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

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

Session	MA1b Energy Efficient MIMO Communication		MA3b-3	Message-Passing on Dense Graphs and Applications in Statistical Learning Mohsen Bayati, Andrea Montanari, Stanford University	
Chair: Cha	n-Byoung Chae, Yonsei University, S. Korea		MA3b-4	Robust Belief Propagation 11:30 AM	
MA1b-1	Optimal Transmission Policies over Vector Gaussian Channels with Energy Harvesting	10:15 AM		Morteza Ibrahimi, Ádel Javanmard, Yashodhan Kanoria, Andrea Montanari, Stanford University	
	Transmitters		Session 1	MA4b In-network Computation	
	Omur Ozel, University of Maryland; Jing Yang, Sen Ulukus, University of Wisconsin-Madison	nur	Chair: Osv	aldo Simeone, New Jersey Institute of Technology	
MA1b-2	Throughput and Energy Consumption of a Random Network with Energy Harvesters <i>Kaibin Huang, Yonsei University</i>	10:40 AM	MA4b-1	Network Optimization with Heuristic 10:15 AM Rational Agents Ceyhun Eksin, Alejandro Ribeiro, University of	
MA1b-3	Large-Scale Antenna Systems for Wireless Energy Efficiency Thomas Marzetta, Bell Laboratories, Alcatel-Lucen	11:05 AM	MA4b-2	Pennsylvania A Coordination-Free Distributed Algorithm 10:40 AM for Simple Assignment Problems Using	
MA1b-4	Energy-Efficient Training for Antenna Selection in Time-Varying Channels	11:30 AM		Randomized Actions Usman A. Khan, Tufts University; Soummya Kar, Carnegie Mellon University	
	Vinod Kristem, Broadcom Corporation; Neelesh B. Indian Institute of Science; Andreas Molisch, Unive Southern California	menta, rsity of	MA4b-3	Distributed Estimation of the Maximum 11:05 AM Value over a Wireless Sensor Network	
Session MA2b Delay Sensitive Communication		tion		Franck Iutzeler, Jérémie Jakubowicz, Institut Telecom, Telecom ParisTech, CNRS LTCI; Walid Hachem, CNRS-	
Chair: Ash	ish Khisti, University of Toronto			Telecom ParisTech; Philippe Ciblat, Institut Telecom, Telecom ParisTech, CNRS LTCI	
MA2b-1	Speeding Multicast by Acknowledgment Reduction Technique (SMART) Arman Rezaee, Linda Zeger, Muriel Medard, Massachusetts Institute of Technology	10:15 AM	MA4b-4	Collaborative Sequential-Based Detection in 11:30 AM Wireless Sensor Networks Sabina Zejnilovic, Carnegie Mellon University; Joao Pedro Gomes, Instituto Superior Tecnico; Bruno Sinopoli,	
MA2b-2	Controlling End-to-End Application Latency	10:40 AM		Carnegie Mellon University	
	for Real-Time Data Sanjeev Mehrotra, Cheng Huang, Jin Li, Microsoft		Session 1	MA5b Medical Imaging	
MA21-2	Research	11.05 AM	Chair: Ge	Yang, Carnegie Melon University	
MA2b-3	Correcting Erasure Bursts with Minimum Decoding Delay Zhi Li, Stanford University; Ashish Khisti, University Toronto; Bernd Girod, Stanford University	11:05 AM ty of	MA5b-1	Calibrationless Parallel MRI Using ORACLE 10:15 AM (Overlapping Low-Rank Approximations for Coil Image Estimation)	
MA2b-4	Code Length and Rate Selection for Delay Sensitive Bursty Traffic Tara Javidi, University of California, San Diego	11:30 AM	MA5b-2	Joshua Trzasko, Armando Manduca, Mayo Clinic Signal Modeling and the Cramér-Rao Bound 10:40 AM for Absolute Magnetic Resonance Thermometry:	
Session	1 0			Feasibility in Fat Tissue Marcus Björk, Johan Berglund, Joel Kullberg, Petre Strice Umgele University	
	Processing I			Stoica, Uppsala University	

MA5b-3

MA5b-4

Level Estimation for Sparse Reconstruction in 11:05 AM

11:30 AM

Yenting Lin, Antonio Ortega, Alexandros G. Dimakis,

Discrete Tomography

University of Southern California

Consistency of Saliency Map

Multimodal Image Registration by

Hiroyuki Takeda, University of Michigan

Processing I

Chair: Andrea Montanari, Stanford University

MA3b-1 Stochastic Belief Propagation: A 10:15 AM Low-Complexity Message-Passing Algorithm with Guarantees Nima Noorshams, Martin Wainwright, University of California, Berkeley

Reweighted Linear Programming for MA3b-2 10:40 AM Inference and Decoding Amin Khajehnejad, Alexandros Dimakis, Babak Hassibi, University of Southern California

Session MA6b Collaborative Beamforming

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

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

Session MA7b Multivariate and Multimodal Analysis of Brain Signals

Vincent Poor, Princeton University

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

MA7b-1	Sparse Common Spatial Patterns with Recursive Weight Elimination Fikri Goksu, Nuri F. Ince, University of Minnesota	10:15 AM
MA7b-2	Identifying Multivariate EEG Synchronization Networks through Multiple S Community Detection Marcos Bolanos, Ali Yener Mutlu, Michigan State University; Edward Bernat, Florida State University Selin Aviyente, Michigan State University	J

MA7b-3 Frequency Constrained ShifCP Modeling of Neuroimaging Data

Morten Mørup, Technical University of Denmark

Context Information Significantly Improves 11:30 AM

MA7b-4

Brain Computer Interface Performance - A Case Study on Text Entry Using a Language Model Assisted BCI Unut Orhan, Northeastern University; Kenneth E. Hild II, Oregon Health and Science University; Deniz Erdogmus, Northeastern University; Brian Roark, Barry Oken, Melanie Fried-Oken, Oregon Health and Science University

Session MA8b1 Computer Arithmetic I

10:15 AM - 12:00 PM

MA8b1-1	Efficient Decimal Leading Zero Anticipator Designs
	Mohamed H. Amin, Ahmed M. ElTantawy, Hossam A. H.
	Fahmy, Cairo University

- MA8b1-2 Hybrid Residue Generators for Increased Efficiency Michael Sullivan, Earl Swartzlander, University of Texas at Austin
- MA8b1-3 Nested Quadratic Arithmetic for Efficient Convolution of Complex Sequences with Quadratic Modified Fermat Number Transforms

 Chandrashekar Radhakrishnan, University of Illinois;

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

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

 Matthew Keeter, David Harris, Andrew Macrae, Rebecca

 Glick, Madeleine Ong, Harvey Mudd College; Justin

 Schauer, Oracle
- MA8b1-8 Truncated-Matrix Multipliers with Coefficient Shifting
 E. George Walters III, Penn State Erie, The Behrend
 College; Michael J. Schulte, Advanced Micro Devices

Session MA8b2 Physical Layer Security I

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

10:15 AM - 12:00 PM

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

 Jing Huang, A. Lee Swindlehurst, University of California,
- MA8b2-3 Secrecy Outage in MISO Systems with Partial Channel Information
 Sabrina Gerbracht, Eduard Jorswieck, Dresden University of Technology
- MA8b2-4 Secrecy Rate for Gaussian MISO Wiretap Channels with Spherical Uncertainty

 Jiangyuan Li, Athina Petropulu, Rutgers University

MA8b2-5	Two-Way Discriminatory Channel Estimation for Non-Reciprocal Wireless MIMO Channels Chao-Wei Huang, Tsung-Hui Chang, National Tsing Hua University; Xiangyun Zhou, University of Oslo; YW. Peter Hong, National Tsing Hua University
MA8b2-6	Safe Convex Approximation to Outage-Based MISO Secrecy Rate Optimization under Imperfect CSI and with Artificial Noise Qiang Li, Wing-Kin Ma, Anthony Man-Cho So, Chinese University of Hong Kong
MA8b2-7	Benefits of Multiple Transmit Antennas in Secure Communication: A Secrecy Outage Viewpoint Xi Zhang, Hong Kong University of Science and Technology; Xiangyun Zhou, University of Oslo; Matthew McKay, Hong Kong University of Science and Technology
MA8b2-8	Confidential Messages in Bi-Directional Relay Networks under Channel Uncertainty Rafael F. Wyrembelski, Holger Boche, Technische Universität München
Session N	AA8b3 Physical Layer Security II
Chair: Wing	g-Kin (Ken) Ma, Chinese University of Hong Kong
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	10:15 AM - 12:00 PM
MA8b3-1	
MA8b3-1 MA8b3-2	10:15 AM - 12:00 PM A Full-Duplex Active Eavesdropper in MIMO Wiretap Channels: Construction and Countermeasures Amitav Mukherjee, Lee Swindlehurst, University of
	10:15 AM - 12:00 PM A Full-Duplex Active Eavesdropper in MIMO Wiretap Channels: Construction and Countermeasures Amitav Mukherjee, Lee Swindlehurst, University of California, Irvine RF Fingerprinting of Users Who Actively Mask Their Identities with Artificial Distortion Adam Polak, Dennis Goeckel, University of Massachusetts
MA8b3-2	A Full-Duplex Active Eavesdropper in MIMO Wiretap Channels: Construction and Countermeasures Amitav Mukherjee, Lee Swindlehurst, University of California, Irvine RF Fingerprinting of Users Who Actively Mask Their Identities with Artificial Distortion Adam Polak, Dennis Goeckel, University of Massachusetts Amherst Power Allocation to Noise-Generating Nodes for Cooperative Secrecy in the Wireless Environment Kyle Morrison, Dennis Goeckel, University Massachusetts
MA8b3-2 MA8b3-3	A Full-Duplex Active Eavesdropper in MIMO Wiretap Channels: Construction and Countermeasures Amitav Mukherjee, Lee Swindlehurst, University of California, Irvine RF Fingerprinting of Users Who Actively Mask Their Identities with Artificial Distortion Adam Polak, Dennis Goeckel, University of Massachusetts Amherst Power Allocation to Noise-Generating Nodes for Cooperative Secrecy in the Wireless Environment Kyle Morrison, Dennis Goeckel, University Massachusetts Amherst Comparing Random Signals with Application to Wireless User Authentication

On the Ergodic Secrecy Capacity of the Wiretap Channel

under Imperfect Main Channel Estimation

Science and Technology

Zouheir Rezki, King Abdullah University of Science

and Technology; Ashish Khisti, University of Toronto;

Mohamed-Slim Alouini, King Abdullah University of

MA8b3-7

MA8b3-8 Secure Wireless Multicasting Through Nakagami-m Fading MISO Channel

Md. Zahurul I. Sarkar, Tharmalingam Ratnarajah,
Oueen's University Belfast

Session MA8b4 Image, Video Coding and Analysis

Chair: Vishal Monga, Pennsylvania State University

10:15 AM - 12:00 PM

MA8b4-1 JPEG Image Compression Using Quantization Table
Optimization Based on Perceptual Image Quality
Assessment
Yuebing Jiang, Marios Pattichis, University of New
Mexico

MA8b4-2 Efficient Coders for Large Tree-Structured Dictionaries of Tilings

Kai-Lung Hua, National Taiwan University of Science and Technology; Rong Zhang, Qualcomm Incorporated; Mary Comer, Ilya Pollak, Purdue University

MA8b4-3 Variable Block Size-Based MCFI with Fixed Block Size Motion Estimation

Masaru Hoshi, Akihiro Yoshinari, Yuichi Tanaka, Madoka Hasegawa, Shigeo Kato, Utsunomiya University

MA8b4-4 A Structural Similarity Assessment for Generating Hybrid Images Keita Takahashi, Madoka Hasegawa, Yuichi Tanaka, Shigeo Kato, Utsunomiya University

MA8b4-5 A Compact Saliency Model for Video-Rate Implementation Tien Ho-Phuoc, Laurent Alacoque, Antoine Dupret, CEA; Anne Guérin-Dugué, GIPSA-Lab; Arnaud Verdant, CEA

MA8b4-6 Dithered Soft Decision Quantization for Baseline JPEG Encoding and its Joint Optimization with Huffman Coding and Quantization Table Selection En-hui Yang, Chang Sun, University of Waterloo

MA8b4-7 Compressive Sensing Based Imaging via Beleif Propagation Preethi Ramchandara, Mina Sartipi, University of Tennessee Chattanooga

Session MA8b5 Adaptive Systems and Spectral Estimation

Chair: Vitor Nascimento, University of Sao Paulo

10:15 AM - 12:00 PM

MA8b5-1 A Modified System-Based Adaptive Algorithm for a Sparse Reconfigurable Photonic Filter Suk-seung Hwang, Hong Chang, Chosun University; John J. Shynk, University of California, Santa Barbara

MA8b5-2 A New Variable Step-Size Strategy For Adaptive Networks Muhammad Bin Saeed, Azzedine Zerguine, King Fahd University of Petroleum & Minerals

MA8b5-3	A Comparison of Methods for Estimating Broadband Noise in the Frequency Domain Don Hush, Norma Pawley, Kary Myers, Robert Nemzek, Los Alamos National Laboratory		Session 1	MP1b	Interference Alignment for to MIMO Interference Channe	
			Chair: Gaa	ort Lous To	echnical University of Delft	:1
MA8b5-4	An Information Filter for Voice Prompt Suppre John McDonough, Carnegie Mellon University; Ken Kumatani, Disney Research; Bhiksha Raj, Carnegie Mellon University; Jill Lehman, Disney Research		MP1b-1	Linear Ir Maximu Meisam R	nterference Alignment and its m Achievable Degrees of Freedom Razaviyayn, Gennady Lyubeznik, Zhi-Quan	3:30 PM
MA8b5-5	Embedded Track Validation for Tree Search-Barracking of Maneuvering Targets Hossein Roufarshbaf, Jill Nelson, George Mason University	ased	MP1b-2	MIMO II Access N Behrang	y of Minnesota nterference Alignment in Random Networks Nosrat-Makouei, Radha Krishna Ganti, Jej ws, Robert W. Heath, Jr., University of Texa	
MA8b5-6	Urban Terrain Multiple Target Tracking Using Probability Hypothesis Density Particle Filterin Meng Zhou, Bhavana Chakraborty, Jun Jason Zhang Arizona State University	ζ,	MP1b-3	Austin The Nois Distribut	sy MIMO Interference Channel with ted CSI Acquisition and Filter Compute to Negro, Eurecom; Umer Salim, Irfan Gha	4:20 PM
MA8b5-7	High-Resolution Non-Parametric Spectral Esti Using the Hirschman Optimal Transform Guifeng Liu, Victor DeBrunner, Florida State Univer		MP1b-4	Intel Corp Secure S	poration; Dirk Slock, Eurecom pace-Time Block Coding via I Noise Alignment	4:45 PM
MA8b5-8	Co-Prime Sampling for System Stabilization w Multi-Rate Controllers P. P. Vaidyanathan, Piya Pal, California Institute of	rith FIR		S. Ali A. F California	Fakoorian, A. Lee Swindlehurst, University a, Irvine	
	Technology		Session 1	MP2a	Energy-Harvesting Wireless	}
Session 1	MP1a Interference-Alignment Tech	hniques			Networks	
	for Multi-Antenna Systems		Chair: Osv	aldo Simeo	one, NJIT	
Chair: <i>Vind</i> Technolog MP1a-1	Interference Alignment for Peer-to-Peer	1:30 PM	MP2a-1	Amplitue the Trans	Channel under Time-Varying de Constraints with Causal Informatio smitter el, Sennur Ulukus, University of Maryland	1:30 PM n at
	Underlay MIMO Cognitive Radio Network Huiqin Du, Tharm Ratnarajah, Haichuan Zhou, Que University Belfast; Ying Chang Liang, Institute for Infocomm Research	een's	MP2a-2	Optimal Harvesti	Power Control for Energy ng Transmitters in an Interference Cha uncuoglu, Aylin Yener, Penn State Universit	
MP1a-2	Sum Rate Enhancement by Maximizing SGINR in an Opportunistic Interference Alignma Scheme	1:55 PM ment	MP2a-3	Capacity Vinod Sha	Theoretic and Information Theoretic of Energy Harvesting Sensor Nodes arma, Indian Institute of Science; Ramacha centre for Airborne Systems	2:20 PM ndran
	Seong-Ho (Paul) Hur, University of California, San Diego; Bang-Chul Jung, Gyeongsang National Univ Bhaskar D. Rao, University of California, San Diego	ersity;	MP2a-4	Sensor N	nd Power Control for Rechargeable Networks under the SINR Interference	2:45 PM
MP1a-3	Interference Alignment for Partially Connected Quasi-static MIMO Interference Channel	2:20 PM		Model Zhoujia M State Univ	Aao, Can Emre Koksal, Ness B. Shroff, Ohi versity	0
	Liangzhong Ruan, Vincent K.N. Lau, Hong Kong		Session 1	MP2b	Coding and Decoding	
MP1a-4	University of Science and Technology Opportunistic MU-MIMO based on	2:45 PM	Chair: Ayd	lin Sezgin,	University of Ulm	
1 411 1 4 -4	Semi-Blind Interference Alignment Haralabos Papadopoulos, Sayan Mukherjee, Sean Ramprashad, DoCoMo USA Labs	2.43 1 141	MP2b-1	Methods	kity Analysis of Interior Point t for LP Decoding , Lara Dolecek, University of California, L	3:30 PM
			MP2b-2	Rate Ada Low End	aptive Non-Binary LDPC Codes with coding Complexity Chang, MIT Lincoln Laboratory	3:55 PM

