuser	Chair: Vin	ce Calhou	n, U. of New Mexico	
TTD01.0.1.6	Amplify & Forward Multihop Networks Joerg Wagner, Armin Wittneben, Swiss Federal Ins of Technology Zurich	titute	WA2a-1	Cortical	ion of MEG, EEG, MRI, and fMRI: ly constrained estimates of transient are ory activity	8:30 AM
TP8b2-16	Optimal DMT of Dynamic Decode-and-Forw Protocol on a Half-Duplex Relay Channel Wi Number of Antennas at Each Node Sanjay Karmakar, Mahesh K. Varanasi, University Colorado at Boulder	th Arbitrary	WA2a-2	Examin: Function	Hämäläinen, Massachusetts General Hospi ing the Relationship between Brain n and Structure on Voxel-by-Voxel-Ba ayasaka, Wake Forest University	8:55 AM
Session '	WA1 Sparse Representations and Compressive Sensing	I	WA2a-3	Brain in	ity and Magnetism: Two views of the Action hen, UCLA School of Medicine	9:20 AM
Chair: Reb	ecca Willett, Duke University		WA2a-4	MEG ar	nd fMRI for nonlinear estimation of	9:45 AM
WA1-1	Sparse Online Learning via Truncated Gradient John Langford, Lihong Li, Yahoo! Research; Tong	8:30 AM Zhang,			CUVILY 1. Plis, Terran Lane, University of New Mex P. Weisend, Vince D. Calhoun, MIND Rese	
	Rutgers University		Session	WA2b	Computer Aided Diagnosis	
WA1-2	Compressive Distilled Sensing: Sparse Recovery using Adaptivity in Compressive	8:55 AM	Chair: Fre	d Ham, Fl	lorida Institute Technology	
	Measurements Jarvis Haupt, University of Wisconsin; Rui Castro, Columbia University; Robert Nowak, University of Wisconsin-Madison		WA2b-1	nonsepa	ng of medical imagery using a irable third-order statistical approach Kozaitis, Tim Young, Florida Institute of	10:30 AM
WA1-3	Signal recovery from corrupted measurements Jason Laska, Mark Davenport, Richard Baraniuk, I University		WA2b-2	Transier Laser D	nt Radiation Modeling of Short-Pulse etection of Tumors in Animal Model	
WA1-4	Group Testing Strategies for Recovery of Sparse Signals in Noise	9:45 AM			du Pal, Pennsylvania State University; Ami. Kunal Mitra, Michael Grace, Florida Institi 18y	
	Mark Iwen, University of Minnesota BREAK	10:10 AM	WA2b-3	Blast Tr	ion and Analysis of Blast Waves for rauma and Injury Research firk, Florida Institute of Technology	11:20 AM
WA1-5	Computationally Efficient Sparse Bayesian Learning via Belief Propagation Xing Tan, Jian Li, University of Florida	10:30 AM	WA2b-4	Multisli	tation of Airway Trees from ce CT using Fuzzy Logic g Tan, Toshiyuki Tanaka, Keio University;	11:45 AM
WA1-6	A Multi-Sensor Compressed Sensing Receiver: Performance Bounds and Simulated	10:55 AM I		Hidetosh	i Nakamura, Tokyo Electric Power Hospita rahata, Hiroaki Sugiura, Keio University	l;
	Results Benjamin Miller, Joel Goodman, Keith Forsythe, M Lincoln Laboratory; John Z. Sun, Vivek K Goyal, Massachusetts Institute of Technology	IIT	Session		OFDM and MIMO for Opti Wireless	cal
WA1-7	Robust Sparsity Pattern Recovery	11:20 AM	Chair: Jea	n Armstro	ng, Monash University	
	Galen Reeves, Michael Gastpar, University of Cali Berkeley	fornia,	WA3-1	receptio Aniceto I	nental limits of diversity coherent on on atmospheric optical channels Belmonte, Technical University of Catalonic Cahn, Stanford University	8:30 AM <i>ı</i> ;

WA3-2	Spatial Multiplexing and Diversity Techniques for Multiple Element Optical Wire	8:55 AM		BREAK		10:10 AM
	Links Mohamed D.A. Mohamed, Steve Hranilovic, McMass University		WA4-5	Time Rev Nicholas (n of Structural Defects in Pipes using versal of Guided Waves D'Donoughue, Joel Harley, José M.F. M	oura,
