

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

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



November 7–10, 2010
Asilomar Hotel and
Conference Grounds

Technical Co-sponsor



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

Organized in cooperation with

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Monterey, California

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Welcome from the General Chairperson

Prof. Linda S. DeBrunner, Florida State University

It is my great pleasure to welcome you to the Forty-Fourth Asilomar Conference on Signals, Systems, and Computers. This conference provides a special opportunity for those of us who return year after year—to refresh our spirits and reinvigorate our research. I hope that those of you attending for the first time will find the conference as rewarding as I do. This conference provides an opportunity to share ideas with the top researchers in our field in a relaxed and friendly atmosphere. Be sure to take the opportunity to meet someone new at the family-style meals, and don't forget to enjoy a walk on the beach.

For the Sydney Parker Memorial Lecture, we are very fortunate to have a keynote address by Dr. Ronald W. Shafer, HP Fellow in the Media Communication and Networking Laboratory at Hewlett-Packard Laboratories. His talk, "A Celebration of DSP Technologies," will combine a retrospective look at the development of the discipline with a peek into the future. His talk will provide a unique framework to view the contributions of the conference this year.

The Asilomar Conference provides a supportive environment for students to present their research. This year we had 91 submissions to the student paper contest, chaired by Xinmiao Zhang. On Sunday afternoon before the Welcome Reception, the 9 finalists will present their posters to a panel of judges. I hope you have a chance to view their posters or hear their presentations during the sessions later in the week.

The success of this meeting is due to Miloš Doroslovački from The George Washington University. I want to thank him for making my job so enjoyable. He recruited outstanding technical area chairs, who then recruited outstanding session chairs. They all worked hard to create a superb technical program of 454 papers (including about 200 invited papers). I would like to thank the Technical Program Committee: Erik G. Larsson, Robert W. Heath, Jr., Ananthram Swami, Petar M. Djurić, Antonia Papandreou-Suppappola, Murray H. Loew, Miloš D. Ercegovic, David V. Anderson, and James A. Ritcey. I also want to thank all the session chairs and participants for making this another great Asilomar Conference.

Special thanks go to Sue Netzorg, Monique Fargues, Mike Matthews, Frank Kragh and Murali Tummala who perform the tasks that make this conference happen. Year after year they provide countless hours of service in arranging the venue and meals, publishing the proceedings, providing publicity, reviewing contracts and signing checks. I would like to personally thank each of them for their help and support.

I hope that you enjoy everything that Asilomar has to offer!

Linda S. DeBrunner, Florida State University, June 2010

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2010 Asilomar Conference Session Schedule

Sunday Afternoon, November 7, 2010

2:00 - 7:00 PM Registration — Main Lodge
4:30 - 6:30 PM Student Paper Contest — Merrill Hall
7:00 - 9:00 PM Welcoming Dessert Reception — Merrill Hall

Monday Morning, November 8, 2010

7:30 - 9:00 AM Breakfast – Crocker Dining Hall
8:00 AM - 6:00 PM Registration
8:15 - 9:45 AM MA 1a — Conference Welcome and Plenary Session
9:45 - 10:15 AM Coffee Social

10:15 AM - 12:00 PM MORNING SESSIONS

MA1b Tensors Methods in Signal Processing
MA2b MIMO Interference Networks
MA3b Security in Wireless Networks
MA4b New Trends in Sequential System Identification
MA5b Biomotivated Recognition and Detection
MA6b Computer Arithmetic I
MA7b Biological Models of Speech Perception and Their Applications in Automatic Speech Processing
MA8b1 Communication Systems I (Poster)
MA8b2 Selected Topics in Image Processing (Poster)
MA8b3 Applications of Compressive Sensing (Poster)

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

Monday Afternoon, November 8, 2010

1:30 - 5:10 PM AFTERNOON SESSIONS

MP1a Interference Channels
MP1b Trends for Future Wireless Systems
MP2a MIMO Secrecy
MP2b MIMO Relays
MP3a New Trends in Information Theory and Networks
MP3b Learning and Optimization in Dynamic Networks
MP4a Biomedical Image Analysis
MP4b Advances in Adaptive Algorithms
MP5 Statistical Signal Processing for Complex Systems
MP6 Communication Processors and Accelerators
MP7a Video Compression
MP7b Advances in Keyword Spotting
MP8a1 Communication Systems II (Poster)
MP8a2 Speech Enhancement (Poster)
MP8a3 Selected Topics in Speech and Audio (Poster)
MP8a4 Adaptive Signal Processing in Communications (Poster)
MP8a5 Array-based Estimation (Poster)

Monday Evening, November 8, 2010

6:00 - 9:30 PM Conference Cocktail/Social — Merrill Hall
The Cocktail/Social takes the place of Monday's dinner. No charge for conference attendees or their guests.