MP2b-3	Achieving Flexibility in LDPC Code Design by Absorbing Set Elimination Jiajun Zhang, Jiadong Wang, University of Californi	4:20 PM	Session	MP4a	Compressive Sensing Applic in Networking	ations	
	Los Angeles; Shayan Garani Srinivasa, Western Digi Corporation; Lara Dolecek, University of California Angeles	ital	Co-Chairs: Jarvis Han Rabbat, McGill Unive		upt, University of Minnesota and Michael ersity		
MP2b-4	Decoding by Detection: Soft-Input/Soft-Output Error Correction Decod for Arbitrary Binary Linear Codes Todd Moon, Jacob (Jake) Gunther, Utah State Univer		MP4a-1	Network Network	Recovery of Temporally Changing cs: Longitudinal Modeling of Brain cs in Children comp. Jamie Hanson, Seth Pollak, University of the control	1:30 PM	
Session	MP3a Graphical Models in Signal		MP4a-2		ng Anomalies in Large-Scale	1:55 PM	
	Processing II			Network	ks via Sparsity and Low Rank		
Chair: Ale	x Ihler, University of California, Irvine				Mardani, Gonzalo Mateos, Georgios B. is, University of Minnesota		
MP3a-1	Concept Graphs for a Personalized Learning System Andrew Waters, Richard Baraniuk, Rice University	1:30 PM	MP4a-3	Integrate Network		2:20 PM	
MP3a-2	Inference and Learning for Continuous-Time Stochastic Systems Christian Shelton, E. Busra Celikkaya, University of	1:55 PM		Fatemeh Fazel, Northeastern University; Mary University of Washington; Milica Stojanovic, N University		ortheastern	
MD2 2	California, Riverside	2 20 DM	MP4a-4	Recent I Graphs	Results on Sparse Recovery over	2:45 PM	
MP3a-3	Approximate Bayesian Inference for Robust Speech Processing Ciira Maina, John Walsh, Drexel University	2:20 PM		Weiyu Xu, Meng Wang, Enrique Mallada, Ao Kevin Cornell University		Tang,	
MP3a-4	Out-of-Sequence Measurements and	2:45 PM	Session	MP4b	MP4b Resource Allocation in Wireless		
	Incremental Inference in Graphical Models Ozgur Sumer, University of Chicago; Ramgopal Meti	tu	Networks				
	University Massachusetts Amherst; Umut Acar, MPI- Alexander Ihler, University of California, Irvine	·SWS;	Chair: Rahul Urgaonkar, University of Southern California				
Session		ing in	MP4b-1		ptimal Power Allocation in Wireless	3:30 PM	
	Complex Systems	g			Sensor Networks for Field Reconstruction Based on Shift-Invariant Spaces		
Chair: And	drew Singer, University of Illinois at Urbana-Cha	mpaign		Günter Reise, Vienna University of Technology; Javier Matamoros, Carles Antón-Haro, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC); Gerald Matz, Vienna University of Technology			
MP3b-1	Diffusion Adaptation over Networks of Particles Subject to Brownian Fluctuations	3:30 PM					
	Ali Sayed, Faten Sayed, University of California, Los Angeles	5	MP4b-2	Multiple	Interference Mitigation for e-Input Multiple-Output Ad Hoc Netwo	3:55 PM rks	
MP3b-2	Trust, Opinion Diffusion and Radicalization in Social Networks	3:55 PM		Kountour	soum, University of Texas at Austin; Marios ris, Merouane Debbah, Supélec; Robert W. I ersity of Texas at Austin	Heath,	
	Lin Li, Anna Scaglione, University of California, Da Ananthram Swami, Army Research Laboratory; Qing Zhao, University of California, Davis		MP4b-3	Networl	ly Link Scheduler for Wireless ss with Fading Channels	4:20 PM	
MP3b-3	Disentangling Mixed Preference Systems and Hidden Variables Constantine Caramanis, University of Texas at Austin		MP4b-4	Radio R	esource Management in eneous Deployments: a System Level	4:45 PM	
MP3b-4	Unity Versus Diversity in a Population of Interacting Adaptive Agents: the Value of Extri Gossip Andrew Bean, Andrew Singer, University of Illinois a Urbana Champaign	4:45 PM nsic		Perspect	tive Wirth, Fraunhofer Heinrich Hertz Institute		

Session	Analysis	i	MP6a-2	arrays Julie Col	cal Decomposition of Non-Negative	
	n-Christophe Olivo-Marin, Institut Pasteur			UMR 642	ura, University of RENNES 1, LTSI and IN 2	SERM,
MP5a-1	Quantitative Synaptic Vesicle Imaging for Evaluating Neuron Activities in Neurodegener Diseases Jing Fan, Xiaofeng Xia, Stephen Wong, Methodist Hospital Research Institute		MP6a-3	Estimati Florian I Nima San Song, Ma	Based Semi-Blind Channel ion for MIMO OSTBC-Coded System Roemer, Ilmenau University of Technology; rmadi, Technische Universität Darmstadt; I artin Haardt, Ilmenau University of Technol	Bin logy;
MP5a-2	Flexible and Efficient Multi-Region Segmentation Using Active Contours	1:55 PM		Marius F Darmsta	Pesavento, Alex Gershman, Technische Univ dt	ersität
MDS. 2	Grégory Paul, Janick Cardinale, Ivo F. Sbalzarini, I Zurich		MP6a-4	Structur	Decompositions with Block-Toeplitz re and Applications in Signal Processin	
MP5a-3	Nanometer Resolution Imaging and Tracking of Axonal Cargo Transport in Normal and	2:20 PM	Session		orensen, Lieven De Lathauwer, K.U. Leuve	
	Degenerative Neurons Ge Yang, Carnegie Mellon University		Session	MIFOD	Compressive Sensing for Ar Processing	ray
MP5a-4	Statistical Colocalization of Molecular	2:45 PM	Chair: Ben	niamin Fri	edlander, University of California, San	nta Cruz
	Species in Biological Imaging Vannary Meas-Yedid, Cyril Basquin, Nathalie Sauve Jean-Christophe Olivo-Marin, Institut Pasteur	onnet,	MP6b-1	The MU	JSIC Algorithm for Compressive g: Noise Stability and Performance	3:30 PM
Session	MP5b Image/Video Restoration,		Guarantee Albert Fannjiang, University of California, Davis			
	Enhancement and Evaluation	n	MP6b-2		heoretical Results for Compressive	3:55 PM
Chair: Ma	ry Comer, Purdue University			Radar	Strohmer, University of California, Davis;	
MP5b-1	Tikhonov's Regularization Functional for Image Restoration by Means of q-Discrepancy	3:30 PM			n Friedlander, University of California, San	ta
	Vania V. Estrela, Universidade Federal Fluminense, Aggelos K. Katsaggelos, Northwestern University		MP6b-3	Sensitiv Sensing	rity Considerations in Compressed	4:20 PM
MP5b-2	Equivalence of Plenoptic Cameras Todor Georgiev, Adobe; Sergio Goma, Qualcomm	3:55 PM		Louis Sci Yuejie Cl	harf, Ali Pezeshki, Colorado State Universi hi, Princeton University	
MP5b-3	Incorporated; Andrew Lumsdaine, Adobe Referenceless Image Spatial Quality Evaluator	4:20 PM	MP6b-4	Random	nce, Compressive Sensing and n Sensor Arrays e Carin, Duke University	4:45 PM
	Anish Mittal, Anush Moorthy, Alan Bovik, Wireless Networking and Communications Group		Session	MP7a	Processing of Physiological	Signals
MP5b-4	Noise Model Discrimination for Digital Images based on Variance-Stabilizing Transfo	4:45 PM rms			at Ince, University of Minnesota and M niversity of Denmark	lorten
	and on Local Statistics: Preliminary Results Paul Rodriguez, Pontificia Universidad Catolica de	l Peru	MP7a-1		e Morphology of High-Frequency	1:30 PM
Session	MP6a Tensor-based Array Signal				0 Hz) Brain Oscillations Change Durin c Seizures?	

Allison Pearce, Drausin Wulsin, Brian Litt, Justin Blanco,

1:55 PM

Early Investigations into Subjective Audio 1 Quality Assessment Using Brainwave Responses

Charles Creusere, Srikant Siddenki, New Mexico State University; Joe Hardin, Colorado State University; Jim

University of Pennsylvania

Kroger, New Mexico State University

MP7a-2

Tensor-based Array Signal Session MP6a Processing

Chair: Martin Haardt, Ilmenau University of Technology

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

MP7a-3	Electrocardiogram Signal Modeling and 2:20 PM Estimation Using the Interacting Multiple Model Particle Filtering Shwetha Edla, Narayan Kovvali, Antonia Papandreou-Suppappola, Arizona State University
MP7a-4	A Novel Approach for Simulation, 2:45 PM Measurement and Representation of Surface EMG (sEMG) Signals Anvith Mahabalagiri, Khadeer Ahmed, Fred Schlereth, Syracuse University
Session 1	MP7b Model-based Design Optimization
Chair: San	kalita Saha, NASA, USA
MP7b-1	Distributed Energy and Environment Sensing 3:30 PM for Smart Building Management Chen Xia, Hao Liu, Xiangrong Zhou, University of Hawaii
MP7b-2	FPGA-Accelerator System for Computing 3:55 PM Biologically-Inspired Feature Extraction Models Michael DeBole, Pennsylvania State University; Chili Yu, Arizona State University; Ahmed Al Maashri, Matthew Cotter, Pennsylvania State University; Chaitali Chakrabarti, Arizona State University; Vijaykrishnan Narayanan, Pennsylvania State University
MP7b-3	A Machine Model for Dataflow Actors and its 4:20 PM Applications Jorn W. Janneck, Lund University
MP7b-4	Operation Set Customization in Retargetable 4:45 PM Compilers Heikki Kultala, Pekka Jääskeläinen, Mikael Lepistö, Jarmo Takala, Tampere University of Technology
Session 1	MP8a1 Adaptive Filtering
Chair: Rica	ardo Merched, Universidade Federal do Rio de Janeiro
	1:30 PM - 3:10 PM
MP8a1-1	Simplified Complex LMS Algorithm for the Cancellation of Second-Order TX Intermodulation Distortions in Homodyne Receivers Christian Lederer, Mario Huemer, Alpen-Adria-Universitaet Klagenfurt
MP8a1-2	A Steady-State Analysis of the E-Normalized Sign-Error Least Mean Square (NSLMS) Adaptive Algorithm Mohammed Faiz, Azzedine Zerguine, King Fahd University of Petroleum & Minerals
MP8a1-3	A Modified Non-Negative LMS Algorithm and its Stochastic Behavior Analysis Jie Chen, Cédric Richard, Université de Nice Sophia- Antipolis; Jose Bermudez, Federal University of Santa Catarina; Paul Honeine, Université de Technologie de Troyes
MP8a1-4	A Robust LMS Adaptive Algorithm over Distributed Networks Muhammad Bin Saeed, Azzedine Zerguine, Salam Zummo, King Fahd University of Petroleum & Minerals

MP8a1-5	Error-Based "Gear-Shifting" for a Generalized LMS Algorithm John J. Shynk, University of California, Santa Barbara
MP8a1-6	A Variable Step-Size GMDF and its Performance Analysis Hsu-Chang Huang, Junghsi Lee, Yuan-Ze University
MP8a1-7	Acoustic Feedback and Echo Cancellation Strategies for Multiple-Microphone and Single-Loudspeaker Systems Meng Guo, Thomas Bo Elmedyb, Oticon A/S; Søren Holdt Jensen, Aalborg University; Jesper Jensen, Oticon A/S
MP8a1-8	Comparison of Two Techniques for Linear-Phase Adaptive Band-Stop Filters Michael Soderstrand, University of California (Retired)
Session N	MP8a2 Speech Processing, Recognition and Coding
Chair: Jerry	y Gibson, University of California, Santa Barbara
	1:30 PM - 3:10 PM
MP8a2-1	Automatic Phoneme Recognition with Segmental Hidden Markov Models Areg Baghdasaryan, A. A. (Louis) Beex, Virginia Polytechnic Institute and State University
MP8a2-2	A Perceptually Re-Weighted Mixed-Norm Method for Sparse Approximation of Audio Signals Mads Christensen, Bob Sturm, Aalborg University
MP8a2-3	Scalable Multimode Tree Coder with Perceptual Pre- Weighting and Post-Weighting for Wideband Speech Coding Ying-Yi Li, Jerry Gibson, University of California, Santa Barbara

Isolated Word Endpoint Detection Using Time-

Alexandros Kyriakides, Costas Pitris, University of Cyprus; Andreas Spanias, Arizona State University

Enabling Improved Speaker Recognition by Voice

Anthony Bartos, Welkin Associates, Ltd.; Douglas Nelson,

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

Performance Enhanced Multi-Rate iLBC Koji Seto, Tokunbo Ogunfunmi, Santa Clara University

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

Frequency Variance Kernels

Ouality Estimation

U.S. Department of Defense **Session MP8a3** Parameter Estimation

MP8a2-4

MP8a2-5

MP8a2-6

MP8a3-1

1:30 PM - 3:10 PM

MP8a3-2	Non-Uniform Linear Arrays for Improved Identifiability in Cumulant Based DOA Estimation Piya Pal, P. P. Vaidyanathan, California Institute of Technology
MP8a3-3	Knowledge-Aided Direction Finding Based on Unitary ESPRIT Jens Steinwandt, Ilmenau University of Technology; Rodrigo C. de Lamare, University of York; Martin Haardt, Ilmenau University of Technology
MP8a3-4	Maximum Likelihood Time Delay Estimation for CDMA Direct-Spread Multipath Transmissions Using Importance Sampling Ahmed Masmoudi, Faouzi Bellili, Sofiene Affes, INRS-EMT
MP8a3-5	Particle Filter Based DOA Estimation for Multiple Source Tracking (MUST) Thomas Wiese, Technical University Munich; Heiko Claussen, Justinian Rosca, Siemens Corporation, Corporate Research
MP8a3-6	Direction-of-Arrival Estimation Using Distributed Body Area Networks: Error & Refraction Analysis Kaveh Ghaboosi, Pranay Pratap Swar, Kaveh Pahlavan, Worcester Polytechnic Institute
MP8a3-7	Bayesian Estimation of a Subspace Olivier Besson, University of Toulouse-ISAE; Nicolas Dobigeon, Jean-Yves Tourneret, University of Toulouse- IRIT/ENSEIHT
MP8a3-8	Model Order Selection in Sensor Array Response Modeling Mário Costa, Andreas Richter, Visa Koivunen, Aalto University
Session N	MP8a4 DSP Algorithms and Architectures
Chair: Mich	nael Schulte, AMD, USA
	1:30 PM - 3:10 PM
MP8a4-1	High Dynamic Range Adaptive Delta-Sigma Based Focal Plane Array Architecture Shun Yao, Marvel Semiconductors; Sam Kavusi, Khaled N Salama, King Abdullah University of Science and Technology

N Salama, King Abdullah University of Science and Technology

MP8a4-2 Block Circular and Hyperbolic Transformations for the Block Fast Array RLS Algorithm

Roger West, Todd Moon, Jacob (Jake) Gunther, Utah State University

MP8a4-3 The Polyphase Random Demodulator for Wideband Compressive Sensing J.P. Slavinsky, Jason Laska, Richard Baraniuk, Rice

University

MP8a4-4 A Floating-Point Fused FFT Butterfly Arithmetic Unit with Merged Multiple-Constant Multipliers

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

University of Texas at Austin

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

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

Massachusetts Institute of Technology

Session MP8a5 Novel DSP Architectures

Chair: David Thomas, Imperial College London, UK

1:30 PM - 3:10 PM

MP8a5-1 In-Service Reconfiguration of Signal Processing Components Gordon Brebner, Christopher Neely, Shay Seng, Xilinx, Inc.