WA3-3	Non-pilot based synchronization for ACO-OFDM	9:20 AM	WAAA	Maryland	Mellon University; Yuanwei Jin, Univers Eastern Shore	
WA3-4	Sarah Kate Wilson, Santa Clara University Multi-Input Multi-Output (MIMO) indoor optical wireless communications Dominic O'Brien, University of Oxford	9:45 AM	WA4-6	Scales: A Electrom Norma Pa	g Dynamics on Multiple Time Hybrid Approach for Cluttered agnetic Data wley, Kary Myers, John Galbraith, Steve os Alamos National Laboratory	10:55 AM
	BREAK	10:10 AM	WA4-7		ased Emitter Location Estimator wit	h 11:20 AM
WA3-5	Papr Reduction for Beamforming OFDM Via Constellation-Beam Modification Kuang Xu, Douglas L. Jones, University of Illinois at				Trajectory Optimality Mark L. Fowler, State University of New on	York at
	Urbana-Champaign		WA4-8		nnel Parametric Rao Test in Partially	y 11:45 AM
WA3-6	Adaptive Coding and Modulation for Hybrid FSO/RF Systems Yi Tang, Maite Brandt-Pearce, Stephen Wilson, Univ			Pu Wang,	neous Environment Hongbin Li, Stevens Institute of Technol imed, Air Force Research Laboratory	ogy;
	of Virginia	<i>c.s.</i> ,	Session	WA5	MIMO Communications: N	Network
WA3-7	communications using ACO-OFDM	11:20 AM	Chaire Dar	n Dlina MI	Issues and Implications	
WA3-8	Jean Armstrong, Monash University	11:45 AM			Lincoln Laboratory	
WA3-0	Joint Power Control, Beamforming and BS Assignment for Optimal SIR Assignment Yosia Hadisusanto, Volker Jungnickel, Lars Thiele, Fraunhofer German-Sino Lab for Mobile Communic		WA5-1	Network	Windowing in MIMO OFDM for Interference Suppression opeland, Daniel Bliss, Andrew McKellip aboratory	8:30 AM s, <i>MIT</i>
Session	WA4 Estimation and Detection I		WA5-2		PHY Cross-Layer Approach to	8:55 AM
Chair: Ne	il Patwari, University of Utah			HOC Net		
WA4-1	A Novel Autofocusing Approach for Estimating Directions-of-Arrival of Wideband Signals	8:30 AM		Los Angelo	lan, Babak Daneshrad, University of Ca. es; Jae Kim, The Boeing Company; Injor on, North Carolina State University	
	Piya Pal, P. P. Vaidyanathan, California Institute of Technology		WA5-3		sion Capacity of Multiple Antenna Networks without Channel State	9:20 AM
WA4-2	Spectral Estimation for Clutter Processing in Digital Radars by Dimension-Adaptive Particle Swarm Optimization (DA-PSO)	8:55 AM		Cancelati	on at the Transmitter and Interferen on at the Receiver e, Robert Heath, University of Texas at A	
	Lisa Osadciw, Yanjun Yan, Syracuse University	0.00 13.6	WA5-4	Exploitin	g Multiple Antennas in Overlaid Spatial Networks	9:45 AM
WA4-3	Region-of-Importance Detection Based on Fusion of Audio and Video <i>Tao Wu, Cuong Vu, Qi Cheng, Damon Chandler,</i>	9:20 AM			ountouris, Supelec; Jeffrey Andrews, Uni	versity
	Oklahoma State University	0.45.13.5		BREAK		10:10 AM
WA4-4	Adaptive Learning for Damage Classification in Structural Health Monitoring Debejyo Chakraborty, Narayan Kovvali, Antonia Papandreou-Suppappola, Aditi Chattopadhyay, Ariza State University	9:45 AM ona	WA5-5	in Ad-Ho Siddhartar Engineerir	Efficiency of Multi-Antenna Links or Wireless Networks with Limited and Govindasamy, F. W. Olin College of ang; Daniel W. Bliss, MIT Lincoln Labora Staelin, Massachusetts Institute of Techn	ntory;
			WA5-6	Networks	ng, A. Lee Swindlehurst, University of	10:55 AM

WA5-7	Compress-Forward Relaying With Quantized 11:20 AN Channel State Feedback Sha Yao, Mikael Skoglund, Royal Institute of Technology	M WA7-2	Design and Evaluation of Decimal Array 8:55 AM Multipliers Saeid Gorgin, Ghassem Jaberipur, Shahid Beheshti