2010 Asilomar Conference Session Schedule (continued)

Tuesday Morning, November 9, 2010

7:30 - 9:00 AM Breakfast — Crocker Dining Hall
8:00 AM - 5:00 PM Registration

8:15 - 12:00 PM MORNING SESSIONS

TA1a Network Error Correction and Physical Layer Security
TA1b Coding
TA2a Signal Processing for Communications Receivers
TA2b Communications Under Doppler Spread
TA3a Recursive Reconstruction of Sparse Sequences
TA3b Self-Organizing Networks: Architectures, Protocols and Algorithms
TA4a Shape and Time in Biomedical Images
TA4b Mathematical Methods for Biomedical Signals and Images
TA5 Compressive Sensing
TA6a Reconfigurable Architectures, Algorithms and Applications
TA6b Array Processing and Beamforming
TA7 Image and Video Enhancement
TA8a1 Cooperative and Cognitive Transmission in Multi-Antenna Networks I (Poster)
TA8a2 Cognitive Networking (Poster)
TA8a3 Adaptive Signal Processing: Theory and Applications (Poster)
TA8b1 Cooperative and Cognitive Transmission in Multi-Antenna Networks II (Poster)
TA8b2 Architectures, Implementations, and Tools I (Poster)
TA8b3 Architectures, Implementations, and Tools II (Poster)

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

Tuesday Afternoon, November 9, 2010

1:30 - 5:10 PM AFTERNOON SESSIONS

TP1a Advances in Multihop and Distributed Wireless Transmission
TP1b Wireless Communications
TP2a MIMO Underwater Acoustic Communications
TP2b MIMO for Ad Hoc Networks
TP3a Non-Stationary Processing of Environments
TP3b Network Information Theory
TP4a Modeling for Biomedical Imaging
TP4b Adaptive Filters - Theory and Applications
TP5a Statistical Signal Processing for Neural Signals
TP5b Integrated Multimodal Sensing
TP6a Computer Arithmetic II
TP6b Computer Arithmetic III
TP7a Microphone Array Processing for Speech Applications I
TP7b Microphone Array Processing for Speech Applications II
TP8a1 Low Complexity Implementation and Receiver Issues (Poster)
TP8a2 Detection & Estimation in Networks (Poster)
TP8a3 Techniques in Networking and Communications (Poster)
TP8b1 Scheduling, Relaying and Routing (Poster)
TP8b2 Statistical and Adaptive Signal Processing (Poster)
TP8b3 Biomedical Signals and Images (Poster)

Tuesday Evening, November 9, 2010

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

2010 Asilomar Conference Session Schedule (continued)

Wednesday Morning, November 10, 2010

- 7:30 - 9:00 AM Breakfast — Crocker Dining Hall
8:00 AM - 12:00 PM Registration — Copyright Forms must be turned in before the registration closes at 12:00 noon.
- 8:15 AM - 12:00 PM MORNING SESSIONS
- WA1a Cooperative Communications
WA1b Communication Theory
WA2a Interference Management I
WA2b Interference Management II
WA3a Sensor Networks
WA3b Multiuser Beamforming and Interference Channels
WA4 Advances on Adaptive Filtering and Applications
WA5 Statistical Signal Processing
WA6a Estimation and Detection
WA6b SOC Architectures and Applications
WA7a Sparse Representations in Image Processing
WA7b MIMO Radar
- 12:00 - 1:00 PM Lunch — Meal tickets may be purchased at registration desk. This meal is not included in the registration.

Student Paper Contest

Merrill Hall - Sunday, November 7, 2010, 4:30 - 6:30 PM

“Outage Probability of MISO Broadcast Systems with Noisy Channel Side Information”

Alon Shalev Housfater, Teng Joon Lim, University of Toronto

“Distributed Learning under Imperfect Sensing in Cognitive Radio Networks”

Keqin Liu, Qing Zhao, University of California, Davis; Bhaskar Krishnamachari, USC

“Biologically Inspired Coupled Antenna Array for Direction of Arrival Estimation”

Murat Akcakaya, Washington University in St. Louis; Carlos H. Muravchik, Universidad Nacional de La Plata; Arye Nehorai, Washington University in St. Louis

“Weighted Sum-Rate Maximization for a Set of Interfering Links via Branch and Bound”

Chathuranga Weeraddana, Marian Codreanu, Matti Latva-aho, University of Oulu; Anthony Ephremides, University of Maryland

“A Low Energy High Speed Reed-Solomon Decoder Using Decomposed Inversionless Berlekamp-Massey Algorithm”

Hazem A. Ahmed, Hamed Salah, Tallal ElShabrawy, German University in Cairo; Hossam A. H. Fahmy, Cairo University

“p-Domain Rate Control for JPEG XR”

Duncan Chan, Jie Liang, Simon Fraser University; Chengjie Tu, Microsoft Corp.

“Achievable Rates in Two-user Interference Channels with Finite Inputs and (Very) Strong Interference”

Frederic Knabe, Aydin Sezgin, Ulm University

“Distributed Signature Learning and Calibration for Large-Scale Sensor Networks”

Naveen Ramakrishnan, Emre Ertin, Randolph Moses, The Ohio State University

“The Role of Channel Distribution Information in the Cross-Layer Design of Opportunistic Scheduler for MIMO Networks”

Sheu-Sheu Tan, University of California, San Diego; Adam Anderson, University of South Florida; James Zeidler, University of California, San Diego

2010 Asilomar Conference Session Schedule

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

Monday, November 8, 2010

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

1. Welcome from the General Chairperson

Prof. Linda DeBrunner
Florida State University

2. Session MA1a Distinguished Lecture for the 2010
Asilomar Conference

A Celebration of DSP Technology

Dr. Ronald W. Schafer
Multimedia Communication and Networking Lab
Hewlett-Packard Laboratories
Palo Alto, CA 94304

Abstract

DSP is an indispensable technology with widespread impact in many areas of application; however, it has taken 60 years or more to get to where we are today. Thus, it may be interesting and worthwhile to take a look at how the DSP technology domain originated and evolved. In this talk, I will look back at some of what I consider to be the most important milestones and the people behind them, examine some of the key interactions with other technologies, consider the importance of unfettered application-centric research, and comment on the importance of education in the evolution of DSP. The goal of this analysis is to provide a platform from which to admire and celebrate the past progress and make guesses about what the future might hold for the field of DSP.