MP8a5-2 Rethinking Computation Using FPGA Based Accelerators for Large Applications Dennis Allison, Michael J Flynn, Oskar Mencer, Maxeler Technologies

MP8a5-3 Versatile FPGA DSP Blocks with Carry-Save Arithmetic Support

Hadi Parandeh Afshar, Paolo Ienne, École Polytechnique Fédérale de Lausanne (EPFL)

MP8a5-4 Scalable Acceleration of High-Performance, Fourier-Domain Optical Coherence Tomography Lesley Shannon, Simon Fraser University

MP8a5-5 Fine-Grain Reconfigurable Functional Unit for Embedded Processors Gian Carlo Cardarilli, Luca Di Nunzio, Rocco Fazzolari, Marco Re, University of Rome Tor Vergata

MP8a5-6 Increasing Productivity of Reconfigurable Computing for Signal Processing

Wayne Luk, Imperial College London

MP8a5-7 Synchronous and Asynchronous Computations with Molecular Reactions

Hua Jiang, Marc D. Riedel, Keshab K. Parh Parhi,
University of Minnesota

MP8a5-8 Design and Implementation of a Flexible Queue Manager for Next Generation Networks Qi Zhang, Roger Woods, Alan Marshall, Queen's University Belfast

Session TA1a Random Matrices in Signal Processing and MIMO Communications

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

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

TA1a-2	Beyond IID Gaussian Matrices in Compressed Sensing Antonia Tulino, Bell Laboratories, Alcatel-Lucent; Giuseppe Caire, University of Southern California;	8:40 AM	TA2a-2	Network Coding for Data Replication over 8:40 AM Wireless Networks Lorenzo Keller, Christina Fragouli, École Polytechnique Fédérale de Lausanne (EPFL)
TA1a-3	Shlomo Shamai, Technion-Israel Institute of Technolo Sergio Verdú, Princeton University Mutual Information Distribution of Interference-Limited MIMO: A Joint Coulomb	9:05 AM	TA2a-3	A Fundamental Approach to Securing Data in 9:05 AM the Cloud from Adversarial Attacks Salim El Rouayheb, Sameer Pawar, Kannan Ramchandran, University of California, Berkeley
	Fluid and Painlevel Based Approach Shang Li, Hong Kong University of Science and		TA2a-4	Network Coding for Security and Privacy <i>Tracey Ho, California Institute of Technology</i> 9:30 AM
	Technology; Yang Chen, Imperial College London; Matthew McKay, Hong Kong University of Science at Technology	nd	Session T	TA2b Relaying through Frequency Selective Channels
TA1a-4	Outage Capacity for MIMO-OFDM Systems in Block Fading Channels	9:30 AM	Chair: Andy	Klein, Worcester Polytechnic Institute
	Marco Chiani, University of Bologna; Andrea Conti, University of Ferrara; Matteo Mazzotti, Enrico Paoli University of Bologna; Alberto Zanella, WiLab/IEIIT- CNR		TA2b-1	Distributed Single Carrier Frequency-Domain 10:15 AM Equalization for Multi-Relay Cooperative Networks over Frequency Selective Rician Channels Homa Eghbali, Sami Muhaidat, Simon Fraser University;
Session T	0			Ibrahim Abualhaol, Khalifa University of Science, Technology and Research
	Classification		TA2b-2	Cooperative BICM-OFDM Systems for 10:40 AM
	Ulisses Braga-Neto, Texas A&M University and u-Suppappola, Arizona State University	! Antonia		Frequency-Selective Relay Channels Reza Heidarpour, Murat Uysal, University of Waterloo
TA1b-1	A Real-Time Reconstruction Algorithm for the Integrate and Fire Sampler Alexander Singh Alvarado, Jose Principe, University Florida	10:15 AM of	TA2b-3	On Relay Selection in Frequency Selective 11:05 AM Channels <i>Qingxiong Deng, Andrew Klein, Worcester Polytechnic Institute</i>
TA1b-2	Using Physiological Signals to Predict Apnea in Preterm Infants James Williamson, Daniel Bliss, David Browne, MIT Lincoln Laboratory; Elisabeth Salisbury, Premanand Indic, David Paydarfar, University of Massachusetts Medical School		TA2b-4	Superposition Coding for Cooperative 11:30 AM BICM-OFDM Systems Toufiqul Islam, Robert Schober, University of British Columbia; Ranjan K Mallik, Indian Institute of Technology, Delhi; Vijay K Bhargava, University of British Columbia
TA1b-3		11:05 AM	Session T	A3a Advances in Compressive Sensing
	Statistics and Boosting Alicia DeMino, General Dynamics; Robert Kubichek,	:	Chair: Chri	stoph Studer, Rice University
TA1b-4	University of Wyoming; Kevin Caves, Duke Universit	y 11:30 AM	TA3a-1	An Empirical-Bayes Approach to 8:15 AM Compressive Sensing via Approximate Message Passing Jeremy Vila, Philip Schniter, Ohio State University
	Performance Ipek Ozil, Cornell University; Martin H. Plawecki, Indiana University School of Medicine; Peter C. Doerschuk, Cornell University; Sean J. O'Connor, In University School of Medicine	diana	TA3a-2	Compressive Sensing under Multiplicative 8:40 AM Uncertainties: An Approximate Message Passing Approach Jason Parker, Air Force Research Laboratory; Volkan Cevher, École Polytechnique Fédérale de Lausanne
Session T	9		TA3a-3	(EPFL); Philip Schniter, Ohio State University Compressive Sensing: to Compress or not to 9:05 AM
Chair: <i>Athin</i> TA2a-1	na Markopoulou, University of California, Irvine Network Alignment	8:15 AM	11154-5	Compress Davis Kirachaiwanich, Qilian Liang, University of Texas
	Syed Jafar, University of California, Irvine		TA3a-4	at Arlington Spread Representations Jean Jacques Fuchs, Université de Rennes 1 9:30 AM

Session '	ΓA3b Sparse Reconstruction	TA4b		e Effects of Topology and Node 10:40 AM		
Chair: Gee	rt Leus, Technical University of Delft		Distri Netw	bution on Learning over Complex Adaptive		
TA3b-1	New Bounds for Restricted Isometry 10:1. Constants in Orthogonal Multi Matching Pursuit Jian Wang, Byonghyo Shim, Korea University	15 AM TA4b	Sheng Angele	Yuan Tu, Ali H. Sayed, University of California, Los		
TA3b-2		40 AM	Seyed Illinoi	Rasoul Etesami, Angelia Nedic, University of s at Urbana-Champaign		
T. 1. 2.	Bob Sturm, Mads Christensen, Aalborg University; Rémi Gribonval, INRIA	TA4b	Throu	ping Information Dissemination 11:30 AM gh Distributed Femtocell Caching adros Dimakis, University of Southern California		
TA3b-3	Greedy Sparsity-Constrained Optimization 11:0. Sohail Bahmani, Carnegie Mellon University; Petros)5 AM Sess	sion TA5a	Image and Video Retrieval		
	Boufounos, Mitsubishi Electric Research Labs; Bhiksha Raj, Carnegie Mellon University			na Vedantham, Nokia Research		
TA3b-4	Power-Iterative Strategy for lp-l2 11:30 Optimization for Compressive Sensing: Towards Global Solution Jie Yan, Wu-Sheng Lu, University of Victoria	30 AM TA5a	Featu Sam T	te Visual Search Using Image and Text 8:15 AM res sai, Huizhong Chen, David Chen, Stanford rsity; Ramakrishna Vedantham, Radek Grzeszczuk,		
Session '		ice		Bernd Girod, Stanford University		
Co-Chairs:	Victor Preciado, University of Pennsylvania and Ali University of Pennsylvania	TA5a	Visua	mpact Index for Large-Scale Mobile 8:40 AM I Search Chen, Sam Tsai, Vijay Chandrasekhar, Gabriel		
TA4a-1	Stabilization	8:15 AM		Takacs, Huizhong Chen, Stanford University; Ramakrishna Vedantham, Radek Grzeszczuk, Nokia Research Center; Bernd Girod, Stanford University		
	Miroslav Pajic, University of Pennsylvania; Shreyas Sundaram, University of Waterloo; George Pappas, Rahul Mangharam, University of Pennsylvania	ra TA5a	with A	ple-Channel Compact Visual Descriptor 9:05 AM Adaptive Channel Learning ong Ji, Harbin Institute of Technology; Ling-Yu		
TA4a-2	A Contrasting Look at Network Formation 8:4 Models and Their Application to the Minimum Spanning Tree	40 AM	Duan,	Jie Chen, Peking University; Hongxun Yao, Harbin te of Technology; Tiejun Huang, Wen Gao, Peking		
	David Alderson, Gerald Brown, Naval Postgraduate School; D.B. McPherson, U.S. Navy	TA5a	n-4 Effici	ent Re-Ranking in Vocabulary 9:30 AM		
TA4a-3	The Role of Local Structural Information in 9:0 Viral Information Spreading	05 AM	Xiaoyi	Based Image Retrieval u Wang, University of Missouri; Ming Yang, Kai Yu, aboratories America, Inc.		
	Victor Preciado, Ali Jadbabaie, University of Pennsylvania	Sess	sion TA5b	Sparse Representations with		
TA4a-4		30 AM		Applications to Images and Video		
	Network Architecture Ann Hermundstad, Kevin Brown, Danielle Bassett, Jean	Chair	r: Trac Tran	Tran, Johns Hopkins University		
~	Carlson, University of California, Santa Barbara	TA5b		st Multi-Dimensional Scaling via 10:15 AM		
Session '	for Information Processing in	thms		er Sparsity Control Forero, Georgios Giannakis, University of sota		
	Complex Networks	TA5b		tectures for Compressive Sampling of 10:40 AM		
Chair: <i>Usn</i> TA4b-1	nan Khan, Tufts University On Scheduling Without a Master Clock: 10:1	15 AM		lated Signals med, Justin Romberg, Georgia Institute of ology		
	Coupled Oscillator Time Division Multiplexing Andrea Rueetschi, Anna Scaglione, University of California, Davis	TA5b	Video	ressed-Sensing Recovery of Images and 11:05 AM Using Multi-Hypothesis Predictions Chen, Eric Tramel, James Fowler, Mississippi State sity		

ΓA5b-4	Sparsity-Based Human Activity Recognition for Mobile Computing Devices Victor Shia, Allen Yang, Ruzena Bajcsy, University of		Session	TA7	Architectures for Wireless Communications	
	California, Berkeley		Chair: Joe	Cavallero	, Rice University	
ΓA5b-5	Sparsity-Based Face Recognition Using Discriminative Graphical Models Umamahesh Srinivas, Vishal Monga, Pennsylvania Suniversity; Yi Chen, Trac D. Tran, The Johns Hopkin University	ns	TA7-1	Reliabili LDPC D	Zhang, Fang Cai, Case Western Reserve	8:15 AM y
Session	8	(O	TA7-2		eture Exploration, Development and	8:40 AM
	Radar				g Platform for Orthogonal Frequency Multiplexing (OFDM) Systems	
Chair: Vis	a Koivunen, Aalto University			Antonio M	Mondragon-Torres, Mahesh Kommi, Tamo	oghna
ГА6а-1	Cluster Allocation Schemes for Target	8:15 AM	T17.2		arya, Rochester Institute of Technology	0.05.434
	Tracking in Multiple Radar Architectures Hana Godrich, Princeton University; Athina Petrop. Rutgers University; H. Vince Poor, Princeton Univer		TA7-3	Majority Binary L	d Iterative Soft-Reliability-Based y-Logic Decoding Algorithm for Non Low-Density Parity-Check Codes	9:05 AM -
ГА6а-2	Synergistic MIMO SAR and GMTI Duc Vu, Luzhou Xu, Jian Li, University of Florida	8:40 AM	TA7-4	_	g Xiong, Zhiyuan Yan, Lehigh University ver 1 Software Design on Multi-Core	9:30 AM
ГА6а-3	Resource Allocation in Widely Distributed MIMO Radars in Non-Ideal Conditions	9:05 AM	1A/-4	DSP Arc Arokia Iri	chitectures udayaraj, Michael Brogioli, Nitin Jain, U	
	Tuomas Aittomaki, Aalto University; Hana Godrich, Rutgers University; Visa Koivunen, Aalto University Vincent Poor, Princeton University			Garg, Fre BREAK	eescale Semiconductor, Inc.	9:55 AM
ГА6а-4	Centralized and Distributed Tests for Moving Target Detection with MIMO Radars in Clutte Non-Homogeneous Power Pu Wang, Hongbin Li, Stevens Institute of Technolog Braham Himed, Air Force Research Laboratory	r of	TA7-5	Through Algorith	t FPGA Implementation of a High sput Systolic Array QR-Decomposition m Abels, Till Wiegand, Steffen Paul, University	
Session	•		TA7-6		ison of Performance and	10:40 AM
	Relaying via Multiple Anten	nas		Detector	entation Complexity of Soft-Output S rs for MIMO-OFDM Systems Myllyla, Renesas Mobile Europe Ltd	Sphere
	giy Vorobyov, University of Alberta		TA7-7		d Power Optimization in FPGA	11:05 AM
ГА6b-1	Collaborative Beamforming in Wireless Sensor Networks Serkan Sayilir, Yung-Hsiang Lu, Dimitrios Peroulis,	10:15 AM Y.		Mehmood	rchitectures for Polyphase Channeliz A Awan, Peter Koch, Aalborg University; In Diego State University	
ГА6b-2	Charlie Hu, Byunghoo Jung, Purdue University Joint Power Control and Relay Design in Underlay Cognitive Networks with Multiple	10:40 AM	TA7-8	Modulat	re Implementation of Kuiper-Based tion Level Classification riza, Eric Rebeiz, Danijela Cabric, Unive	11:30 AM
	Transmitter-Receiver Pairs	b			a, Los Angeles	
	Keyvan Zarifi, Sofiene Affes, INRS-EMT; Ali Ghraye Concordia University	<i>D</i> ,	Session	TA8a1	Signal Processing Methods	
ГА6b-3	Beamforming in MIMO Broadcast Relay	11:05 AM			Representation, Analysis, a	
	Networks with Multiple Antenna Users Godfrey Okeke, Yindi Jing, Witold Krzymien, Univer	sitv			Control of Biological System	
	of Alberta	•			n Yoon, Texas A&M and Xiaoning Q	ian,
ГА6b-4	A Relay Selection Approach to Bi-Directional Collaborative Communications with Imperfect Fadhel Al-Humaidi, Shahram ShahbazPanahi, Univ.	CSI	University	of South F		И - 9:55 AM

of Ontario Institute of Technology

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

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

University

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

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

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

 Mehmet Umut Caglar, Ranadip Pal, Texas Tech University
- TA8a1-7 Bayesian Networks Modeling of Cellular Regulatory Pathways Chen Zhao, Ivan Ivanov, Texas A&M University; Michael Bittner, Translational Genomics Research Institute; Edward Dougherty, Texas A&M University
- TA8a1-8 Haplotype Inference Based on Sparse Dictionary Selection Guido Hugo Jajamovich, Xiaodong Wang, Columbia University
- TA8a1-9 Surface-Constrained 3D Reconstruction in Cryo-EM Andrew C. Barthel, Hemant Tagare, Fred J. Sigworth, Yale University
- TA8a1-10 Phenotypically Constrained Stationary Control Policies for Gene Regulatory Network Intervention Xiaoning Qian, University of South Florida; Edward Dougherty, Texas A&M University
- TA8a1-11 Prediction of Cancer Subtypes Using Bayesian Factor Network Model