WA5-8	Diversity-Multiplexing-Delay Tradeoff of a 11:45 ANDDF Protocol on a Half-Duplex ARQ Relay	M	University; Behrooz Parhami, University of California, Santa Barbara
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WA6a-1	A Blind Algorithm for Recovering Articulator 8:30 Al Positions from Acoustics John Hogden, Los Alamos National Laboratory		BREAK 10:10 AM
WA6a-2	The Geometry of the Articulatory Region 8:55 Al That Produces a Speech Sound	M WA7-5	Digital/Analog Arithmetic with 10:30 AM Continuous-Valued Residues Behrooz Parhami, University of California, Santa Barbara
WA6a-3	Chao Qin, Miguel Carreira-Perpinan, University of California, Merced On a SturmLiouville Framework for 9:20 Al	WA7-6	CORDIC Instruction Set Extensions for 10:55 AM Matrix Decompositions on Software Defined Radio
w Aoa-3	Continuous and Discrete Frequency Modulation Balu Santhanam, University of New Mexico	11	Processors Murugappan Senthilvelan, Sandbridge Technologies; Mihai Sima, University of Victoria; Daniel Iancu,
WA6a-4	Probabilistic state mapping as a model for speech production 9:45 All		Sandbridge Technologies; Javier Hormigo, University of Málaga; Michael Schulte, University of Wisconsin
Coastan	Kaustubh Kalgaonkar, Mark Clements, Georgia Institute of Technology	WA7-7	Function Approximation based on Estimated 11:20 AM Arithmetic Operators Arnaud Tisserand, IRISA, CNRS-Univ. Rennes
Session		WA7-8	Low Precision Table Based Complex 11:45 AM
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	Recognition Yoo Rhee Oh, Hong Kook Kim, Gwangju Institute of	Session	·
WA6b-2	Science and Technology Time-Frequency Correlation Based 10:55 AM		Beamforming for Next Generation Wireless
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WA6b-4	Re-estimation of Linear Predictive Parameters 11:45 Al in Sparse Linear Prediction Daniele Giacobello, Aalborg University; Manohar Murthi, University of Miami; Mads Græsbøll Christensen, Søren Holdt Jensen, Aalborg University; Marc Moonen, Katholieke Universiteit Leuven	M WA8-2	A Dynamic Spectrum Leasing (DSL) 8:55 AM Framework for Spectrum Sharing in Cognitive Radio Networks Sudharman Jayaweera, University of New Mexico; Carlos Mosquera, Universidad de Vigo
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Chair: <i>Bra</i>	den Phillips, University of Adelaide		Heterogenous Wireless Networks Amitav Mukherjee, University of California, Irvine
WA7-1	Implementation of Recursive Ling Adders Neil Burgess, University of Bristol 8:30 AN	M	

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WA8-7	CDF of the Spectral-Efficiency of A Simple Distributed Channel Assignment Algorithm in Spatially Distributed Wireless Networks Siddhartan Govindasamy, Elena Koukina, F. W. Olin College of Engineering	11:20 AM
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TP1b-3	Gao, Kanke	
TA7b-2	García Naya, José Antonio	
TP7-5	Gastpar, Michael	
MA4-6	Gastpar, Michael C	
MA6-6	Gelfand, Natasha	
MA8b1-3	Georgiev, Todor	
MP3-8	Gervaise, Cedric	
WA7-8	Ghaffar, Rizwan	IP8b1-10
MA6-4	Ghani, Nasir	IP1a-1
MP8a-6	Ghauri, Irfan	
TP5-3	Ghauri, Irfan	
MA8b2-4	Giacobello, Daniele	
MA3-3	Giannakis, G. B	
MP5-4	Giannakis, Georgios B	
TP8b1-8	Giannakis, Georgios B	
TP1a-4 MP1b-4	Gibson, Jerry	
MA1a-4	Gibson, JerryGirod, Bernd	
TP2b-1		
MP7b-5	Glover, Joseph	IVIA I D-3
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vvA7-o TA7b-5	Goldenbaum, Mario	
MP7b-5	González-Navarro, Sonia	TA7h 1
MA2b-3	Goodman, Joel	
WA8-4	Gorgin, Saeid	WAT-0
MA4-6	Goswami, Tathagata D	
MA8a1-6	Govindasamy, Siddhartan .	
MA8a1-8	Govindasamy, Siddhartan.	