Biography

Ronald W. Schafer received BSEE (1961) and MSEE (1962) degrees from the University of Nebraska and a Ph.D. (1968)

degree from MIT. From 1968 to 1974 he was a member of the Acoustics Research Department, Bell Laboratories, Murray Hill, NJ, where he contributed to some of the earliest research on digital signal processing. In 1974 he joined Georgia Tech as John and Marilu McCarty Professor of Electrical and Computer Engineering. Over a thirty-year academic career, he introduced literally thousands of students to the field of digital signal processing and supervised graduate student research in speech processing, image processing, biomedical signal processing, and communication signal processing. He played a major role in establishing the Center for Signal and Image Processing at Georgia Tech as a major force in DSP education and research, and in 1982 he co-founded Atlanta Signal Processors, Inc., one of the first companies to provide design tools for DSP systems.

Dr. Schafer retired from Georgia Tech as Professor Emeritus in 2004. Now he is a HP Fellow in the Multimedia Communication and Networking Laboratory at Hewlett-Packard Laboratories in Palo Alto, CA, where his research focuses on acoustic signal processing and immersive communications.

Dr. Schafer is a Fellow of the IEEE and the Acoustical Society of America, and he is a member of the National Academy of Engineering. He has co-authored numerous widely used textbooks including *Digital Signal Processing* (1975), *Digital Processing of Speech Signals* (1978), *Signal Processing First* (2003), *Discrete-Time Signal Processing* (2009), and *Theory and Application of Digital Speech Processing* (2010). He has received numerous awards for teaching and research including the 1985 Distinguished Professor Award from Georgia Tech, the 1980 IEEE Emanuel R Piori Award, the 1992 IEEE James H. Mulligan, Jr. Education Medal, and he received the 2010 IEEE Jack S. Kilby Medal.

**Program of the
2010 Asilomar Conference on
Signals, Systems, and Computers**

**Technical Program Chairman
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The George Washington University**

Session MA1b Tensors Methods in Signal Processing

Chair: *Martin Haardt, Technical University Ilmenau*

- MA1b-1 Overview of Recent Advances in Numerical Tensor Algebra 10:15 AM
Göran Bergqvist, Erik G. Larsson, Linköping University
- MA1b-2 Blind Estimation of SIMO Channels Using A Tensor-Based Subspace Method 10:40 AM
Bin Song, Florian Roemer, Martin Haardt, Ilmenau University of Technology
- MA1b-3 New Simultaneous (Generalized) Schur Decomposition Methods for the Computation of the Canonical Polyadic Decomposition 11:05 AM
Mikael Sorensen, University of Nice; Lieven De Lathauwer, K.U. Leuven
- MA1b-4 A k-dimensional Subspace-based Tensor Factorization Approach for Underdetermined Blind Identification 11:30 AM
Bahador Makki Abadi, Saeid Sanei, Dave Marshall, Cardiff University

Session MA2b MIMO Interference Networks

Chair: *Syed Jafar, University of California, Irvine*

- MA2b-1 On Relay-Interference Networks with Quantized Feedback 10:15 AM
Erdem Koyuncu, Hamid Jafarkhani, University of California, Irvine
- MA2b-2 Connecting Interference Alignment and Distributed Storage Through Rank Minimization 10:40 AM
Dimitris Papailiopoulos, Alexandros Dimakis, University of Southern California
- MA2b-3 Real Interference Alignment 11:05 AM
Abolfazl Mottahari, Shahab Oveisgharan, Mohammad Ali Maddah-Ali, Amir Khandani, University of Waterloo
- MA2b-4 On the Capacity of a Class of Degraded MIMO Z Interference Channels with Degraded Message Sets 11:30 AM
Fabio Fernandes, Sriram Vishwanath, University of Texas at Austin

Session MA3b Security in Wireless Networks

Co-Chairs: *Dennis Goeckel, University of Massachusetts, Amherst and Don Towsley, University of Massachusetts, Amherst*

- MA3b-1 From Uncertainty to Secrecy: A Dynamic Approach 10:15 AM
Sheng Xiao, Weibo Gong, Donald Towsley, University of Massachusetts
- MA3b-2 Secrecy Coverage 10:40 AM
Amites Sarkar, Western Washington University; Martin Haenggi, University of Notre Dame

- MA3b-3 Control of Wireless Networks with Secrecy 11:05 AM
C. Emre Koksal, Ohio State University; Ozgur Ercetin, Yunus Sarikaya, Sabanci University
- MA3b-4 Embedding Covert Information Flow 11:30 AM
Stefano Marano, Vincenzo Matta, University of Salerno; Lang Tong, Cornell University

Session MA4b New Trends in Sequential System Identification

Chair: *Cédric Richard, Université de Nice Sophia-Antipolis*

- MA4b-1 Adaptive Systems of Particle Filters 10:15 AM
Petar Djuric, Mónica Bugallo, Stony Brook University
- MA4b-2 Exact Particle Flow for Nonlinear Filters 10:40 AM
Fred Daum, Jim Huang, Raytheon Company
- MA4b-3 Non-linear Adaptive Filtering with Kernel Functions: An Overview 11:05 AM
Weifeng Liu, University of Florida; Cédric Richard, Université de Nice Sophia-Antipolis; José Principe, University of Florida; Simon Haykin, McMaster University
- MA4b-4 On Attributes of the CKF and its Relationship to the UKF 11:30 AM
Simon Haykin, McMaster University