 Jia Meng, University of Texas at San Antonio; Manuel
 Sánchez Castillo, University of Granada; Jianqiu Zhang,
 University of Texas at San Antonio; Isabel María Tienda
 Luna, University of Granada; Yufei Huang, University of
 Texas at San Antonio
- TA8a1-12 Dynamical Processes on Networks: A Unified View Garrett Jenkinson, John Goutsias, The Johns Hopkins University
- TA8a1-13 A Brief Review of Signal Processing Issues in Mass Spectrometry-Based Proteomics Studies Chao Yang, Weichuan Yu, Hong Kong University of Science and Technology
- TA8a1-14 Fault Detection and Intervention in Biological Feedback Networks

 Ritwik Layek, Aniruddha Datta, Texas A&M University
- TA8a1-15 Fast Global Sequence Alignment Algorithm

 Talal Bonny, Khaled Nabil Salama, King Abdullah

 University of Science and Technology

TA8a1-16 Optimal State Estimation for Boolean Dynamical Systems

Ulisses Braga-Neto, Texas A&M University

Session TA8a2 Receiver Design and Optimization

Chair: Lara Dolecek, UCLA

8:15 AM - 9:55 AM

- TA8a2-1 Incorporating Prior Information into Semi-Definite Relaxation of Quadratic Optimization Problems

 Jacob (Jake) Gunther, Todd Moon, Utah State University
- TA8a2-2 Diversity of the MMSE Receiver in Flat Fading and Frequency Selective MIMO Channels at Fixed Rate Florian Dupuy, Thales Communication / Université Paris Est; Philippe Loubaton, Université Paris Est
- TA8a2-3 Predicting the Pruning Potential on the Sphere Decoding for Multiple-Input Multiple-Output Detection

 Hwanchol Jang, Gwangju Institute of Science and
 Technology; Saeid Nooshabadi, Michigan Technological
 University; Heung-No Lee, Gwangju Institute of Science
 and Technology
- TA8a2-4 Computationally Efficient Design of the MAE Equalizer for Binary Signaling
 Weiwei Zhou, Jill Nelson, George Mason University;
 Ananya Sen Gupta, Woods Hole Oceanographic Institution
- TA8a2-5 Broadband Doppler Compensation: Principles and New Results

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

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

Session TA8a3 Communications System Design

Chair: Marco Chiani, University Bologna

8:15 AM - 9:55 AM

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

Ryan Gabrys, Lara Dolecek, University of California, Los

Angeles

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

 Andreja Radosevic, University of California, San Diego;

 Tolga Duman, Arizona State University; John Proakis,

 University of California, San Diego; Milica Stojanovic,

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

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

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

Session TA8a4 Applications of Array Processing

Chair: Giuseppe Abreu, Oulu University, Finland

8:15 AM - 9:55 AM

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

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

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

- TA8a4-5 MIMO Radar Target Measurements

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

 Foroohar Foroozan, Nasim Moallemi, Shahram

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

 Gan Zheng, Symeon Chatzinotas, Bjorn Ottersten, SnT,

 University of Luxembourg
- TA8a4-9 Equidistributed Sampling Sequences for Spectral Analysis
 Mustafa Al-Ani, Andrzej Tarczynski, University of
 Westminster

Session TA8b1 Multiple Antennas in Multi-User Systems and Networks

Chair: Shuguang Cui, Texas A&M University

10:15 AM - 12:00 PM

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

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

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

 University; Bingguang Peng, Xiaolong Zhu, Huawei

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

 Kapil Borle, Biao Chen, Syracuse University; Michael

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

	Jian Dang, Southeast University; Liuqing Yang, Colorado State University; Zaichen Zhang, Southeast University		Interference Known at One Relay Kagan Bakanoglu, Elza Erkip, Polytechnic Institute of
TA8b1-8	Coordinated Multi-Cell Beamforming for LTE-Advanced Systems		New York University; Osvaldo Simeone, New Jersey Institute of Technology
	Qixing Wang, Guangyi Liu, China Mobile Research Institute; Shuguang Cui, Texas A&M University	TA8b2-3	Interference Management in Femtocell Networks with Hybrid-ARQ and Interference Cancellation
TA8b1-9	Linear Transceiver Design for Interfering Broadcast Channel with QoS Constraints		Tania Villa, Eurecom; Ruben Merz, Deutsche Telekom Laboratories; Raymond Knopp, Eurecom
	Meisam Razaviyayn, Zhi-Quan Luo, University of Minnesota	TA8b2-4	Achievable Degrees of Freedom of the K-User Interference Channel with Partial Cooperation
TA8b1-10	Cooperative Feedback for MIMO Interference Channels Kaibin Huang, Yonsei University; Rui Zhang, National University of Singapore	TA 01.2.5	Ahmed Naguib, Khaled Elsayed, Cairo University; Mohammed Nafie, Nile University
TA8b1-11	Eigen-Mode Transmission for Jointly Correlated MIMO Broadcast Channels Xiao Li, Shi Jin, Xiqi Gao, Southeast University	TA8b2-5	Multicell Downlink Weighted Sum-Rate Maximization: A Distributed Approach Pradeep Chathuranga Weeraddana, Marian Codreanu, Matti Latva-aho, Centre for Wireless Communications
TA8b1-12	How Many Degrees of Freedom Can Be Achieved for Mutually Interfering MIMO Broadcast Channels? Hyukjin Chae, Sungyoon Cho, Kaibin Huang, Dongku Kim, Yonsei University	TA8b2-6	Decentralized Multi-Cell Beamforming Coordination for Multiuser MISO Systems Harri Pennanen, Antti Tölli, Matti Latva-aho, University of Oulu
TA8b1-13	Distributed Beamforming Based Directional Spectrum Sharing Juan Liu, Wei Chen, Zhigang Cao, Tsinghua University; Ying Jun Zhang, Chinese University of Hong Kong	TA8b2-7	Feedback Reduction by Thresholding in Multi-User Broadcast Channels: Design and Limits Matthew Pugh, Bhaskar D. Rao, University of California, San Diego
TA8b1-14	Spatially Efficient Distributed Relay Selection for Random Relay Networks Sungrae Cho, Wan Choi, Korea Advanced Institute of Science and Technology; Kaibin Huang, Yonsei University	TA8b2-8	Full-Duplex Bidirectional MIMO: Achievable Rates under Limited Dynamic Range Brian Day, Ohio State University; Daniel Bliss, Adam Margetts, MIT Lincoln Laboratory; Philip Schniter, Ohio State University
TA8b1-15	Channel State Information Feedback Control for Interference Alignment	Session '	TA8b3 Adaptive Sensing
	Lingyang Song, Peking University; Zhu Han, University of Houston; Shaohui Sun, Datang Mobile; Bingli Jiao,		vis Haupt, University of Minnesota
TA8b1-16	Peking University Self-Optimized MIMO-OFDMA: A Nash-Stackelberg		10:15 AM - 12:00 PM
	Game-Theoretic Approach Jie Ren, Jianjun Hou, Beijing Jiaotong University; Kai-Kit Wong, University College London	TA8b3-1	Adaptive Search for Sparse Moving Targets under Resource Constraints Gregory Newstadt, Eran Bashan, Alfred O. Hero,
Session 7			University of Michigan
	Transmission in Multi-Antenna	TA8b3-2	Adaptive Signal Recovery in Noisy Environments Mark Iwen, Duke University; Ahmed Tewfik, University of Texas at Austin
Chair: <i>Dan</i>	Systems iel Bliss, MIT Lincoln Laboratory	TA8b3-3	On the Limits of Sequential Testing in High Dimensions Matthew Malloy, Robert Nowak, University of Wisconsin
	10:15 AM - 12:00 PM	TA8b3-4	Active Learning for Adaptive Life-Long Learning Lawrence Carin, Duke University; Hui Li, Signal

TA8b2-2

Innovations Group

Hierarchical Learned Dictionaries

Efficient Adaptive Compressive Sensing Using Sparse

Information-Optimal Adaptive Compressive Imaging

Akshay Soni, Jarvis Haupt, University of Minnesota

Amit Ashok, Mark Neifeld, University of Arizona

TA8b3-5

TA8b3-6

Half-Duplex Gaussian Diamond Relay Channel with

On Grouped OFDM-IDMA

TA8b1-7

TA8b2-1

Cooperative Rate Maximization Based on Base Station

Samer Bazzi, Guido Dietl, DoCoMo Communications

Exchange of Powers

Laboratories Europe GmbH

TA8b3-7 On Primary Side Information in Cognitive Radio Networks May Moussa, Mohammed Nafie, Nile University; Hesh]		Making Optimal Use of the Asymmetric Interference Channel Rachel Learned, MIT Lincoln Laboratory		5:10 PM		
	ElGamal, Ohio State; Ayman Naguib, Qualcomm Incorporated		Session	TP2a	Cognitive Radio I			
TA8b3-8	Further Results on Adaptive Sequential Detec	ction with	Chair: Ges	sualdo Sci	utari, University at Buffalo			
	One-Sided Stopping and Deadline Wenyi Zhang, University of Science and Technolog China; Ahmed Sadek, Stephen Shellhammer, Cong Qualcomm Incorporated		TP2a-1	Networ Seung-Ju	ink Learning and Cognitive Radio k Sensing un Kim, Georgios Giannakis, University of	1:30 PM		
Session	TP1a Resource Allocation in Mul	lti-	TP2a-2	Minneso Spectru	m Sensing via Event-Triggered	1:55 PM		
	Antenna Systems			Samplii	ng			
Chair: Nee	elesh Mehta, Indian Institute of Science		TP2a-3		maz, Xiaodong Wang, Columbia University	2:20 PM		
TP1a-1	Optimal Power Allocation for Multi-User Transmit Beamforming via Regularized Char Inversion		11728-3	Networ	drous, Atilla Eryilmaz, Hesham El-Gamal, O			
TP1a-2	Rusdha Muharar, Jamie Evans, University of Melb Capacity Density Optimization by Fractional Frequency Partitioning Martin Taranetz, Josep Colom Ikuno, Markus Rupp	1:55 PM	TP2a-4	for Dyn Omid Na Universi	ted Equilibrium Learning Algorithms namic Spectrum Access namvar Gharehshiran, Vikram Krishnamurthy ity of British Columbia	2:45 PM		
TP1a-3	Vienna University of Technology Resource Allocation in MIMO Multi-Cellular	2:20 PM	Session	TP2b	Cognitive Radio II			
11 14 5	Networks via Submodular Optimization		Chair: Ges	Chair: Gesualdo Scutari, University at Buffalo				
	Narayan Prasad, Honghai Zhang, NEC Laboratories America, Inc.; Luca Venturino, University of Cassino Jubin Jose, University of Texas at Austin; Sampath Rangarajan, NEC Laboratories America, Inc.	no;	TP2b-1	Randon Spectru	e Eigenvalue Distributions of Finite n Wishart Matrices with Application to ım Sensing e Abreu, University of Oulu; Wensheng Zhar	3:30 PM		
TP1a-4	Transmit Power Optimization for Multi-Antenna Decode-and-Forward Relays	2:45 PM			Inamori, Yukitoshi Sanada, Keio University	8,		
	Loopback Self-Interference from Full-Duplex Operation	(TP2b-2	Spectru	rrelation-Based Multi-Antenna im Sensing in Colored Noise Tugnait, Auburn University	3:55 PM		
	Taneli Riihonen, Stefan Werner, Risto Wichman, Aa University	allo	TP2b-3		ralized Cognition via Randomized	4:20 PM		
Session	TP1b Interference Management			Maskin Kamvar	g Moshksar, Amir Khandani, University of Wa	terloo		
Chair: Aya	lin Sezgin, University of Ulm		TP2b-4		m Leasing via Cooperative	4:45 PM		
TP1b-1	Degrees of Freedom of Multiple Unicasts over Multihop Wireless Networks Syed Jafar, University of California, Irvine	3:30 PM		Opportu Networ	unistic Routing in Distributed Ad Hocks: Optimal and Heuristic Policies o Tapparello, Davide Chiarotto, Michele Rosity of Padova; Osvaldo Simeone, New Jersey			
TP1b-2	Optimized Data Symbol Sharing in Multiple-Antenna Interference Channel	3:55 PM		Institute Padova	of Technology; Michele Zorzi, University of			
TP1b-3	Maha Odeh, Paul De Kerret, David Gesbert, Eurec On Interference Channels with more than	4:20 PM	TP2b-5		age-Passing Algorithm for Spectrum in Cognitive Radio Relay Networks	5:10 PM		
1110-3	Two Source-Destination Pairs Daniela Tuninetti, University of Illinois, Chicago	4.20 FWI		Sang Hy	nn Cognitive Radio Relay Networks run Lee, Manohar Shamaiah, Sriram Vishwa. kalo, University of Texas at Austin	nath,		
TP1b-4	Training and Feedback Optimization For MIMO Interference Alignment in Continuous Fading Channels Omar El Ayach, Angel Lozano, Universitat Pompet Fabra; Robert W. Heath, Jr., University of Texas at	ı						