TP8b2-8	Gowreesunker, B. Vikrham	
MA8b1-3	Goyal, Vivek K	
MA2a-3	Grace, Michael	
MP2-9	Grant, Steven	
MP5-8	Grant, Steven L	
MA8b1-9	Grant, Steven L.	MP6-1
uzTA6b-4	Grossman, Robert	
TA2b-4	Gunther, Jacob	
MA6-2	Gunther, Jake	
TA8b1-9	Guo, Lei	
TA8b1-3	Guo, Rui	
MP8a-13	Guo, Shengwen	
WA1-6	Guo, Wenxuan	
TA8b1-13	Gupta, Rahul	
WA4-7	Gustafsson, Oscar	
TP2a-4	Gustafsson, Oscar	
MA2b-4	Gustafsson, Oscar	
TP8b1-3	Guthy, Christian	
MP2-2	Guthy, Christian	

NAME Haas, Harald	SESSION	NAME Husøy, John Håkon	SESSION TP8a3-4
Hadisusanto, Yosia		Hwang, Suk-seung	
Haimovich, Alexander		Hwang, Suk-seung	
Haimovich, Alexander		lancu, Daniel	
Haimovich, Alexander M.		Ince, Nuri F	
Haimovich, Alexander M.		Ince, Nuri F	
Hämäläinen, Matti S		Ioana, Cornel	
Hampson, Robert		Iqbal, Mohammad Asif	
Han, Zhu		Ives, Robert	
Hansen, John		Ivrlac, Michel T	
Harley, Joel		Iwen, Mark	
harris, fredric		Izatt, Joseph	
Hassabis, Demis		Izmirli, Ozgur	
Hassan, Khursheed		Jaberipur, Ghassem	
Hattig, Myron		Jafar, Syed Ali	
Haupt, Jarvis		Jafarian, Amin	
Hayar, Aawatif		Jafarpour, Sina	
Hayasaka, Satoru		Jajamovich, Guido	
He, Chensong		Jakobsson, Andreas	
He, Hao		Jayaram, Vikram	
He, Hao		Jayaweera, Sudharman	
He, Jinjin		Jeannerod, Claude-Pierre	
He, Qian		Jenkins, Kenneth	
Heath, Robert		Jensen, Jesper Rindom	
Heath, Robert		Jensen, Morten Holm	
Henttonen, Tero		Jensen, Søren Holdt	
Hickman, Granger		Jensen, Søren Holdt	
Hild, Kenneth		Jensen, Søren Holdt	
Himed, Braham		Jeromin, Oliver	
Hlawatsch, Franz		Jia, Peng	
Hlinka, Ondrej		Jia, Tao	
Ho, Tracey		Jin, Yuanwei	
Hoeher, Peter A		Joham, Michael	
Hogden, John		Joham, Michael	
Holloway, Jason		Joham, Michael	
Honig, Michael		Joham, Michael	
Hormigo, Javier		Johansson, Kenny	
Horner, Marc		Johansson, Kenny	
Hossain, Ekram		Johnson, Ben A	
Hourani, Ramsey	MP8a-6	Jones, Douglas L	TA8b1-7
Howard, Stephen		Jones, Douglas L	
Howard, Stephen D		Joshi, Deepak	MP3-8
Hranilovic, Steve		Josso, Nicolas François	
Hu, Jing	MP4-5	Jungnickel, Volker	WA3-8
Huang, Lin-Zheng	MP8a-3	Juntti, Markku	
Huang, Xinming	MP1a-1	Juntti, Markku	
Huang, Yih-Fang	TP8b2-4	Kahn, Joseph	WA3-1
Huang, Yuan-Hao		Kail, Georg	
Huang, Yuan-Hao	TP8b1-14	Kalgaonkar, Kaustubh	
Hunger, Raphael		Kang, Jin Ah	
Hunger, Raphael		Kar, Soummya	
Hunger, Raphael		Kar, Soummya	
Hunter, Christopher		Karipidis, Eleftherios	
		Karjalainen, Juha	

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Karmakar, Sanjay	
Karmakar, Sanjay	
Karmonik, Christof	
Karystinos, George	
Kaufman, Brett	
Kay, Kendrick	
Kelly, Daniel	TA7b-1
Kern, Jeffrey	
Ketonen, Johanna	TP7-2
Khal, Rami	
Khal, Rami	
Khan, Usman	
Khan, Usman	
Khosla, Aditya	TA1b-5
Khreishah, Abdallah	
Kim, Hong Kook	
Kim, Hong Kook	
Kim, Hyosung	
Kim, Hyosung	TA8b1-6
Kim, Hyung Suk	TA4b-5
Kim, Hyunjun	
Kim, Jae	
Kim, Kyeongyeon	
Kim, Seung-Jun	MP3-4
Kim, Tung	
Kim, Wooil	
Kirk, Daniel	
Klein, Andrew G	
Kliewer, Jorg	
Knopp, Raymond	TP8b1-10
Ko, Youngwook	
Koets, Michael A	
Koets, Michael A	
Koivunen, Visa	MA4-4
Koivunen, Visa	
Koivunen, Visa	
Koksal, C. Emre	
Koukina, Elena	
Kountouris, Marios	WA5-4
Kovvali, Narayan	WA4-4
Kozacky, Walter	
Kozaitis, Samuel	
Kramer, Gerhard	
Kreucher, Chris	
Kroeger, Ralf	
Krolik, Jeffrey	
Krolik, Jeffrey	
Krommweh, Jens	
Kulkarni, Sanjeev	
Kusmanoff, Antone	
Kuze, Toshiyuki	
Labate, Demetrio	
Ladner, Richard	
Lai, Hung	MP2-1