Session MA5b Biomotivated Recognition and Detection

Chair: *Visar Berisha, Raytheon Missile Systems*

- MA5b-1 Evaluating Brain Software Simulations using Common Test Suite 10:15 AM
Richard Hammet, David V. Anderson, Georgia Institute of Technology
- MA5b-2 Making Decisions About Unseen Data: Semi-Supervised Learning at Different Levels of Specificity 10:40 AM
Visar Berisha, Raytheon Company; Ailar Javadi, Alexander Gray, David V. Anderson, Richard Hammet, Georgia Institute of Technology
- MA5b-3 High Resolution Radar Analysis of Human Gait 11:05 AM
Gerald Benitz, Shourov Chatterji, Daniel Gilbert, Paul Monticciolo, Rowland O'Flaherty, Mikael Yamaguchi, Aimee D'Onofrio, MIT Lincoln Laboratory
- MA5b-4 Using Machines to Improve Human Saliency Detection 11:30 AM
Nikhil Rao, Tyler Karrels, Robert Nowak, Tim Rogers, University of Wisconsin-Madison

Session MA6b Computer Arithmetic I

Chair: *M. Schulte, AMD Research and Advanced Development Labs*

- MA6b-1 Arithmetic Techniques Employed in the Next-Generation AMD FPU Core 10:15 AM
Debjit Das Sarma, Advanced Micro Devices; David Oliver, Veloce Technologies; Alexandru Fit-Florea, NVidia; Scott Hilker, Kevin Hurd, Kelvin Goveas, Jay Fleischman, Mark Gibson, Michael Estlick, Advanced Micro Devices
- MA6b-2 Design and FPGA Implementation of Radix-10 Combined Division/Square Root Algorithm with Limited Precision Primitives 10:40 AM
Miloš D. Ercegovic, University of California, Los Angeles; Robert McIlhenny, California State University Northridge
- MA6b-3 Assessment of Butterfly Network VLSI Shifter Circuit 11:05 AM
Neil Burgess, University of Bristol
- MA6b-4 An Optimized Recursive High Radix Divide Unit with Multipartite Memory Lookup 11:30 AM
James Stine, Ameet Phadke, Surpriya Tike, Justin Remington, Oklahoma State University

Session MA7b Biological Models of Speech Perception and Their Applications in Automatic Speech Processing

Chair: *Nima Mesgarani, Johns Hopkins University*

- MA7b-1 Frequency Domain Perceptual Linear Prediction (FDPLP) 10:15 AM
Hynek Hermansky, Sriram Ganapathy, Samuel Thomas, The Johns Hopkins University
- MA7b-2 Perceptual Artifacts in Speech Noise Suppression 10:40 AM
Devangi N. Parikh, David V. Anderson, Georgia Institute of Technology
- MA7b-3 Point Process Models of Spectro-Temporal Modulation Events for Speech Recognition 11:05 AM
Aren Jansen, Nima Mesgarani, Johns Hopkins University; Partha Niyogi, University of Chicago
- MA7b-4 Noise Robust Encoding of Speech in the Primary Auditory Cortex 11:30 AM
Nima Mesgarani, Johns Hopkins University

Session MA8b1 Communication Systems I

Chair: *Joerg Kliewer, New Mexico State University*

10:15 AM - 12:00 PM

- MA8b1-1 Dual Domain Echo Cancellers for Multirate Discrete Multitone Systems
Neda Ehtiati, Benoit Champagne, McGill University

- MA8b1-2 Finite Random Matrices for Blind Spectrum Sensing
Giuseppe Abreu, University of Oulu; Wensheng Zhang, Yukitoshi Sanada, Keio University
- MA8b1-3 MAP Detection with Soft Information in an Estimate and Forward Relay Network
Corina I. Serediu, Rice University; Jorma Lilleberg, University of Oulu / Nokia; Behnaam Aazhang, Rice University
- MA8b1-4 Assisted Radio Field Prediction with Application to Cognitive Radio
Michele Scagliola, Carlos Mosquera, Veronica Santalla del Rio, University of Vigo
- MA8b1-5 Robust AF Relay Transmission with Multiple Source-Destination Pairs under Channel Uncertainty
Yupeng Liu, Athina Petropulu, Drexel University
- MA8b1-6 A Mutual Information based Iteration Stop Rule for Turbo Decoding
Jinhong Wu, Atheros Communications, Inc.; Branimir Vojcic, Jia Sheng, George Washington University
- MA8b1-7 Cooperation Diversity for OFDM with Iterative Reception and Independent CFO per Node
Thomas Keteoglou, California State University
- MA8b1-8 Joint Transmitter Adaptation and Power Control in Multi-User Wireless Systems with Target SIR Requirements
Dimitrie C. Popescu, Shiny Abraham, Old Dominion University
- MA8b1-9 Complexity Reduction for Vehicular Channel Estimation Using the Filter-Divergence Measure
Laura Bernadó, Thomas Zemen, FTW Forschungszentrum Telekommunikation Wien; Alexander Paier, Vienna University of Technology; Johan Karedal, Lund University
- MA8b1-10 Feasibility and Limitations in Relaying Broadcast Signals
Eun-Hee Shin, Dongwoo Kim, Hanyang University
- MA8b1-11 An Improved Synchronization Scheme for OFDMA Systems with Initial Ranging Transmissions
Sungeun Lee, Xiaoli Ma, Georgia Institute of Technology
- MA8b1-12 Syndrome Based Adaptive Complexity Channel Decoding and Turbo Equalization for ATSC DTV
Klaus Hueske, Jan Geldmacher, Jürgen Götze, TU Dortmund University
- MA8b1-13 Joint Signal Detection and Classification of Mobile WiMAX and LTE OFDM Signals for Cognitive Radio
Alaa Al-Habashna, Octavia A. Dobre, Ramachandran Venkatesan, Memorial University of Newfoundland; Dimitrie C. Popescu, Old Dominion University
- MA8b1-14 Cooperative Game-Theoretic Solutions to Spectrum Sharing in Cognitive Radios
Jayaprakash Rajasekharan, Jan Eriksson, Visa Koivunen, Aalto University
- MA8b1-15 Calibration of Random Phase Rotation for Multi-Band OFDM UWB Signals
Huilin Xu, Liuqing Yang, University of Florida