Session	TP3a Multi-dimensional Compres Inference	sive	TP4a-2	A Framework for Integrating Mobility and 1:55 PM Routing in Mobile Communication Networks <i>Michael M. Zavlanos, Stevens Institute of Technology;</i>
Chair: Ph	il Schniter, The Ohio State University			Alejandro Ribeiro, George J. Pappas, University of Pennsylvania
TP3a-1	Real-Time Principal Component Pursuit Graeme Pope, Manuel Baumann, ETH Zurich; Chris Studer, Rice University; Giuseppe Durisi, Chalmers University of Technology		TP4a-3	Multi-Robot Path Following with Visual 2:20 PM Connectivity Magnus Lindhé, Royal Institute of Technology; Tamas Keviczky, Delft University of Technology; Karl Henrik
TP3a-2	Low Rank Variational Tensor Recovery for Multi-Linear Inverse Problems Hatim Alqadah, Howard Fan, University of Cincinna	1:55 PM ati	TP4a-4	Johansson, Royal Institute of Technology Communication Network Challenges for Collaborative Vehicles 2:45 PM
TP3a-3	Optimized Measurements for Kernel Compressive Sensing	2:20 PM		Pedram Hovareshti, Chen Hua, John Baras, University of Maryland
	Karthikeyan Natesan Ramamurthy, Andreas Spanias Arizona State University		Session	TP4b Distributed Storage Systems
TP3a-4	Efficient Message Passing-Based Inference in the Multiple Measurement Vector Problem	2:45 PM	Chair: <i>Ale</i> . TP4b-1	x Dimakis, University of Southern California Codes for Robust Scalable Distributed 3:30 PM
Session	Distributed Filtering		1140-1	Video-on-Demand Systems Sameer Pawar, Salim El Rouayheb, Hao Zhang, University of California, Berkeley; Parimal Parag, Texas A&M University; Kannan Ramchandran, University of
	or Nascimento, University of Sao Paulo	2.20.77.6	TP4b-2	California, Berkeley Error Coding for Long-Term Archival 3:55 PM
TP3b-1	Continuous-Time Distributed Estimation Vitor Nascimento, University of Sao Paulo; Ali Sayed University of California, Los Angeles		11 40-2	Storage Systems Ethan Miller, Ian Adams, Jingpei Yang, Daniel Rosenthal, Darrell Long, University of California, Santa Cruz
TP3b-2	Sequential Likelihood Consensus and Application to Distributed Particle Filtering wi Reduced Communications and Latency Ondrej Sluciak, Ondrej Hlinka, Markus Rupp, Franz		TP4b-3	Theoretical Problems in Fault-Tolerant Distributed Storage James Plank, University of Tennessee Survey of New MDS Frances Codes for 4.45 PM
TP3b-3	Hlawatsch, Vienna University of Technology; Petar Djuric, Stony Brook University	4:20 PM	TP4b-4	Survey of Non-MDS Erasure Codes for Distributed Storage Systems Jay Wylie, Hewlett-Packard Labs
1130-3	A Unifying Framework for the Analysis of Quaternion-Valued Adaptive Filters		Session	
	Clive Cheong Took, Cyrus Jahanchahi, Danilo Mana Imperial College London	lic,		oinder Madan, U.S. Office of Naval Research
TP3b-4	Joint Conditional and Steady-State Probability Densities of Weight Deviations for Proportionate-Type LMS Algorithms	4:45 PM	TP5-1	Compressive Sensing: Snake Oil or Good 1:30 PM Idea? Fred Daum, Raytheon
TP3b-5	Kevin Wagner, Naval Research Laboratory; Miloš Doroslovacki, George Washington University Fast and Superfast Computations in	5:10 PM	TP5-2	Compressive Sensing for Synthetic Aperture 1:55 PM Radar in Fast-Time and Slow-Time Domains
	Structured Equalization Scenarios Ricardo Merched, Universidade Federal do Rio de J		TP5-3	Qilian Liang, University of Texas at Arlington Comparison of MMOSPA and Compressed Sensing for Radar Array Processing 2:20 PM
Session	TP4a Communication Managemen Robot Networks	nt in		David Crouse, Peter Willett, University of Connecticut; Lennart Svensson, Chalmers University; Yaakov Bar-
Chair: Mic	chael Zavlanos, Stevens Institute of Technology		TP5-4	Shalom, University of Connecticut Support Recovery in Compressive Sensing 2:45 PM
TP4a-1	Co-Optimization of Communication and Motion Planning of a Robotic Operation in Fac Environments Yuan Yan, Yasamin Mostofi, University of New Mexic			for Estimation of Direction-of-Arrival Zhiyuan Weng, Xin Wang, Stony Brook University

Yuan Yan, Yasamin Mostofi, University of New Mexico

TP5-5	BREAK Explore Group Sparsity for Compressive Sensing Based MIMO Radar	3:10 PM 3:30 PM	TP6b-2	User Scheduling for Large Multi-Beam 3:55 PN Satellite MIMO Systems Matteo Berioli, Vincent Boussemart, Francesco Rossetto, German Aerospace Center (DLR)
TP5-6	Yao Yu, Athina Petropulu, Junzhou Huang, Rutgers University On the Role of Waveform Diversity in MIMO	3:55 PM	TP6b-3	Multi-User Interference Mitigation 4:20 PM Techniques for Broadband Multi-Beam Satellite Systems
	Radar Benjamin Friedlander, University of California, San Cruz	ta		Ilaria Thibault, Francesco Lombardo, Enzo A. Candreva, Alessandro Vanelli-Coralli, Giovanni E. Corazza, University of Bologna
TP5-7	Non-Coherent Compressive Sensing for MIMO Radar with Widely Separated Antenna: Christian Berger, Jose' Moura, Carnegie Mellon University	4:20 PM	TP6b-4	Advanced Interference Mitigation Techniques 4:45 PM for the Forward Link of Multi-Beam Broadband Satellite Systems Bertrand Devillers, Centre Tecnològic de
TP5-8	Global Methods for Compressive Sensing in MIMO Radar with Distributed Sensors	4:45 PM		Telecomunicacions de Catalunya (CTTC); Ana Pérez- Neira, Universitat Politècnica de Catalunya
	Marco Rossi, Alexander M. Haimovich, New Jersey Institute of Technology; Yonina C. Eldar, Technion-I Institute of Technology		TP6b-5	Performance Evaluation of a Satellite 5:10 PM Diversity System Employing Compact MIMO- Octahedron Antenna
Session	TP6a Source Localization			Tommy Tommy, Lund University; Abbas Mohammed, Blekinge Institute of Technology
Chair: Mu	ralidhar Rangaswamy, Purdue University		Session 7	
TP6a-1	Robust Time-Based Localization for Asynchronous Networks with Clock Offsets	1:30 PM		Architectures
	Yiyin Wang, Delft University of Technology; Xiaoli	10	Chair: And	ly Tyrrell, University of York, UK
	Ma, Georgia Institute of Technology; Geert Leus, De University of Technology	IP/a-I	A Programmable Analog and Digital Array 1:30 PM	
TP6a-2	Conditioned MDS with Heterogeneous Information Davide Macagnano, Giuseppe Abreu, University of	1:55 PM Oulu		for Bio-Inspired Electronic Design Optimization at Nano-Scale Silicon Technology Nodes Martin Trefzer, James Walker, Andy Tyrrell, University of York
TP6a-3	Cooperative Multihop Localization with Privacy Golaleh Rahmatollahi, Leibniz University Hannover Giuseppe Abreu, University of Oulu; Stefano Severi, University of Bologna		TP7a-2	Evolved Defect Tolerant Structures for FPGA 1:55 PM Architectures Pauline Haddow, Norwegian University of Science and Technology
TP6a-4	Design and Performance of an Integrated Waveform-agile Multi-Modal Track-before-Do Sensing System Jun Zhang, Arizona State University; Surendra Bhat Pennsylvania State University; Quan Ding, University; Qu	t,	TP7a-3	Improved Learning in an Evolvable Oscillator 2:20 PM for In-Flight Controller Adaptation in a Flapping-Wing Micro Air Vehicle Gallagher John, Wright State University; Michael Oppenheimer, Air Force Research Laboratory
	Rhode Island; Antonia Papandreou-Suppappola, Ar State University; Ram Narayanan, Pennsylvania Sta University; Steven Kay, University of Rhode Island; Muralidhar Rangaswamy, Air Force Research Labo	izona nte	TP7a-4	Using Discrete Fourier Transforms to Detect 2:45 PM Operational Environments for Autonomous Non- Linear Systems Garrison Greenwood, Portland State University
Session	•	te	Session 7	TP7b Computer Arithmetic II
	Communications		Chair: Neil	l Burgess, ARM, Inc. USA
	chael Joham, Technical University Munich	2 20 D) (TP7b-1	The Fully-Serial Pipelined Multiplier 3:30 PM Andrew Shafer, Advanced Micro Devices; Lyndsi Parker,
TP6b-1	On the Capacity of Multi-Beam Joint Decoding over Composite Satellite Channels	3:30 PM	_	IBM; Earl Swartzlander, University of Texas at Austin
	Dimitrios Christopoulos, Symeon Chatzinotas, Univ of Luxembourg; Michail Matthaiou, Chalmers Univ of Technology; Björn Ottersten, University of Luxen	ersity	TP7b-2	Special-Purpose Crypto Hardware 3:55 PN Accelerators for 45nm High-Performance Microprocessors Sanu Mathew, Ram Krishnamurthy, Intel Corporation

TP7b-3	Energy-Efficient Floating-Point Arithmetic 4:20 PM for Low-Power Digital Signal Processors Syed Z. Gilani, Nam Sung Kim, University of Wisconsin- Madison; Michael J. Schulte, Advanced Micro Devices
TP7b-4	Testing Fused Multiply Add Implementations 4:45 PM David Lutz, Neil Burgess, Sabrina Romero, ARM
TP7b-5	Shared Implementation of Radix-10 and 5:10 PM Radix-16 Division Algorithm with Limited Precision Primitives Milos D. Ercegovac, University of California, Los Angeles; Robert McIlhenny, California State University, Northridge
Session	TP8a1 Techniques for Space-Time Signal
	Processing
Chair: Kai	ibin Huang, Yonsei University, S. Korea
	1:30 PM - 3:10 PM
TP8a1-1	Equivalent Codes and Optimality of Orthogonal Space- Time Block Codes Alex Geyer, Sergiy Vorobyov, Norman Beaulieu, University of Alberta
TP8a1-2	On Quasi-Orthogonal Space-Time Block Codes for Dual-Polarized MIMO Channels Yabo Li, Zhike Huang, Zhejiang University; Xiang-Gen Xia, University of Delaware
TP8a1-3	Sparse Space-Time Equalization with L1 Norm Laura Slivinski, Brown University; Adam Margetts, Daniel Bliss, Massachusetts Institute of Technology
TP8a1-4	Weighted Sum-Rate Maximization for MISO Downlink Cellular Networks via Branch and Bound Satya Joshi, Pradeep Chathuranga Weeraddana, Marian Codreanu, Matti Latva-aho, Centre for Wireless Communications
TP8a1-5	Low Complexity Generalized Geometric Mean Decomposition and DFE Transceiver Design Chih-Hao Liu, P. P. Vaidyanathan, California Institute of Technology
TP8a1-6	Worst-Case Robust Multiuser Transmit Beamforming Using Semidefinite Relaxation: Duality and Implications Tsung-Hui Chang, National Tsing Hua University; Wing- Kin Ma, Chinese University of Hong Kong; Chong-Yung Chi, National Tsing Hua University
TP8a1-7	Transmitter Optimization for MIMO Systems with Mutual Coupling at High SNR Peng Li, Hong Kong University of Science and Technology; Liang Sun, Alcatel-Lucent Shanghai Bell; Matthew McKay, Ross Murch, Hong Kong University of Science and Technology
TP8a1-8	Robust Joint Optimization of Non-Regenerative MIMO Relay Channels with Imperfect CSI Ebrahim A. Gharavol, Erik G. Larsson, Linköping University

Session TP8a2 Statistical and Array Signal Processing for Biomedical Applications

Chair: Monica Bugallo, University of Stony Brook

1:30 PM - 3:10 PM

TP8a2-1	ECG De-Noising Using a Dynamical Model and a
	Marginalized Particle Filter
	Chao Lin, TéSA Laboratory; Monica Bugallo, Stony
	Brook University; Corinne Mailhes, Jean-Yves Tourneret
	University of Toulouse

- TP8a2-2 Beta Dirichlet Process Mixture Model Based Clustering of DNA Methylation Array Data Jia Meng, Yufei Huang, University of Texas at San Antonio; Lin Zhang, China University of Mining and Technology
- TP8a2-3 Neonatal Seizure Detection Using Multi-Channel Blind Information Fusion Huaying Li, Aleksandar Jeremic, McMaster University; Kenneth Tan, University of Melbourne
- TP8a2-4 A Novel Approach to Automated Fetal Heart Rate Analysis Shishir Dash, Petar Djuric, Stony Brook University
- TP8a2-5 Joint Waveform and Firing Rate Spike-Sorting for Continuous Extracellular Traces

 Brett Matthews, Mark Clements, Georgia Institute of Technology
- TP8a2-6 Statistical Design of Position-Encoded Microsphere
 Arrays at Low Target Concentrations
 Xiaoxiao Xu, Washington University in St. Louis; Pinaki
 Sarder, Washington University School of Medicine in St.
 Louis; Arve Nehorai, Washington University in St. Louis
- TP8a2-7 Biosensor Arrays for Collaborative Detection of Analytes

 Maryam Abolfath-Beygi, Vikram Krishnamurthy,

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

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

 Medical Center, Minneapolis

Session TP8a3 Sensor Networks

Chair: Soumya Kar, Carnegie Mellon University

1:30 PM - 3:10 PM

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

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

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

- TP8a3-5 Distributed Support Vector Machines in Sensor-Actuator Networks

 Joseph Lee, University of California, Los Angeles
- TP8a3-6 Step-Size Sequence Design for Finite-Time Distributed Average Consensus Alain Kibangou, University Joseph Fourier/CNRS
- TP8a3-7 Target Localization in Sensor Networks with Quantized Data in the Presence of Byzantine Attacks

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

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

Session TP8a4 Wireless Networks

Chair: Vivek Cadambe, University of California, Irvine

1:30 PM - 3:10 PM

- TP8a4-1 Dynamic Pricing under Binary Demand Uncertainty: A Multi-Armed Bandit with Correlated Arms

 Yixuan Zhai, Oing Zhao, University of California, Davis
- TP8a4-2 Optimal Routing with Mutual Information Accumulation in Wireless Networks

 Rahul Urgaonkar, Michael Neely, University of Southern

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

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

 Brian Phillips, Murali Tummala, John McEachen, Naval Postgraduate School
- TP8a4-5 Robust Joint Transceiver Beamforming for Cognitive Radio Network Huiqin Du, Tharm Ratnarajah, Queen's University Belfast; C. B. Papadias, Athens Information Technology
- TP8a4-6 Probabilistic Power Control for Heterogeneous Cellular Networks with Closed-Access Femtocells Ralf Bendlin, Yih-Fang Huang, University of Notre Dame; Josef A. Nossek, Munich University of Technology

TP8a4-7 Pricing and Bandwidth Allocation Problems in Wireless Multi-Tier Networks Camila Maria Gabriel Gussen, Universidade Federal do Rio de Janeiro; Elena Veronica Belmega, Mérouane Debbah, Supélec

TP8a4-8 Joint Power and Rate Control for Coded Wireless Packet Networks

Ketan Rajawat, Nikolaos Gatsis, Emiliano Dall'Anese,
Georgios Giannakis, University of Minnesota

Session TP8b1 Machine-Learning-Based Statistical Signal Processing

Chair: Phil Schniter, The Ohio State University

3:30 PM - 5:10 PM

- TP8b1-1 Shrinkage Fisher Information Embedding of High Dimensional Feature Distributions

 Xu Chen, Yilun Chen, Alfred Hero, University of Michigan
- TP8b1-2 Adaptive Learning of Immunosignaturing Peptide Array Features for Biothreat Detection and Classification Jun Zhang, Bhavana Chakraborty, Anna Malin, Antonia Papandreou-Suppappola, Stephen Johnston, Phillip Stafford, Arizona State University
- TP8b1-3 Sparse Classification of RF Transients Using Chirplets and Learned Dictionaries