Ĭ	NAME Lai, Hung	SESSION
6		
8 1	Laird, Angela	
	Laird, Robert	
2	Lamahewa, Tharaka	
-	Lane, Terran	
2	Langford, John	
1	Lansel, Steven	
1	Laourine, Amine	
2	Larsen, Torben	
4	Larsson, Erik G.	
1	Larsson, Erik G	
5	Laska, Jason	WAI-3
4	Latva-aho, Matti	
5	Lau, Chad	
3	Lau, Vincent K.N.	
1	Le Boudec, Jean-Yves	
1	Lecocke, Meredith Beverid	
5	Lecocke, Meredith Beverid	
6	Lee, Benjamin	
5	Le-Ngoc, Tho	
7	Lenz, Johannes	
2	Leus, Geert	
7	Levy, Bernard	
4	Li, Hongbin	
1	Li, Hongbin	
2	Li, Hongbin	
3	Li, Huiying	
8	Li, Husheng	
4	Li, Jian	
)	Li, Jian	
)	Li, Jian	
4	Li, Jian	
8	Li, Jiangyuan	
4	Li, Kaiming	
6	Li, Karl	
5	Li, Lihong	
ŝ	Li, Tongtong	
7	Liang, Jie	
4	Liang, Yanfeng	
4	Liao, Chun-Fu	
2	Lilleberg, Jorma	
1	Lilly, Jonathan	MP1b-5
2	Lillywhite, Michael D	
4	Lillywhite, Michael D	
1	Lin, Ting-Lan	TA5b-4
5	Lindblom, Johannes	TP3-6
3	Lindskog, Erik	
3	Ling, Jun	
2	Lioliou, Panagiota	
8	Lisa, Osadciw	
1	Liu, Chih-Hao	
4	Liu, Huaping	MA7-5
8	Liu, Qijia	
1	Liu, Tianming	TP2b-4

NAME Llamocca, Daniel	SESSION	NAME Mitra, Kunal	SESSION
		Mohamed, Ashraf	
Llamocca, Daniel Lopes, Renato		Mohamed, Mohamed D.A	
Love, David		Mohammadi, Arash	
Love, David Luk, Wayne		Mohammed, Karim Mohsenin, Tinoosh	
Lundberg Nordenvaad, N Lutz, Dave	viagilus iviPo-2	Molteni, Daniele Moon, Todd	
Lyke, James		Moon, Todd	
Machado, Raquel		Moonen, Marc	
Maduike, Dumezie		Moorthy, Anush	
Maguire, Eleanor		Moran, Bill	
Mahmoudi, Babak		Moran, Bill	
Mahmoudi, Ramzi		Morrell, Darryl	
Makar, Mina		Morton, Yu Tong	
Manjunath, Bhavana		Mosquera, Carlos	
Marcellin, Michael		Moura, Jose'	
Margetts, Adam		Moura, Jose'	
Marmarelis, Vasilis		Moura, José M. F	
Marple Jr., S.Lawrence		Moura, José M.F	
Mars, Jérôme I		Moustakides, George	
Marttila, Jaakko		Muhi-eddine, Wafic	
Mastronarde, Nick		Mukherjee, Amitav	
Matas, Petr		Mukherjee, Amitav	
Mateos, Gonzalo		Muller, Jean-Michel	
Matey, James		Müller, Erika	
Mathan, Santosh		Munoz-Gomez, Juan	
Matsumoto, Tad		Muraleedharan, Rajani	
Matyjas, John		Muraleedharan, Rajani	
Matz, Gerald		Muraleedharan, Rajani	
Mavlankar, Aditya		Murphy, Patrick	
Mbitiru, Nyaga		Murray, Victor	
McAllister, John		Murthi, Manohar	
McCarthy, Nick		Murthi, Manohar N	
McDaniel, Larry T		Myers, Kary	
McDaniel, Larry T		Nakamura, Hidetoshi	
McEachen, John		Nannarelli, Alberto	
McIlhenny, Robert		Nannarelli, Alberto	
McKellips, Andrew		Nannarelli, Alberto	
McKellips, Andrew		Narayana, Shalini	
McKilliam, Robby		Naselaris, Thomas	
Mehlführer, Christian		Nasr, Omar	
Meloni, Luis	MP5-6	Navasca, Carmeliza	TP8a1-2
Meng, Jia (Jasmine)	TP3-7	Needell, Deanna	
Meng, Teresa	MA2a-1	Negro, Francesco	MP3-5
Mensing, Christian	MA3-6	Nehorai, Arye	MA5-1
Merz, Ruben	TA8b1-3	Nehorai, Arye	TP4-3
Meylemans, Marc	MA8a2-6	Nelson, Jill	TP8a2-2
Milanfar, Peyman	TA4b-4	Ngo, Hau	MA8b1-12
Miller, Benjamin		Nicoli, Monica	TA8b1-8
Miller, Lee	MA2a-3	Nikolic, Borivoje	
Millford, Matthew	MA7-4	Nikolov, Hristo	
Milstein, Laurence B	MA1b-1	Niu, Ruixin	