- MA8b1-16 Wideband Spectrum Sensing for Cognitive Radios in Unknown Noise via Power Spectrum Analysis
Jitendra Tugnait, Auburn University
- MA8b1-17 Fair Resource Allocation for Hybrid FSO/RF Networks
Yi Tang, Maite Brandt-Pearce, University of Virginia
- MA8b1-18 MCM OFDM Using Sparse Signals
Victor DeBrunner, Florida State University; Jim Schroeder, Harris Corporation

Session MA8b2 Selected Topics in Image Processing

Chair: *Christopher Rozell, Georgia Institute of Technology*

10:15 AM - 12:00 PM

- MA8b2-1 Sparse Coding for Spectral Signatures in Hyperspectral Images
Adam Charles, Georgia Institute of Technology; Bruno Olshausen, University of California, Berkeley; Christopher Rozell, Georgia Institute of Technology
- MA8b2-2 Distributed Compressed Sensing of Hyperspectral Images via Blind Source Separation
Mohammad Golbabaee, Simon Arberet, Pierre Vanderghyest, Ecole Polytechnique Fédérale de Lausanne
- MA8b2-3 Automatic Feature Extraction in Laser Rangefinder Data Using Geometric Invariance
Jean-Charles Noyer, Régis Lherbier, Univ. Lille Nord-de-France
- MA8b2-4 A Novel Facial Expression Recognition Method Using Fast BEMD Based Edge Detection
James Zhang, Zijing Qin, Peter Tay, Robert Adams, Western Carolina University
- MA8b2-5 Plenoptic Rendering on GPUs
Todor Georgiev, Andrew Lumsdaine, Georgi Chunev, Adobe
- MA8b2-6 Complexity and Quality Evaluation of Structure Extrapolation Methods Within a Fully Automatic Inpainting Framework
Patrick Ndjiki-Nya, Dimitar Doshkov, Martin Koeppel, Thomas Wiegand, Fraunhofer Institute for Telecommunications - Heinrich-Hertz-Institut
- MA8b2-7 Multi-modal Image Fusion using Window-based ICA and Fractal Dimension
Lu Han, North Carolina State University; Shubha Kadambe, Rockwell Collins Company; Hamid Krim, North Carolina State University
- MA8b2-8 A Regularized Optimization Approach for AM-FM Reconstructions
Paul Rodriguez, Pontificia Universidad Catolica del Peru; Victor Murray, Marios S. Pattichis, University of New Mexico
- MA8b2-9 Block Based Completion for Video Stabilization
Stephen Mangiat, University of California, Santa Barbara; Yi-Jen Chiu, Intel Corporation

- MA8b2-10 ρ -Domain Rate Control for JPEG XR
Duncan Chan, Jie Liang, Simon Fraser University; Chengjie Tu, Microsoft Corp.

Session MA8b3 Applications of Compressive Sensing

Chair: *Sergiy Vorobyov, University of Alberta Edmonton, Canada*

10:15 AM - 12:00 PM

- MA8b3-1 Empirical Risk Minimization-Based Analysis of Segmented Compressed Sampling
Omid Taheri, Sergiy Vorobyov, University of Alberta
- MA8b3-2 Localization in Wireless Networks via Spatial Sparsity
Sofia Nikitaki, Panagiotis Tsakalides, University of Crete & FORTH-ICS
- MA8b3-3 Joint Typical Analysis for Compressive Sensing Based Multi Sensor Systems
Sangjun Park, Junho Lee, Heungno Lee, Gwangju Institute of Science and Technology (GIST)
- MA8b3-4 Compressive Imaging using Approximate Message Passing and a Markov-Tree Prior
Subhojit Som, Lee C Potter, Philip Schniter, Ohio State University
- MA8b3-5 Computable Quantification of the Stability of Sparse Signal Reconstruction
Gongguo Tang, Arye Nehorai, Washington University in St. Louis
- MA8b3-6 Signal Recovery from Low Frequency Components
Yonina C. Eldar, Technion - Israel Institute of Technology; Volker Pohl, Technical University Berlin