 Daniela Moody, Steven Brumby, Kary Myers, Norma
 Pawley, Los Alamos National Laboratory
- TP8b1-4 Exploiting Random Matrix Theory to Improve Subspace-Based Classification
 Nicholas Asendorf, Raj Rao Nadakuditi, University of
 Michigan
- TP8b1-5 Non-Linear Unmixing of Hyperspectral Images with Kernels

 Jie Chen, Université de Technologie de Troyes; Cédric Richard, Université de Nice Sophia-Antipolis; Paul Honeine, Université de Technologie de Troyes
- TP8b1-6 Modulation Classification of MIMO-OFDM Signals by Independent Component Analysis and Support Vector Machines

 Handan Agirman-Tosun, A.M. Haimovich, Osvaldo Simeone, New Jersey Institute of Technology; Wei Su, U.S. Army CERDEC Aberdeen Proving Ground; Jason Dabin, U.S. Navy SPAWAR SCP; Emmanuel Kanterakis, CACI International
- TP8b1-7 A Measure of Difference between Discrete Sample Sets

 Debejyo Chakraborty, General Motors Company;

 Narayan Kovvali, Arizona State University
- TP8b1-8 On 11 Mean and Variance Filtering
 Bo Wahlberg, Cristian R. Rojas, Mariette Annergren, KTH
 Royal Institute of Technology

Session	TP8b2 Network Information Theory	WA1a-3		fied Compressed Sampling Matching	9:05 A
Chair: Dan	niela Tuninetti, University of Illinois at Chicago			Algorithm on Redundant Dictionary and lication to Sparse Channel Estimation of	
	3:30 PM - 5:10 PM		OFDM	Chen, Michael Zoltowski, Purdue Universi	
TP8b2-1	Information-Theoretic Limits of Dense Underwater Networks Won-Yong Shin, Harvard University; Daniel Lucani, Universidade do Porto; Muriel Medard, Massachusetts Institute of Technology; Milica Stojanovic, Northeastern	WA1a-4	Asympt Channel	totic Analysis of Double-Scattering	9:30 A
	University; Vahid Tarokh, Harvard University	Session	WA1b	MIMO Radar and SAR	
TP8b2-2	A Two-Way Secrecy Scheme for the Scalar Broadcast Channel with Internal Eavesdroppers	Chair: Ber	ijamin Fri	edlander, University of California, Sa	nta Cruz
	Chee Yen Leow, Imperial College London; Dennis L. Goeckel, University of Massachusetts; Kin K. Leung, Imperial College London	WA1b-1		tial Processing in MIMO Radar n Friedlander, University of California, Sar	10:15 A nta
TP8b2-3	Relaying for Multiple Sources in the Absence of Codebook Information Ye Tian, Aylin Yener, Pennsylvania State University	WA1b-2	Stripma	ce Fitting Based Autofocus for up SAR lest, Jacob (Jake) Gunther, Todd Moon, Uta	10:40 A
TP8b2-4	Compound Codes for Optimal Repair in MDS Code Based Distributed Storage Systems Viveck Cadambe, University of California, Irvine; Cheng Huang, Microsoft Research; Jin Li, Sanjeev Mehrotra, Microsoft Research Redmond	WA1b-3	MIMO I Tariq Qu	ty r Estimation and Compensation in Radar with Unitary Waveform Schedu ureshi, Michael Zoltowski, Purdue Universi Calderbank, Duke University	
TP8b2-5	Effects of Range Expansion and Interference Coordination on Capacity and Fairness in Heterogeneous Networks Sayandev Mukherjee, Ismail Guvenc, DoCoMo USA Labs	WA1b-4	Correct Real SA Judith No	Use of Fractional Autocorrelation to Mismatches for Chirp Scale Focusing AR Image Formation orthrop, Antonia Papandreou-Suppappola, State University	
TP8b2-6	An Extended Etkin-Type Outer Bound on the Capacity of the Gaussian Interference Channel	Session		OFDM	
TP8b2-7	Anas Chaaban, Aydin Sezgin, University of Ulm Communication Strategies to Ensure Generic Networked	Chair: Ant	onia Mari	ia Tulino, Bell-Labs	
11 002-7	Observability in Multi-Agent Systems Mohammadreza Doostmohammadian, Usman Khan, Tufts University	WA2a-1	OFDM	omplexity EM-Based Decoding for Systems with Impulsive Noise Wassar, Brian Evans, University of Texas at	8:15 A
TP8b2-8	Error Probability Bounds for Binary Relay Trees with Unreliable Communications Zhenliang Zhang, Ali Pezeshki, Colorado State University; William Moran, University of Melbourne; Stephen	WA2a-2	Accurat of Phase Pramod	te Characterization and Compensation te Noise in OFDM Receiver Mathecken, Taneli Rithonen, Stefan Wernen to, Aalto University	8:40 A
	Howard, Defence Science and Technology Organization; Edwin Chong, Colorado State University	WA2a-3		Programming for Tone Reservation M/DD Optical OFDM Communication	9:05 A
Session	WA1a Channel Estimation for Multi-		Liang Ch	hen, NICTA Victoria Research Laboratory;	
	Antenna Systems			Ji, National Institute of Informatics; Brian d, Jamie Evans, NICTA Victoria Research	

Laboratory

Analytical Link Performance Evaluation of

LTE Downlink with Carrier Frequency Offset

Qi Wang, Markus Rupp, Vienna University of Technology

WA2a-4

9:05 AM

9:30 AM

10:15 AM

10:40 AM

11:05 AM

11:30 AM

8:15 AM

8:40 AM

9:05 AM

9:30 AM

Antenna Systems

Chair: Mérouane Debbah, SUPELEC, France

Close-Range Outdoor Wireless Channel WA1a-1 8:15 AM Sounding Scott E. Johnston, Paul D. Fiore, MIT Lincoln Laboratory

Channel Aging Effects in CoMP WA1a-2 8:40 AM Transmission: Gains from Linear Channel Prediction Lars Thiele, Bho Matthiesen, Michael Olbrich, Konstantinos Manolakis, Slawomir Stanczak, Fraunhofer Heinrich Hertz Institute

Session Chair: Mic	WA2b Beamforming hael Joham, Technical University Munich		WA3b-3	Distributed-Ap	ation Errors in Compressive perture Radar Sensing o Sharma, Georgia Tech Research In.	11:05 AM
WA2b-1	Design of Beamforming in the Satellite Downlink with Static and Mobile Users Andreas Gründinger, Michael Joham, Wolfgang Utse Technische Universität München		WA3b-4	Application of Detection to S Lawrence E. Ho T. Williams, SPA	From Transition of Compressive Sampling and pectral Target Signatures fift, Hoff Engineering; David Buck, B. (WAR System Center; Edward M. Witter Associates; Miaoli Yu, SAIC	11:30 AM rian
WA2b-2	Array and Beamformer Design for Optimal Directivity	10:40 AM	Session '		operation & Relays	
WA2b-3	Jean Jacques Fuchs, Université de Rennes 1 Coordinating Complementary Waveforms for	11:05 AM	Chair: Emi	liano Dall'Anes	e, University of Minnesota	
W120 3	Sidelobe Suppression Wenbing Dang, Ali Pezeshki, Colorado State Universtephen Howard, Defence Science and Technology Organisation; William Moran, University of Melbou. Robert Calderbank, Duke University	sity;	WA4a-1	Wiretapper Sungsoo Kim, St Harvard Univer	*	
WA2b-4	Robust Transmit Nulling in Phased Array Antennas Peter Vouras, Jean DeGraaf, Naval Research Labora	11:30 AM	WA4a-2	Protocol and E	Cooperation with Power Control: Experimental Results Inter, Myuran Kanga, Lin Zhong, Ash Ev University	
Session \	WA3a Information Theoretic Signa Processing	ıl	WA4a-3		ysical-Layer Network Coding e Uplink of the Two-Way Relay	9:05 AM
Chair: John	n Walsh, Drexel University			Stephan Pfletsch	ninger, Centre Tecnològic de ons de Catalunya (CTTC)	
WA3a-1	Modeling Noisy Feedback in Decentralized Self-Configuring Networks Samir Medina Perlaza, Merouane Debbah, Supélec	8:15 AM	WA4a-4	Empowering I Exploiting Dir	Full-Duplex Communication by rectional Diversity felissa Duarte, Rice University; Chri	9:30 AM
WA3a-2	Local Failure Localization in Large Sensor Networks	8:40 AM		Dick, Xilinx, Inc	c.; Ashutosh Sabharwal, Rice Univers	sity
	Romain Couillet, Supélec; Walid Hachem, CNRS-Tel ParisTech	lecom	Session '		lltiuser Information Theo	ry
WA3a-3	Cooperative Radar Techniques: The	9:05 AM	-	•	vlvania State University	
	Two-Step Detector Max Scharrenbroich, Michael Zatman, QinetiQ Nort America		WA4b-1	Channel Mohammad (An	cast Region of Broadcast nir) Khojastepour, NEC Laboratories lireza Keshavarz-haddad, Shiraz	10:15 AM
WA3a-4	Studying on Performance Behavior of the Compressive Sensing Measurements for Multip	9:30 AM ple		University	ureza Kesnavarz-nadada, Shiraz	
	Sensor System Sangjun Park, Hwanchol Jang, Heung-No Lee, Gwa Institute of Science and Technology	•	WA4b-2	Processing En	an Z-Interference Channel with ergy Cost ip, Polytechnic Institute of New York	
Session \	WA3b Compressive Imaging and D	etection	WA4b-3	On the Sum C	apacity of the Y-Channel	11:05 AM

WA4b-4

Anas Chaaban, Aydin Sezgin, University of Ulm; Amir

Cooperation in the Strong Cooperation Regime:

Shuang (Echo) Yang, Daniela Tuninetti, University of

Symmetric Capacity to within 2 bits/s/Hz with Dirty

11:30 AM

Salman Avestimehr, Cornell University

Interference Channels with Source

Paper Coding

Illinois, Chicago

Compressive Imaging and Detection

Chair: Aleksandar Dogandzic, Iowa State University

WA3b-1 Multi-Static Radar Imaging via Bayesian 10:15 AM Raghu Raj, U.S. Naval Research Laboratory; Zachary Chance, David Love, Purdue University

WA3b-2 A Mask Iterative Hard Thresholding 10:40 AM Algorithm for Sparse Image Reconstruction with Known Object Contour Aleksandar Dogandzic, Kun Qiu, Iowa State University

Session	WA5a	Signal Theory and Image		WA6a-3		roblems in the Analysis of Possibly	9:05 AM	
		Representation				ationary Data Thomson, Queen's University		
Chair: P. I	P. Vaidyanai	han, California Institute of Technolo	ву	WA6a-4		d Summary for Sidelobe Level	9:30 AM	
WA5a-1	Analysis a Asha Vijaya Technologi	d Design of Unequal Order and Synthesis Filterbanks akumar, Anamitra Makur, Nanyang cal University	8:15 AM		with Art Siddharth / Harvard	tion for Linear and Planar Random An oitrary Element Distributions ha Krishnamurthy, MIT Lincoln Laborator of University; Daniel Bliss, MIT Lincoln ory; Vahid Tarokh, Harvard University	•	
WA5a-2	Coding in	Dictionaries for Local Sparse Image Classification	8:40 AM	Session '		Source Separation		
	Jayaraman State Unive	J. Thiagarajan, Andreas Spanias, Arizon ersitv	а	Chair: Win	g-Kin Ma,	, Chinese University of Hong Kong		
WA5a-3	Designing Youngmi H	Thin Wavelet Filters ur, Fang Zheng, The Johns Hopkins Unive	9:05 AM ersity	WA6b-1	Algorith	ison of Varieties of Kalman Filtering ams Applied to Single Microphone Bli		
WA5a-4	Inputs to 1	n of Signal Subspace-Constrained Linear Systems	9:30 AM		Siouar Be	ource Separation ensaid, Dirk Slock, Eurecom		
Session		Andreas Spanias, Arizona State Universitj Biometrics	V	WA6b-2	Approac	into the Frequency Domain ICA/IVA ch lang, UBS; Alireza Masnadi-Shirazi, Bhash		
Chair: <i>Ma</i>	rios Savvide	s Savvides, Carnegie Mellon Univers	sity			versity of California, San Diego	ur D.	
WA5b-1	Video Thang Ba I	Dinh, Jongmoo Choi, Gérard Medioni, of Southern California	10:15 AM	WA6b-3	Quasi-Si Subspac <i>Ka-Kit Le</i>	lentification of Mixtures of tationary Sources Using a Khatri-Rao ee Approach ee, Wing-Kin Ma, Chinese University of Ho		
WA5b-2	Quality D	riven Face Recognition System for ace Cameras	10:40 AM		National	-Lin Chiou, Tsung-Han Chan, Chong-Yung Tsing Hua University		
	Saad Bedro	os, Yadhunandan U.S., Gurumurthy an, Honeywell		WA6b-4	Signed U	ed Subspace Intersection Based on URV Decomposition , Alle-Jan van der Veen, Delft University o	11:30 AM	
WA5b-3	Improved Texture St	2	11:05 AM		Technolog	89		
	Vishnu Nar	esh Boddeti, B.V.K. Vijaya Kumar, Krishn	ıan	Session WA7a Multi-core/GPU Implementation				
WA5b-4		Carnegie Mellon University	11:30 AM	Chair: Jorn	n Jannick,	Lund University, Sweden		
WA30-4	Waveform Marc O Gr Incorporate	quency Cardiopulmonary n for Subject Identification iofa, Noninvasive Medical Technologies, ed; Rebecca Blue, Orlando Health; Aaron ng Hu, Marios Savvides, Carnegie Mellon	1	WA7a-1	Decodin Guohui V	Accelerated Scalable Parallel ag of LDPC Codes Yang, Michael Wu, Yang Sun, Joseph R. o, Rice University	8:15 AM	
	University			WA7a-2	_	Performance Area-Efficient AES r on a Many-Core Platform	8:40 AM	
Session		Computational Aspects in A	rray			Bevan Baas, University of California, Dav	is	
		Processing		WA7a-3		Implementation of the Wideband	9:05 AM	
	rist Richmon					at Signal-Subspace (CSS) Based DOA am on Single core, Multicore and GPU		
WA6a-1	Covarianc	ementation of Sparse Iterative re-Based Estimation for Array Proces g, Habti Abeida, Ming Xue, William Rowe			Mohamm Toledo	nad Wadood Majid, Mohsin Jamali, Univer	sity of	
		ity of Florida	, oun	WA7a-4		Grained Parallel Implementation of a AVC Encoder on a 167-Processor	9:30 AM	
WA6a-2	Capon Be	ace of Sample Covariance Based aring Only Tracker mond, Robert Geddes, MIT Lincoln	8:40 AM		Computa Zhibin Xi	ational Platform iao, University of California, Davis; Steph poration; Bevan Baas, University of Calife		

Davis

Laboratory; Ramis Movassagh, Alan Edelman,

Massachusetts Institute of Technology

Session WA7b Reconfigurable Architectures, Algorithms and Applications

Chair: Kenneth Jenkins, Pennsylvania State University

- WA7b-1 Designs of Angle-Rotation in Digital 10:15 AM
 Frequency Synthesizer/Mixer Using Multi-Stage
 Architectures
 Shen-Fu Hsiao, Cheng-Han Lee, Yen-Chun Cheng,
 National Sun Yat-sen University; Andrew Lee, University
 of California, Berkeley
- WA7b-2 Exploration of Sign Precomputation-Based 10:40 AM CORDIC in Reconfigurable Systems

 Scott Miller, Dian Ross, Mihai Sima, Michael McGuire,
 University of Victoria
- WA7b-3 A Reduced Routing Network Architecture for 11:05 AM
 Partial Parallel LDPC Decoders
 Houshmand Shirani-Mehr, University of California,
 Davis; Tinoosh Mohsenin, University of Maryland,
 Baltimore County; Bevan Baas, University of California,
 Davis
- WA7b-4 Automatic FFT Code Generation for FPGA 11:30 AM with High Flexibility and Human Readability

 John O'Sullivan, Institute for System Level Integration

 / Steepest Ascent Ltd.; Stephan Weiss, University of

 Strathclyde; Garrey Rice, Steepest Ascent Ltd.