Miosso, Cristiano	TA2b-3	Noghanian, Sima	TP3-7

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Nossek, Josef A Novak, Gerald		_ `
Nowak, Robert		Parmar, Pastore,
		Pattichis
Nunez-Yanez, Jose		Pattichis
Nurmi, Lassi		Pattichis
Oborina, Alexandra		Pattichis
O'Brien, Dominic Oby, Emily		Paulraj,
O'Connell-Rodwell, Caitli		
		Pavel, N
O'Donoughue, Nicholas		Pawley,
O'Driscoll, Stephen		Pellizzer
Oesterlein, Tobias		Pellizzer
Ogunfunmi, Tokunbo		Peng, Q
Oh, Han		Perreau
Oh, Jung Hun		Persson
Oh, Yoo Rhee		Pesaran
Ohm, David		Petricca
Oien, Geir		Petricca
Olhede, Sofia		Petropu
Oliver, Michael		Petropu
Orlik, Phil		Pezeshk
Orlik, Philip		Pfister, I
Ortega, Antonio		Phillips,
Osadciw, Lisa		Pierluiss
Osadciw, Lisa		Pioro, N
Osadciw, Lisa		Piso Fer
O'shea, Tim		Plis, Ser
Østergaard, Jan		Plishker
Oweiss, Karim		Plonka,
Oyman, Ozgur		Pohlmey
Pace, Phillip		Polprase
Padgett, Curtis		Poor, H.
Pados, Dimitris		Poor, H.
Pal, Gopalendu		Poor, H.
Pal, Piya		Poor, Ha
Paleologu, Constantin		Popescu
Pan, Zhengang		Porat, R
Panahi, Issa		Porat, R
Pandey, Santosh		Porter, F
Panetta, Karen		Prasad,
Panetta, Karen		Prasad,
Papailiopoulos, Dimitris		Prenger
Papandreou-Suppappola	, Antonia	Price, La
D	MA4-8	Principe
Papandreou-Suppappola	i, Antonia MA5-4	Proakis,
Papandreou-Suppappola		Pulli, Ka
r apanureou-Suppappoia	WA4-4	Pulli, Ka
Parhami, Behrooz		Pun, Ma
Parhami, Behrooz		Qi, Emil
Parhi, Keshab		Qi, Ying
Parhi, Keshab K		Qin, Cha
Parhi, Keshab K		Quijano,
Park, Sung Hee		Quinn, E
, oung 1100		Λυταchi

Parmar, Manu	
Parmar, Manu	TA4b-5
Pastore, Adriano	TP8b1-15
Pattichis, Marios	MA1a-3
Pattichis, Marios	MA8b1-1
Pattichis, Marios	MA8b1-2
Pattichis, Marios	MA8b2-3
Paulraj, Arogyaswami	MA3-2
Pavel, Misha	
Pawley, Norma	
Pellizzer, Giuseppe	
Pellizzer, Giuseppe	
Peng, Qihang	
Perreault, Eric	
Persson, Daniel	
Pesaran, Bijan	
Petricca, Massimo	
Petricca, Massmo	
Petropulu, Athina	
Petropulu, Athina Petropulu, Athina	
Pezeshki, Ali	
Pfister, Henry	
Phillips, Braden Pierluissi, Joseph	
Pioro, Michal	IP1a-3
Piso Fernández, Daniel	
Plis, Sergey M	WA2a-4
Plishker, William	IVIA/-/
Plonka, Gerlind	
Pohlmeyer, Eric	
Polprasert, Chantri	
Poor, H. Vincent	
Poor, H. Vincent	
Poor, H. Vincent	
Poor, Harold	
Popescu, Dimitrie	
Porat, Ron	TP8b1-4
Porat, Ron	
Porter, Reid	
Prasad, Lakshman	
Prasad, Narayan	
Prenger, Ryan	TP2a-2
Price, Larry	
Principe, Jose	MA2a-4
Proakis, John	
Pulli, Kari	TA4b-3
Pulli, Kari	TP6b-4
Pun, Man-On	TP8b1-11
Qi, Émily	
Qi, Yingyong	
Qin, Chao	
Quijano, Jorge	
Quinn, Barry	
Qureshi, Fahad	
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NAME Qureshi, Tariq	SESSION MA5-7	NAME Sampath Kumar, Kiran	SESSION MA8a1-4
Radhakrishnan, Chandrash		Sampath Kumar, Kiran	
	TP8a3-5	Samuel, Michael	
Radosevic, Andreja	MP5-4	Sanchez, Alfonso	
Radwan, Basma	TP2a-1	Sanchez, Justin	
Raginsky, Maxim	MP3-3	Sand, Stephan	
Ramadas, Pravin	TP6a-4	Santhanam, Balu	
Ramprashad, Sean	WA8-1	Sarkar, Md. Zahurul Islam.	