Session MP1a Interference Channels

Chair: *Eduard Jorswieck, Technische Universität Dresden*

- MP1a-1 Learning to Precode in Outage Minimization Games over MIMO Interference Channels 1:30 PM
Elena Veronica Belmega, Hamidou Tembine, Samson Lasaulce, Laboratoire des signaux et systèmes
- MP1a-2 Achievable Rates and Upper Bounds for the Interference Relay Channel 1:55 PM
Anas Chaaban, Aydin Sezgin, Ulm University
- MP1a-3 Bargaining and Beamforming in Interference Channels 2:20 PM
Rami Mochaourab, Eduard A. Jorswieck, Dresden University of Technology; Zuleita Ka Ming Ho, David Gesbert, Eurecom
- MP1a-4 Optimal Distributed Beamforming for MISO Interference Channels 2:45 PM
Jiaming Qiu, Texas A&M University; Rui Zhang, National University of Singapore; Zhi-Quan Luo, University of Minnesota; Shuguang Cui, Texas A&M University

Session MP1b Trends for Future Wireless Systems

Chair: *Tom Marzetta, Bell Labs*

- MP1b-1 Fading Models and Metrics for Contemporary Wireless Systems 3:30 PM
Nihar Jindal, University of Minnesota; Angel Lozano, UPF
- MP1b-2 Doubling Throughput in Cellular Networks with Higher-order Sectorization 3:55 PM
Howard Huang, Reinaldo Valenzuela, Cuong Tran, Susan Walker, Dragan Samardzija, Bell Laboratories, Alcatel-Lucent
- MP1b-3 Performance of TDD-based MU-MIMO Systems: Multiuser Diversity Interference Mitigation and CSI Costs 4:20 PM
Haralabos Papadopoulos, DOCOMO USA Labs; Giuseppe Caire, University of Southern California; Sean Ramprasad, DOCOMO USA Labs
- MP1b-4 Making MIMO Really Work: The 400-Antenna Base Station 4:45 PM
Thomas Marzetta, Alexei Ashikhmin, Bell Laboratories, Alcatel-Lucent

Session MP2a MIMO Secrecy

Chair: *A. Lee Swindlehurst, University of California, Irvine*

- MP2a-1 Secrecy in Gaussian MIMO Bidirectional Broadcast Wiretap Channels: Transmit Strategies 1:30 PM
Sara Al-Sayed, Aydin Sezgin, Ulm University
- MP2a-2 Maximization of Worst-Case Secrecy Rates in MIMO Wiretap Channels 1:55 PM
Anne Wolf, Eduard A. Jorswieck, Dresden University of Technology
- MP2a-3 Ergodic Secrecy Rate for Gaussian MISO Wiretap Channels with Rician Fading 2:20 PM
Jiangyuan Li, Shuangyu Luo, Athina Petropulu, Drexel University
- MP2a-4 Robust Beamforming for MISO Wiretap Channel by Optimizing the Worst-case Secrecy Capacity 2:45 PM
Wei Shi, James Ritcey, University of Washington

Session MP2b MIMO Relays

Chair: *Ozgur Oyman, Intel*

- MP2b-1 Beamforming for Network-coded MIMO Two-way Relaying 3:30 PM
Taemin Kim, Bernd Bandemer, Arogyaswami Paulraj, Stanford University
- MP2b-2 Residual Self-Interference in Full-duplex MIMO Relays After Null-Space Projection and Cancellation 3:55 PM
Taneli Riihonen, Stefan Werner, Risto Wichman, Aalto University

- MP2b-3 Self-Interference Suppression in Full-Duplex MIMO Relays 4:20 PM
Panagiota Lioliou, Mats Viberg, Chalmers University of Technology; Mikael Coldrey, Fredrik Athley, Ericsson AB
- MP2b-4 Optimal Channel Estimation and Training Design for MIMO Relays 4:45 PM
Ting Kong, Yingbo Hua, University of California, Riverside

Session MP3a New Trends in Information Theory and Networks

Co-Chairs: *Sanjay Shakkottai, University of Texas at Austin and Jeff Andrews, University of Texas at Austin*

- MP3a-1 On Information Theoretic Games for Interference Networks 1:30 PM
Suvarup Saha, Randall Berry, Northwestern University
- MP3a-2 Correlation of Link Outages in Low-mobility Wireless Networks 1:55 PM
Radha Krishna Ganti, Jeffrey Andrews, University of Texas at Austin
- MP3a-3 On Information Utility and Generalization of Data Processing Inequality 2:20 PM
Tara Javidi, University of California, San Diego
- MP3a-4 On the Significance of Linear Codes in Networks 2:45 PM
Jiening Zhan, Michael Gastpar, University of California, Berkeley

Session MP3b Learning and Optimization in Dynamic Networks

Co-Chairs: *Qing Zhao, University of California, Davis and Keqin Liu, University of California, Davis*

- MP3b-1 Distributed Learning Under Imperfect Sensing in Cognitive Radio Networks 3:30 PM
Keqin Liu, Qing Zhao, University of California, Davis; Bhaskar Krishnamachari, University of Southern California
- MP3b-2 The Asymptotics of Duplication-Deletion Random Graphs 3:55 PM
Maziyar Hamdi, Vikram Krishnamurthy, University of British Columbia
- MP3b-3 No-Regret Routing for Ad-hoc Wireless Networks 4:20 PM
Abhijeet Bhorkar, Tara Javidi, University of California, San Diego
- MP3b-4 Dynamic Optimization and Learning for Renewal Systems 4:45 PM
Michael Neely, University of Southern California