Author List

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Akoum, Salam		Berioli, Matteo	
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Al-Ani, Mustafa		Bernat, Edward	
Albera, Laurent		Besson, Olivier	
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Allison, Dennis		Bhatnagar, Manay	
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Baghdasaryan, Areg		Boddeti, Vishnu Naresh	
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Chakraborty, Bhavana TP8b1-2 Clements, Mark TP8a2-5 Chakraborty, Bhavana MA8b5-6 Clerckx, Bruno TA8b1-6 Chakraborty, Debejyo TP8b1-7 Codreanu, Marian TA8b2-5 Chan, Tsung-Han WA6b-3 Codreanu, Marian TP8a1-4 Chance, Zachary WA3b-1 Coloigner, Julie MP6a-2 Chandrasekhar, Vijay TA5a-2 Colom Ikuno, Josep TP1a-2 Chang, Hong MA8b5-1 Comer, Mary MA8b4-2 Chang, Nicholas MP2b-2 Conti, Andrea TA1a-4 Chang, Tsung-Hui MA8b2-5 Corazza, Giovanni E TP6b-3 Chatzinotas, Symeon TA8a-8 Cotter, Matthew MP7b-2 Chatzinotas, Symeon TP6b-1 Couillet, Romain WA3a-2 Chen, Biao TA8b1-4 Couillet, Romain WA1a-4 Chen, Chen TA5b-3 Creusere, Charles MP7a-2 Chen, Chulong WA1a-3 Crouse, David TP5-3 Chen, David TA5a-1 Cui, Shuguang TA8b1-8 Chen,				
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	Chen, Hao	TP8a3-7		

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Dang, Jian		Dupret, A
Dang, Wenbing		Dupuy, Fl
Dash, Shishir		Durisi, Gi
Datta, Aniruddha		Edelman,
Datta, Aniruddha		Edla, Shy
Daum, Fred		Eghbali, I
Day, Brian		Eksin, Ce
de Dinechin, Benoit		El Ayach,
de Dinechin, Florent	IVIAOD 1-0	El Rouay El Rouay
De Kerret, Paul		,
de Lamare, Rodrigo C		Eldar, You ElGamal,
De Lathauwer, Lieven		
Debbah, Merouane		El-Gamal
Debbah, Merouane		Elmedyb,
Debbah, Merouane		Elsayed,
Debbah, Mérouane		ElTantaw
DeBole, Michael		Ercegova
DeBrunner, Linda		Erdogmu
DeBrunner, Linda S		Erkip, Elz
DeBrunner, Victor		Erkip, Elz
DeBrunner, Victor		Ertin, Em
DeGraaf, Jean		Eryilmaz,
DeMino, Alicia		Estrela, V
Deng, Qingxiong		Etesami,
DeVilbiss, Stewart		Evans, B
Devillers, Bertrand		Evans, Ja
Di Nunzio, Luca		Evans, Ja
Dick, Chris		Everett, E
Dietl, Guido		Fahmy, H
Dimakis, Alexandros		Faiz, Moh
Dimakis, Alexandros	IA4b-4	Fakooriar
Dimakis, Alexandros G		Fan, H. H
Ding, Quan		Fan, How
Dinh, Thang Ba		Fan, Jian
Djuric, Petar		Fan, Jian
Djuric, Petar		Fan, Jing
Dobigeon, Nicolas		Fannjian
Doerschuk, Peter C		Farhang-
Dogandzic, Aleksandar		Fazel, Fa
Dolecek, Lara		Fazel, Ma
Dolecek, Lara		Fazzolari
Dolecek, Lara		Fink, Alex
Doostmohammadian, Mo	nammadreza TP8b2-7	Fiore, Pa
Doroslovacki, Miloš		Flynn, Mi
Dougherty, Edward		Forero, P
Dougherty, Edward		Foroozan
		Fowler, J
Dougherty, Edward R Dougherty, Edward R		Fowler, N
		Fragouli,
Du, Huigin		Frankford
Du, Huiqin		Friedland
Duan, Ling-Yu		Friedland
Duarte, Melissa	TA 0 2 4	Friedland
Duman, Tolga	1A8a3-4	Fried-Oke

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Dupret, Antoine	MA8b4-5
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Edelman, Alan	
Edla, Shwetha	
Eghbali, Homa	
Eksin, Ceyhun	
El Ayach, Omar	
El Rouayheb, Salim	
El Rouayheb, Salim	
Eldar, Yonina C	TDE 0
ElGamal. Hesham	
El-Gamal, Hesham	
Elmedyb, Thomas Bo	
Elsayed, Khaled	
ElTantawy, Ahmed M	
Ercegovac, Milos D	
Erdogmus, Deniz	
Erkip, Elza	
Erkip, Elza	
Ertin, Emre	
Eryilmaz, Atilla	
Estrela, Vania V	
Etesami, Seyed Rasoul	TA4b-3
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Fahmy, Hossam A. H	MA8b1-1
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Fannjiang, Albert	
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Fazel, Fatemeh	MP4a-3
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Fazzolari, Rocco	
Fink, Alex	
Fiore, Paul D	
Flynn, Michael J	
Forero, Pedro	
Foroozan, Foroohar	
Fowler, James	
Fowler, Mark	
Fragouli, Christina	
Frankford, Mark	
Friedlander, Benjamin	
Friedlander, Benjamin Friedlander, Benjamin	
Fried-Oken, Melanie	
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Fuchs, Jean Jacques		Guo, Rui	
Fuchs, Jean Jacques		Gustafsson, Oscar	
Fuchs, Jean Jacques		Guvenc, Ismail	
Gabriel Gussen, Camila Ma		Haardt, Martin	MP6a-3
Gabrys, Ryan	TA8a3-1	Haardt, Martin	
Gans, Michael	TA8b1-4	Hachem, Walid	MA4b-3
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Gibson, Jerry		Heidarpour, Reza	
Gilani, Syed Z		Hermundstad, Ann	
Girod, Bernd		Hero, Alfred	
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Girod, Bernd		Hero, Alfred O	
Glick, Rebecca		Hild II, Kenneth E	
Godrich, Hana		Himed, Braham	
Godrich, Hana		Hjørungnes, Are	
Goeckel, Dennis		Hlawatsch, Franz	
Goeckel, Dennis		Hlinka, Ondrej	
Goeckel, Dennis L		Ho, Tracey	
Goksu, Fikri		Hoff, Lawrence E	
Goma, Sergio		Honeine, Paul	
Gomes, Joao Pedro	MA4b-4	Honeine, Paul	
Goutsias, John		Hong, YW. Peter	
Greenwood, Garrison		Ho-Phuoc, Tien	
Gribonval, Rémi		Hopkins, Joseph	
Gründinger, Andreas		Hoshi, Masaru	
Grzeszczuk, Radek		Hou, Jianjun	
Grzeszczuk, Radek		Hovareshti, Pedram	
Gubner, John		Howard, Stephen	
Guérin-Dugué, Anne		Howard, Stephen	
Gunther, Jacob (Jake)		Hoydis, Jakob	
Gunther, Jacob (Jake)		Hsiao, Shen-Fu	
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Hush, Don		
Hwang, Suk-seung		
Ibrahimi, Morteza		
lenne, Paolo		
Ihler, Alexander		
Inamori, Mamiko		
Ince, Nuri F		
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Ivanov, Ivan		
lwen, Mark		
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Jaberipur, Ghassem		
Jadbabaie, Ali		
Jaech, Aaron		
Jafar, Syed		
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2	Jensen, Jesper	
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6	Ji, Yusheng	
2	Jiang, Hua	
5	Jiang, Yuebing	
0	Jiao, Bingli	
2	Jin, Shi	
4	Jing, Yindi	
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1	Kandula, Viswanadh	TA8a4-3
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3	Kanoria, Yashodhan	
4	Kanterakis, Emmanuel	
1	Kar, Soummya	
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4	Katsaggelos, Aggelos K	MP5h-1
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7	Keeter, Matthew	
2	Keller, Lorenzo	
4	Keshavarz-haddad, Alireza	
4	Keviczky, Tamas	
3	Khajehnejad, Amin	
ა 4	Khan, Usman	
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1	Khan, Usman A Khandani, Amir	
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3	Khisti, Ashish	
4	Khisti, Ashish	
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3	Kim, Dongku	
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4	Kim, Seung-Jun	
3	Kim, Sungsoo	
3	Kim, Taejoon	
4	Kirachaiwanich, Davis	
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2	Koch, Peter	TA7-7

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Kommi, Mahesh	TA7-2	Li, Qiang		Makur, Anamitra
Kountouris, Marios	MP4b-2	Li, Shang	TA1a-3	Malin, Anna
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Krishnamurthy, Vikram		Li, Zhi	MA2b-3	Manduca, Armando
Krishnamurthy, Vikram		Liang, Qilian	TP5-2	Mangharam, Rahul
Kristem, Vinod		Liang, Qilian		Manolakis, Konstantinos
Kroger, Jim		Liang, Ying Chang		Mao, Zhoujia
Krongold, Brian		Liang, Ying-Chang		Mardani, Morteza
Krzymien, Witold		Lin, Chao		Margetts, Adam
Kubichek, Robert		Lin, Yenting		Margetts, Adam
Kullberg, Joel		Lindhé, Magnus		Marshall, Alan
Kultala, Heikki		Litt, Brian		Marzetta, Thomas
Kumar, B.V.K. Vijaya		Liu, Bin		Masmoudi, Ahmed
Kumatani, Kenichi		Liu, Chih-Hao		Masnadi-Shirazi, Alireza
Kyriakides, Alexandros		Liu, Guangyi		Masouros, Christos
		••		,
Larsson, Erik G		Liu, Guifeng		Matamoros, Javier
Laska, Jason		Liu, Hao		Mateos, Gonzalo
Latva-aho, Matti		Liu, Juan		Mathecken, Pramod
Latva-aho, Matti		Liu, Shihuan		Mathew, Sanu
Latva-aho, Matti		Liu, Xi		Matthaiou, Michail
Lau, Vincent K.N		Liu, Yong		Matthews, Brett
Layek, Ritwik		Liu, Yupeng		Matthiesen, Bho
Le, Stephen		Lombardo, Francesco		Matz, Gerald
Learned, Rachel		Long, Darrell		Maymon, Shay
Lederer, Christian		Loubaton, Philippe		Mazzotti, Matteo
Lee, Andrew		Love, David		McDonough, John
Lee, Cheng-Han		Love, David		McEachen, John
Lee, Heung-No	TA8a2-3	Lozano, Angel		McGuire, Michael
Lee, Heung-No		Lu, Wu-Sheng		McIlhenny, Robert
Lee, Joseph		Lu, Yung-Hsiang		McKay, Matthew
Lee, Junghsi		Lucani, Daniel		McKay, Matthew
Lee, Ka-Kit	WA6b-3	Luk, Wayne	MP8a5-6	McKay, Matthew
Lee, Sang Hyun	TP2b-5	Lumsdaine, Andrew		McMichael, Joseph G
Lehman, Jill		Luo, Zhi-Quan	MP1b-1	McPherson, D.B
Leow, Chee Yen		Luo, Zhi-Quan	TA8b1-9	Meas-Yedid, Vannary
Lepistö, Mikael	MP7b-4	Lutz, David	TP7b-4	Medard, Muriel
Leung, Kin K	TP8b2-2	Lyubeznik, Gennady	MP1b-1	Medard, Muriel
Leus, Geert	TP6a-1	Ma, Wing-Kin	MA8b2-6	Medina Perlaza, Samir
Li, Geoffrey Ye	TA8b1-1	Ma, Wing-Kin	WA6b-3	Medioni, Gérard
Li, Geoffrey Ye	TA8a3-7	Ma, Wing-Kin	TP8a1-6	Mehrotra, Sanjeev
Li, Hongbin		Ma, Xiaoli		Mehrotra, Sanjeev
Li, Huaying		Maashri, Ahmed Al	MP7b-2	Mehta, Neelesh B
,,,,,,,,,,		Macagnano, Davide		Mencer, Oskar
Li, Jian		Macrae, Andrew		Meng, Jia
Li, Jian		Madhow, Upamanyu		Meng, Jia
Li, Jiangyuan		Madhow, Upamanyu		Merched, Ricardo
, o.a.,gyaan	MA2b-2	Madhow, Upamanyu		Merz, Ruben

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Mahahalagiri Anvith	IVIP0a-1
Mahabalagiri, Anvith	
Mailhes, Corinne	
Maina, Ciira	
Makur, Anamitra	
Malin, Anna	IP8b1-2
Mallada, Enrique	
Mallik, Ranjan K	
Malloy, Matthew	
Mandic, Danilo	
Manduca, Armando	
Mangharam, Rahul	
Manolakis, Konstantinos	
Mao, Zhoujia	
Mardani, Morteza	MP4a-2
Margetts, Adam	TA8b2-8
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Marshall, Alan	MP8a5-8
Marzetta, Thomas	
Masmoudi, Ahmed	
Masnadi-Shirazi, Alireza	WA6b-2
Masouros, Christos	
Matamoros, Javier	
Mateos, Gonzalo	
Mathecken, Pramod	
Mathew, Sanu	
Matthaiou, Michail	
Matthews, Brett	
Matthiesen, Bho	
Matz, Gerald	
Maymon, Shay	
Mazzotti, Matteo	
McDonough, John McEachen, John	
McGuire, Michael	
McIlhenny, Robert	
McKay, Matthew	
McKay, Matthew	
McKay, Matthew	
McMichael, Joseph G	
McPherson, D.B	
Meas-Yedid, Vannary	
Medard, Muriel	
Medard, Muriel	
Medina Perlaza, Samir	WA3a-1
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Meng, Jia	
Meng, Jia	
Merched, Ricardo	
Merz, Ruben	

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Mettu, Ramgopal	
Miller, Ethan	
Miller, Scott	
Min, Jae Hong	
Mittal, Anish	
Moallemi, Nasim	
Mogensen, Preben	TA8a3-2
Moh, Melody	TP8a3-1
Mohammed, Abbas	TP6b-5
Mohsenin, Tinoosh	
Molisch, Andreas	
Mondragon-Torres, Antonio	
Monga, Vishal	
Montanari, Andrea	
Montanari, Andrea	
Moody, Daniela	
Moon, Todd	
Moon, Todd	IA0a2-1
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Moorthy, Anush	
Moran, William	
Moran, William	
Morrison, Kyle	
Mørup, Morten	
Mørup, Morten	
Moshksar, Kamyar	
Mostofi, Yasamin	
Moura, Jose'	
Moussa, May	
Movassagh, Ramis	WA6a-2
Mudumbai, Raghu	MA6b-1
Muhaidat, Sami	TA2b-1
Muharar, Rusdha	TP1a-1
Mukherjee, Amitav	MA8b3-1
Mukherjee, Sayan	
Mukherjee, Sayandev	
Murch, Ross	
Mutlu, Ali Yener	
Myers, Kary	
Myers, Kary	
Myllyla, Markus	
Nadakuditi, Raj Rao	
Nadakuditi, Raj Rao	
Nafie, Mohammed	
Nafie, Mohammed	
Naguib, Ahmed	
Naguib, Ayman	
Namvar Gharehshiran, Omid	
Narayanan, Ram	
Narayanan, Vijaykrishnan	
Nascimento, Vitor	TP3b-1
Nassar, Marcel	WA2a-1