Rao, Murali	MA1b-3	Sarwate, Dilip V	
Rathi, Vishwambhar	TA3b-4	Sayed, Ali H	
Ratnarajah, Tharmalingam	TA3b-3	Sayed, Ali H	
Raulefs, Ronald	MA3-6	Scaglione, Anna	
Re, Marco		Scharf, Louis L	
Re, Marco	MP8a-13	Schmidt, Aurora	
Redel, Thomas		Schmidt, David	
Reeves, Galen		Schniter, Philip	
Refaey-Ahmed, Ahmed		Schotsch, Birgit	
Ren, Ran		Schrammar, Nicolas	
Ren, Wei		Schrammar, Nicolas	
Revechkis, Boris		Schulte, Michael	
Revy, Guillaume		Schulte, Michael	
Rezk, M			
Rhee, Injong		Schutz, Antony	
Rhoads, Michael		Schwartz, Stuart C	
Richards, Brian		Schwarz, Valentin	
Richter, Andreas		Schwarzwalder, Joseph	
Richter, Henryk		Searle, Stephen	
Riedl, Thomas		Sellathurai, Mathini	
Riedl, Thomas		Sen, Pradeep	
Riemensberger, Maximiliar		Sen, Satyabrata	
Riihonen, Taneli		Senthilvelan, Murugappan	
Riskin, Eve		Serra-Sagrista, Joan	
Ritcey, James		Setlur, Vidya	
Ritcey, James		Severi, Stefano	
Rodas, Javier		Shah, Shishir	
		Shang, Xiaohu	
Rodas, Javier		Shapo, Ben	
Rodriguez, Paul		Sharma, Rajesh	
Rolny, Raphael		Sharp, Matthew	
Rørtveit, Øyvind Lunde		Shea, John M	
Roufarshbaf, Hossein		Shen, Chien-Chung	
Roumeliotis, S		Shen, Godwin	
Roy, Sebastien		Shen, Yuan	
Rueetschi, Andrea		Shenoy, Shakti Prasad	
Ruggiero, Christy		Shi, Changxin	
Rüngeler, Matthias		Shirahata, Toru	WA2b-4
Rupp, Markus		Shroff, Ness B	
Rupp, Markus		Shu, Wei	
Sabharwal, Ashutosh		Shuli, Ilir	
Sabharwal, Ashutosh		Shynk, John J	TP4-2
Sadeghi, Parastoo		Shynk, John J	
Sajjadi, Amir		Siderius, Martin	TP8a2-1
Saleh, Hani		Sima, Mihai	
Salim, Umer		Sinanovic, Sinan	
Samadani, Ramin		Singer, Andrew	

NAME Sampath Kumar, Kiran	SESSION MA8a1-4
Sampath Kumar, Kiran	
Samuel, Michael	TA8b1-9
Sanchez, Alfonso	
Sanchez, Justin	
Sand, Stephan	MA3-6
Santhanam, Balu	
Sarkar, Md. Zahurul Islam.	
Sarwate, Dilip V	
Sayed, Ali H	
Sayed, Ali H	
Scaglione, Anna	
Scharf, Louis L	
Schmidt, Aurora	TP8a2-3
Schmidt, David	
Schniter, Philip	TP8b2-6
Schotsch, Birgit	
Schrammar, Nicolas	
Schrammar, Nicolas	TP8b1-6
Schulte, Michael	
Schulte, Michael	WA7-6
Schutz, Antony	MA8b1-4
Schwartz, Stuart C	MA5-2
Schwarz, Valentin	MA8a1-2
Schwarzwalder, Joseph	TP4-8
Searle, Stephen	MA5-6
Sellathurai, Mathini	
Sen, Pradeep	TP6b-1
Sen, Satyabrata	
Senthilvelan, Murugappan	WA7-6
Serra-Sagrista, Joan	MP4-2
Setlur, Vidya	
Severi, Stefano	
Shah, Shishir	
Shang, Xiaohu	
Shapo, Ben	
Sharma, Rajesh	MP2-6
Sharp, Matthew	
Shea, John M	
Shen, Chien-Chung	MA1b-2
Shen, Godwin	
Shen, Yuan	TA4b-1
Shenoy, Shakti Prasad	
Shi, Changxin	
Shirahata, Toru	WA2b-4
Shroff, Ness B	
Shu, Wei	
Shuli, Ilir	
Shynk, John J	
Shynk, John J	
Siderius, Martin	
Sima, Mihai	
Sinanovic, Sinan	IA8b1-15

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Singer, Andrew		Takala,
Singer, Andrew		Tan, Che
Sirianunpiboon, Songsri		Tan, Kol
Skoglund, Mikael	TA3b-4	Tan, Xin
Skoglund, Mikael		Tanaka,
Skoglund, Mikael		Tanbour