Session MP4a Biomedical Image Analysis

Chair: *Ronald Summers, National Institutes of Health*

- MP4a-1 Haustral Fold Detection for CT Colonography 1:30 PM
Images Using Gabor Filter
Zhuoshi Wei, Jianhua Yao, Shijun Wang, Ronald Summers, National Institutes of Health
- MP4a-2 Human Activity Recognition Via Motion and 1:55 PM
Vision Data Fusion
Chun Zhu, Qi Cheng, Weihua Sheng, Oklahoma State University
- MP4a-3 Segmentation and Pseudo-coloring of 2:20 PM
High-Speed Bright-Field Microscopy Images of the
Beating Embryonic Heart
Sandeep Bhat, Michael Liebling, University of California, Santa Barbara
- MP4a-4 A Scheme of Bandwidth Allocation for the 2:45 PM
Transmission of Medical Data
Di Lin, Fabrice Labeau, McGill University

Session MP4b Advances in Adaptive Algorithms

Co-Chairs: *Sergios Theodoridis, University of Athens and Isao Yamada, Tokyo Institute of Technology*

- MP4b-1 Adaptive Estimation of Sparse Signals using 3:30 PM
the Method of Multipliers
Daniele Angelosante, Georgios B. Giannakis, University of Minnesota
- MP4b-2 Time- and Coefficient-Selective Diffusion 3:55 PM
Strategies for Distributed Parameter Estimation
Stefan Werner, Aalto University School of Science and Technology; Yih-Fang Huang, University of Notre Dame
- MP4b-3 Tracking Behavior of Mobile Adaptive 4:20 PM
Networks
Sheng-Yuan Tu, Ali H. Sayed, University of California, Los Angeles
- MP4b-4 Low Complexity Projection-based Adaptive 4:45 PM
Algorithm for Sparse System Identification and
Signal Reconstruction
Konstantinos Slavakis, University of Peloponnese; Sergios Theodoridis, University of Athens; Isao Yamada, Tokyo Institute of Technology

Session MP5 Statistical Signal Processing for Complex Systems

Chair: *Monica Bugallo, SUNY Stony Brook*

- MP5-1 Likelihood Consensus: Principles and 1:30 PM
Application to Distributed Particle Filtering
Ondrej Hlinka, Ondrej Sluciak, Franz Hlawatsch, Institute of Communications and Radio-Frequency Engineering, Vienna University of Technology; Petar Djuric, Stony Brook University; Markus Rupp, Institute of Communications and Radio-Frequency Engineering, Vienna University of Technology

- MP5-2 Particle Filtered Modified Compressive 1:55 PM
Sensing (PF-mod-CS) for Tracking Signal
Sequences
Samarjit Das, Namrata Vaswani, Iowa State University
- MP5-3 Compressed Sensing using Generalized 2:20 PM
Polygon Samplers
Kanke Gao, Stella Batalama, Dimitris Pados, State University of New York at Buffalo; Bruce Suter, Air Force Research Laboratory
- MP5-4 Particle Filtering with Mode Tracking: 2:45 PM
Potential for Application to Numerical Weather
Prediction
Sarah Dance, Joanne Pocock, Amos Lawless, University of Reading
- BREAK 3:10 PM
- MP5-5 Compressible Priors for Natural Image 3:30 PM
Statistics
Volkan Cevher, EPFL STI IEL LIONS
- MP5-6 Unsupervised Bayesian Analysis for Gene 3:55 PM
Expression Analysis
Cécile Bazot, Nicolas Dobigeon, Jean-Yves Tourneret, University of Toulouse; Alfred O. Hero, University of Michigan
- MP5-7 Multiple Sensor Sequential Tracking of 4:20 PM
Neural Activity: Algorithm and FPGA
Implementation
Lifeng Miao, Jun Zhang, Chaitali Chakrabarti, Antonia Papandreou-Suppappola, Arizona State University
- MP5-8 Adaptive Parameter Estimation of 4:45 PM
Cardiovascular Signals Using Sequential Bayesian
Techniques
Shwetha Edla, Jun Jason Zhang, John Spanias, Antonia Papandreou-Suppappola, Chaitali Chakrabarti, Arizona State University

Session MP6 Communication Processors and Accelerators

Chair: *J. Cavallaro, Rice University*

- MP6-1 Reconfigurable MIMO Transceiver Design 1:30 PM
using the Tunable Channel Decomposition
Jing Wang, Gerald Sobelman, University of Minnesota
- MP6-2 A WiMAX/LTE Compliant FPGA 1:55 PM
Implementation of a High-Throughput Low-
Complexity 4x4 64-QAM Soft MIMO Receiver
Vadim Smolyakov, Dimpesh Patel, University of Toronto; Mahdi Shabany, University of Toronto / Sharif University; Glenn Gulak, University of Toronto
- MP6-3 An Ultra Low Power SIMD Processor for 2:20 PM
Wireless Communications
Mark Woh, Sangwon Seo, Scott Mahlke, Trevor Mudge, University of Michigan; Chaitali Chakrabarti, Arizona State University