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valesan Namamurliny, Naflfill	TP3a-3	Pappas, George J	
Nedic, Angelia		Parag, Parimal	
Neely, Christopher		Parandeh Afshar, Hadi	
Neely, Michael		Parhami, Behrooz	
Negro, Francesco		Parhi, Keshab K. Parh	
Nehorai, Arye			
Neifeld, Mark		Park, Sangjun	
Nejati, Saeed		Parker, Jason	
Nelson, Douglas		Parker, Lyndsi	
Nelson, Douglas		Pattichis, Marios Paul, Grégory	
Nelson, Jill		Paul, Steffen	
Nelson, Jill		Pawar, Sameer	
Nemzek, Robert		Pawar, Sameer	
Newstadt, Gregory			
Noorshams, Nima		Pawley, Norma	
Nooshabadi, Saeid		Pawley, Norma	
Northrop, Judith		Paydarfar, David Pearce, Allison	
Nosrat-Makouei, Behrang		Pellizzer, Guiseppe	
Nossek, Josef A		, ,,	
Nowak, Robert		Peng, Bingguang Pennanen, Harri	
O Griofa, Marc		Pérez-Neira, Ana	
O'Connor, Sean J		•	
Odeh, Maha		Peroulis, Dimitrios	
Ogunfunmi, Tokunbo		Pesavento, Marius	
Okeke, Godfrey		Petropulu, Athina	
Oken, Barry		Petropulu, Athina	
Olbrich, Michael		Petropulu, Athina	
Olivo-Marin, Jean-Christophe		Petropulu, Athina	
Ong, Madeleine		Pezeshki, Ali	
Oppenheim, Alan V		Pezeshki, Ali	
Oppenheimer, Michael		Pezeshki, Ali	
Orhan, Umut		Pfletschinger, Stephan	
Ortega, Antonio		Phillips, Brian	
O'Sullivan, John		Pitris, Costas	
Ottersten, Bjorn		Plank, James	
Ottersten, Björn		Plawecki, Martin H	
Ozel, Omur		Polak, Adam	
Ozel, Omur		Pollak, Ilya	
Ozil, Ipek		Pollak, Seth	
Pahlavan, Kaveh		Ponnuru, Sandeep	
Pajic, Miroslav		Poor, H. Vince	
Pal, Piya		Poor, H. Vincent	
Pal, Piya Pal, Piya		Poor, H. Vincent	
		Poor, H. Vincent	
Pal, Ranadip	TA1a.4	Pope, Graeme	IP3a-
		Pourhomayoun, Mohammad	
Papadonaulos Haralabos		Prasad, Narayan	
Papadopoulos, Haralabos		Preciado, Victor	
Papandreou-Suppappola, Ant		Principe, Jose	
Papandreou-Suppappola, Ant	tonia TP8b1-2	Proakis, John	
Papandreou-Suppappola, Ant		Pugh, Matthew	
r apanaroou-ouppappoia, Am	WA1b-4	Qian, Xiaoning	
Papandreou-Suppappola, Ant		Qiu, Kun	
. apanaiooa oappappoia, Am		Qureshi, Tariq	WA1b-

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Radhakrishnan, Chandrashek	
Radosevic, Andreja	TA8a3-4
Rahmatollahi, Golaleh	
Raj, Bhiksha	
Raj, Bhiksha	
Raj, Raghu	
Rajawat, Ketan	
Rajesh, Ramachandran	
Rambo-Rodenberry, Michelle.	TA8a4-3
Ramchandara, Preethi	MA8b4-7
Ramchandran, Kannan	TA2a-3
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Ramkumar, Krishnan	
Ramprashad, Sean	
Rangarajan, Sampath	
Rangaswamy, Muralidhar	TP6a-4
Rao, Bhaskar D	
Rao, Bhaskar D	TA8a3-3
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Ratnarajah, Tharm	TA8b1-3
Ratnarajah, TharmRatnarajah, Tharm	TP8a4-5
Ratnarajah, Tharm	MP1a-1
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Razaviyayn, Meisam	MP1b-1
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Re, Marco	
Rebeiz, Eric	TA7-8
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Ren, Jie	TA8b1-16
Rezaee, Arman	MA2b-1
Rezki, Zouheir	
Ribeiro, Alejandro	MA4b-1
Ribeiro, Alejandro	TP4a-2
Rice, Garrey	WA7b-4
Richard, Cédric	TP8b1-5
Richard, Cédric	MP8a1-3
Richmond, Christ	WA6a-2
Richter, Andreas	MP8a3-8
Riedel, Marc D	MP8a5-7
Riedl, Thomas	
Riihonen, Taneli	TP1a-4
Riihonen, Taneli	WA2a-2
Ritcey, James	
Roark, Brian	MA7b-4
Rodriguez, Paul	MP5b-4
Roemer, Florian	MP6a-3
Rogers, Uri	TP8a3-8
Rojas, Cristian R	
Romberg, Justin	
Romero, Sabrina	
Rosca, Justinian	
Rosenthal, Daniel	
Ross. Dian	WA7b-2

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3	Rossetto, Francesco	
1	Rossi, Marco	TP5-8
3	Rossi, Michele	TP2b-4
3	Roufarshbaf, Hossein	MA8b5-5
1	Rowe, William	WA6a-1
1	Ruan, Liangzhong	
3	Rueetschi, Andrea	
}	Rupp, Markus	TP3b-2
3	Rupp, Markus	
7	Rupp, Markus	
3	Rupp, Markus	
l	Sabharwal, Ashutosh	
3	Sabharwal, Ashutosh	
1	Sadek, Ahmed	
1 3		
1	Salama, Khaled N	
	Salama, Khaled Nabil	
2	Salim, Umer	
3	Salisbury, Elisabeth	IA10-2
7	Sanada, Yukitoshi	
2	Sánchez Castillo, Manuel	
3	Sarder, Pinaki	
5	Sarkar, Md. Zahurul I	
1	Sarmadi, Nima	
3	Sartipi, Mina	
	Sauvonnet, Nathalie	
9	Savvides, Marios	
5	Sayed, Ali	
3	Sayed, Ali	
	Sayed, Ali H	
6	Sayed, Faten	
1	Sayilir, Serkan	
7	Sbalzarini, Ivo F	
1	Scaglione, Anna	
2	Scaglione, Anna	
1	Scharf, Louis	
5	Scharf, Louis	TP8a3-3
3	Scharrenbroich, Max	
2	Schauer, Justin	MA8b1-7
3	Schlereth, Fred	MP7a-4
7	Schniter, Philip	TP3a-4
5	Schniter, Philip	TA8b2-8
1	Schniter, Philip	
2	Schniter, Philip	
5	Schober, Robert	
1	Schulte, Michael J	TP7b-3
1	Schulte, Michael J	
3	Sellathurai, Mathini	
3	Sen Gupta, Ananya	TA8a2-4
3	Seng, Shay	
2	Senhadji, Lotfi	
1	Seto, Koji	
5	Severi, Stefano	
2	Sezgin, Aydin	TP8b2-6
2	Sezgin, Aydin	
	• · ·	

NAME Sezgin, Aydin	SESSION	NAME Stewart, Kyle	SESSION
Shafer, Andrew		Stoica, Petre	
ShahbazPanahi, Shahram		Stojanovic, Milica	
ShahbazPanahi, Shahram		Stojanovic, Milica	
Shamai, Shlomo		Stojanovic, Milica	
Shamaiah, Manohar		Strohmer, Thomas	
Shannon, Lesley		Studer, Christoph	
Sharma, Amy		Sturm, Bob	
Sharma, Vinod		Sturm, Bob	
Shellhammer, Stephen		Su, Wei	
Shelton, Christian		Sullivan, Michael	
Shen, Cong		Sumer, Ozgur	
Shi, Wei		Sun, Chang	
Shia, Victor		Sun, Liang	
Shim, Byonghyo		Sun, Shaohui	
Shin, Won-Yong		Sun, Yang	
Shin, Won-Yong		Sun, Yifan	
Shirani-Mehr, Houshmand		Sundaram, Shreyas	
Shroff, Ness B		Svensson, Lennart	
Shynk, John J		Swami, Ananthram	
Shynk, John J		Swaminathan, Gurumurthy.	
Siddenki, Srikant		Swar, Pranay Pratap	
Sigworth, Fred J.		Swartzlander, Earl	
Sima, Mihai		Swartzlander, Earl	
Simeone, Osvaldo		Swartzlander, Earl	
Simeone, Osvaldo		Swindlehurst, A. Lee	
Simeone, Osvaldo		Swindlehurst, A. Lee	
Simko, Michal		Swindlehurst, Lee	
Singer, Andrew		Tadipatri, Vijay Aditya	
Singer, Andrew		Tadrous, John	
Singh Alvarado, Alexander .	TΔ1h-1	Tagare, Hemant	
Sinopoli, Bruno		Takacs, Gabriel	
Sklivanitis, George		Takahashi, Keita	
Slavinsky, J.P.		Takala, Jarmo	
Slivinski, Laura		Takeda, Hiroyuki	
Slock, Dirk		Tan, Kenneth	
Slock, Dirk		Tanaka, Yuichi	
Sluciak, Ondrej		Tanaka, Yuichi	
So, Anthony Man-Cho		Tang, Ao Kevin	
Soderstrand, Michael		Tapparello, Cristiano	
Song, Bin		Taranetz, Martin	
Song, Lingyang		Tarczynski, Andrzej	
Soni, Akshay	TA8h3-5	Tarokh, Vahid	
Sorensen, Mikael		Tarokh, Vahid	
Sørensen, Troels B		Tewfik, Ahmed	
Spanias, Andreas		Tewfik, Ahmed H	
Spanias, Andreas		Thiagarajan, Jayaraman J	
Spanias, Andreas		Thibault, Ilaria	
Spanias, Andreas		Thiele, Lars	
Sridharan, A		Thomson, David J	
Srinivas, Umamahesh		Tian, Ye	
Stafford, Phillip		Tibau-Puig, Arnau	
Stanczak, Slawomir		Tienda Luna, Isabel María	
Steinwandt, Jens		Tölli, Antti	
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NAME Tommy, Tommy	SESSION TP6b-5	NAME Wagner,
Tonelli, Oscar		Wahlberg
Tourneret, Jean-Yves		Wainwrig
Tourneret, Jean-Yves		Walker,
Tramel, Eric		Walsh, J
Tran, Trac D		Walters I
Trefzer, Martin		Wang, G
Truong, Kien T.		Wang, Ji
Trzasko, Joshua		Wang, Ji
Tsai, Sam		Wang, M
Tsai, Sam		Wang, P
Tu, Sheng-Yuan		Wang, Q
Tugnait, Jitendra		Wang, Q
Tugnait, Jitendra		Wang, X
Tulino, Antonia		Wang, X
		-
Tummala, Murali Tuninetti, Daniela		Wang, X
		Wang, X
Tuninetti, Daniela		Wang, Y
Tutuncuoglu, Kaya		Waters, A
Tuuk, Peter		weeradd
Tyrrell, Andy		Weerado
U.S., Yadhunandan		VVCCIauc
Ulukus, Sennur		Weiss, S
Ulukus, Sennur		Weng, C
Urgaonkar, Rahul		Weng, Z
Urriza, Paulo		Werner,
Utschick, Wolfgang		Werner,
Uysal, Murat		West, Ro
Vaidyanathan, P. P.	TP8a1-5	West, Ro
Vaidyanathan, P. P		Wichman
Vaidyanathan, P. P.	MA8b5-8	Wichman
Vaidyanathan, P. P		Wiegand
van der Veen, Alle-Jan		Wiese, T
Vanelli-Coralli, Alessandro		Willett, P
Varshney, Pramod		Williams
Vedantham, Ramakrishna		Williams
Vedantham, Ramakrishna		Winter, E
Vempaty, Aditya		Wirth, Th
Venkateswaran, Sriram		Wong, K
Venosa, Elettra		Wong, S
Venturino, Luca		Woods, I
Verdant, Arnaud		Wu, Gan
Verdú, Sergio		Wu, Jinh
Vijayakumar, Asha	WA5a-1	Wu. Mich
Vikalo, Haris		Wu, Ting
Vikalo, Haris		Wulsin, [
Vila, Jeremy		Wylie, Ja
Villa, Tania		Wyrembe
Vishwanath, Sriram		Wyrembe
Vorobyov, Sergiy		Xia, Che
Vorobyov, Sergiy		Xia, Crie
Vouras, Peter		Xia, Xiao
Vu, Duc		Xiao, Zhi
Wadood Maiid Mohammad	d WA7a-3	∧ia0, ∠N

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Wagner, Kevin	TP3b-4
Wahlberg, Bo	TP8b1-8
Wainwright, Martin	
Walker, James	
Walsh, John	
Walters III, E. George	
Wang, Guohui	WA7a-1
Wang, Jiadong	
Wang, Jian	
Wang, Meng	
Wang, Pu	
Wang, Qi	WA2a-4
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Wang, Xin	
Wang, Yiyin	
Waters, Andrew	MP3a-1
Weeraddana, Pradeep Chath	uranga
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Weiss, Stephan	
Weng, Ching-Chih	TARA11
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Werner, Stefan	
Werner, Stefan	
West, Roger	
West, RogerWichman, Risto	
Wichman, Risto	
Wiegand, Till Wiese, Thomas	
Williams Brian T	
Williams, Brian T	
Williamson, James	
Winter, Edward M	
Wirth, Thomas	
Wong, Kai-Kit	
Wong, Stephen	
Woods, Roger	
Wu, Gang	
Wu, Jinhong	
Wu, Michael	WA/a-1
Wu, Ting	
Wulsin, Drausin	
Wylie, Jay	1P4b-4
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Xia, Chen	
Xia, Xiang-Gen	
Xia, Xiaofeng	
Xiao, Zhibin	WA7a-4

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Xiong, Chenrong	TA7-3
Xu, Hongbing	
Xu, Luzhou	
Xu, Weiyu	
Xu, Xiaoxiao	
Xue, Ming	
Yan, Jie	
Yan, Yuan	
Yan, Zhiyuan	
Yang, Allen	
Yang, Chao	TA8a1-13
Yang, En-hui	
Yang, Ge	
Yang, Jing	MA1b-1
Yang, Jingpei	TP4b-2
Yang, Liuqing	
Yang, Ming	
Yang, Shuang (Echo)	
Yao, Hongxun	
Yao, Shun	
Yener, Aylin	
Yener, Aylin	
Yilmaz, Yasin	TP2a-2
Yin, Qinye	
Ying, Lei	
Yoshinari, Akihiro	
Yousefi, Mohammadmahdi F	
Yu, Chi-li	
Yu, Kai	
Yu, Miaoli	
Yu, Weichuan	
Yu, Yao	
Zanella, Alberto	
Zarifi, Keyvan	
Zatman, Michael	
Zavlanos, Michael M	TP4a-2
Zeger, Linda	
Zejnilovic, Sabina	
Zerguine, Azzedine	
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Zerguine, Azzedine	
Zetterberg, Per	
Zhai, Yixuan	
Zhang, Hao	
Zhang, Honghai	
Zhang, Jiajun	MP2b-3
Zhang, Jianqiu	
Zhang, Jun	
Zhang, Jun	
Zhang, Jun Jason	
Zhang, Lin	TP8a2-2
Zhang, Qi	
Zhang, Qilin	
Zhang, Rong	

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