Slock, Dirk		Tang, Ji
Slock, Dirk		Tang, Yi
Slock, Dirk		Tay, Pet
Slock, Dirk T.M		Tayem,
Smith, Anthony		Temerin
Solano, Fernando	TP1a-2	Tepedele
Soliz, Peter		Tepedele
Song, Dong		Tepedele
Sorokin, Harri		Tewfik, /
Soundararajan, Rajiv		Tewfik, /
Spanias, Andreas		Thai, Hi
Spencer, Nicholas K		Thiele, L
Spiegel, Martin		Thobabe
Spiteri, Trevor		Thomas
Sprintson, Alex		Tico, Ma
Srikant, R		Tisserar
Stabernack, Benno		Tölli, An
Stacey, Robert		Tomasze
Staelin, David H		Tong, La
Stanczak, Slawomir		Tourner
Stefanov, Todor		Trott, M
Stephan, Yann		Tsen, Ch
Stevens, David		Tugnait,
Stine, James E.		Tugnait,
Stoica, Petre		Tummal
Stoica, Petre		Tuncel,
Stojanovic, Milica		Usevitch
Stojanovic, Milica		Utschick
Stokes, Jack W		Utschick
Strohmer, Thomas		Utschick
Su, Xiang		Utschick
Subasingha, Shaminda	TP6a-2	Vafiadis
Suddarth, Steven C		Vaidyan
Sugiura, Hiroaki		Vaidyan
Sumanasena, Buddika		Vaidyan
Sun, John Z		Vaidyan
Sun, Yang		Valkama
Sun, Yang		van der
Sun, Yifan		Varranas
Suvorova, Sofia		Varanas
Swaminarayan, Sriram		Varshne
Swartzlander, Earl		Vary, Pe
Swartzlander, Jr., Earl E		Vary, 1 6
Swindlehurst, A. Lee		
Swindlehurst, A. Lee		Vera, Al Vera, G.
		Vera, G. Viberg,
Ta, Minh Tadipatri, Vijay Aditya		Viberg, Vishwar
		Vishwar
Tajer, Ali	175-2	visiiwai

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Takala, Jarmo	
Tan, Chee Wei	MA3-5
Tan, Kok Liang	
Tan, Xing	WA1-5
Tanaka, Toshiyuki	WA2b-4
Tanbourgi, Ralph	
Tang, Jinshan	MA1a-1
Tang, Yi	WA3-6
Tay, Peter	MA8b1-8
Tayem, Nizar	
Temerinac-Ott, Maja	TA2b-5
Tepedelenlioglu, Cihan	MP1a-3
Tepedelenlioglu, Cihan	
Tepedelenlioglu, Cihan	
Tewfik, Ahmed	
Tewfik, Ahmed H	
Thai, Hieu	
Thiele, Lars	
Thobaben, Ragnar	
Thomas, David	
Tico, Marius	
Tisserand, Arnaud	
Tölli, Antti	
Tomaszewski, Artur	TP1a-3
Tong, Lang	
Tourneret, Jean-Yves	TA6b-1
Trott, Mitchell	
Tsen, Charles	
Tugnait, Jitendra	MP6-5
Tugnait, Jitendra	
Tummala, Murali	
Tuncel, Ertem	
Usevitch, Bryan	
Utschick, Wolfgang	
Vafiadis, George	
Vaidyanathan, P. P	
Vaidyanathan, P. P	
Vaidyanathan, P. P.	WA4-1
Vaidyanathan, Palghat	
Valkama, Mikko	
van der Schaar, Mihaela	
Varanasi, Mahesh K	TP8h2-16
Varanasi, Mahesh K	
Varshney, Pramod	
Vary, Peter	
Vary, reter Vaze, Rahul	
Vera, Alonzo	
Vera, G. Alonzo	
Viberg, Mats	
Vishwanath, Sriram	
Vishwanath, Sriram	0-1 UOMIVI
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von Borries, Ricardo		Xiong, Zixiang	
Vorobyov, Sergiy	1P8D2-10	Xiu, Xiaoyu	
Vu, Cuong		Xu, Kuang	
Vu, Duc		Xu, Luzhou	
Vu, Duc		Xue, Ming	
Vu, Mai		Yan, Yanjun	
Vyetrenko, Svitlana		Yang, Hsin-I	
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Wong, Tan F		Zhou, Yicong	
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Wu, Michael		Zhu, Dajiang	
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Xiao, Xiangyang		Zotkiewicz, Mateusz	
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