MP6-4	Combined Channel and Hardware Noise Resilient Viterbi Decoder <i>Amr Hussien, Muhammed Khairy, Amin Khajeh, Ahmed Eltawil, Fadi Kurdahi, University of California, Irvine</i>	2:45 PM
	BREAK	3:10 PM
MP6-5	Implementation of Greedy Algorithms for LTE Sparse Channel Estimation <i>Patrick Maechler, Pierre Greisen, Benjamin Sporrer, Sebastian Steiner, Norbert Felber, Andreas Burg, ETH Zurich</i>	3:30 PM
MP6-6	A Low Energy High Speed Reed-Solomon Decoder Using Decomposed Inversionless Berlekamp-Massey Algorithm <i>Hazem A. Ahmed, Hamed Salah, Tallal ElShabrawy, German University in Cairo; Hossam A. H. Fahmy, Cairo university</i>	3:55 PM
MP6-7	Design of Large Polyphase Filters in the Quadratic Residue Number System <i>Gian Carlo Cardarilli, Università degli Studi di Roma "Tor Vergata"; Alberto Nannarelli, Technical University of Denmark; Yann Oster, Thales Alenia Space; Massimo Petricca, Marco Re, Università degli Studi di Roma "Tor Vergata"</i>	4:20 PM
MP6-8	FPGA Implementation Analysis of Polyphase Channelizer Performing Sample Rate Change Required for both Matched Filtering and Channel Frequency Spacing <i>Mehmod Awan, Aalborg University; fred harris, San Diego State University; Chris Dick, Xilinx, Inc.; Peter Koch, Aalborg University</i>	4:45 PM

Session MP7a Video Compression

Chair: *Cheolhong Ang, Qualcomm, Inc.*

MP7a-1	Spectral Entropy-Based Quantization Matrices for H.264/AVC Video Coding <i>Malavika Bhaskaranand, Jerry Gibson, University of California, Santa Barbara</i>	1:30 PM
MP7a-2	Motion Blur Adaptive Rate Control <i>Cheolhong An, Qualcomm Inc.</i>	1:55 PM
MP7a-3	Compressive Sensing based Multiview Video coding <i>Parmida Beigi, Xiaoyu Xiu, Jie Liang, Simon Fraser University</i>	2:20 PM
MP7a-4	Frame Corruption Estimation from Route Messages for Video Coding over Mobile Ad Hoc Networks <i>Yiting Liao, Jerry Gibson, University of California, Santa Barbara</i>	2:45 PM

Session MP7b Advances in Keyword Spotting

Chair: *Mark A. Clements, Georgia Institute of Technology*

MP7b-1	Speech/Audio Indexing and Retrieval: Improving Precision <i>Marsal Gavalda, Nexidia Inc; Mark Clements, Georgia Institute of Technology; Robert Morris, Maria Koulikov, Peter Cardillo, Jon Arrowood, Nexidia Inc</i>	3:30 PM
MP7b-2	Phonological Feature Based Analysis for Keyword Recognition <i>Abhijeet Sangwan, John H.L. Hansen, CRSS: Center for Robust Speech Systems</i>	3:55 PM
MP7b-3	Word-Subword Based Keyword Spotting with Implications in OOV Detection <i>Jan Cernocky, Igor Szoke, Mirko Hannemann, Stefan Kombrink, Brno University of Technology</i>	4:20 PM
MP7b-4	Enhanced Open Vocabulary Spoken Term Detection <i>Bhuvana Ramabhadran, IBM T. J. Watson Research Center</i>	4:45 PM

Session MP8a1 Communication Systems II

Chair: *Martin Haardt, Technical University Ilmenau*

1:30 PM - 3:10 PM

MP8a1-1	Uplink Interference Scenarios in Two-Tier Networks <i>Zhenning Shi, Alcatel Lucent - Shanghai Bell; Mark Reed, Ming Zhao, National ICT Australia (NICTA); He Wang, Australian National University</i>
MP8a1-2	Rethinking Capacity Per Unit Cost <i>Matthew Nogleby, Behnaam Aazhang, Rice University</i>
MP8a1-3	Efficiency of Rate-maximization Game Under Bounded Channel Uncertainty <i>Amod J.G. Anandkumar, Advanced Signal Processing Group; Animashree Anandkumar, Laboratory for Information and Decision Systems; Sangarapillai Lambotharan, Jonathon Chambers, Advanced Signal Processing Group</i>
MP8a1-4	A Semidefinite Programming Approach to Cooperative Localization in Wireless Sensor Networks <i>Ning Wang, Liuqing Yang, University of Florida</i>
MP8a1-5	A Self-Organizing Solution for Interference Avoidance in TDD Underlay Femtocells <i>Francesco Pantisano, Centre for Wireless Communication (CWC) + Dipartimento di Elettronica Informatica e Sistemistica (DEIS); Kaveh Ghaboosi, Mehdi Bennis, Centre for Wireless Communication (CWC); Roberto Verdone, Dipartimento di Elettronica Informatica e Sistemistica (DEIS)</i>
MP8a1-6	GLRT Based Cooperative Spectrum Sensing with Location Information <i>Ning Han, Hongbin Li, Jun Fang, Stevens Institute of Technology</i>

- MP8a1-7 Iterative Decoding on Divided Trellis for Turbo Codes
Jinhong Wu, Atheros Communications, Inc.; Branimir Vojcic, Jia Sheng, George Washington University
- MP8a1-8 Detection of CPM Based on Second-Order Cyclostationarity
Amy Malady, A. A. (Louis) Beex, Virginia Tech
- MP8a1-9 Determination of Cyclic Delay for CDD Utilizing RMS Delay Spread in OFDMA Multiuser Scheduling Systems
Seong-Ho Hur, University of California, San Diego; Min-Joong Rim, Dong-Kook University; Bhaskar D. Rao, James R. Zeidler, University of California, San Diego
- MP8a1-10 Effective SINR Distribution in MIMO OFDM Systems
Alexandra Oborina, Visa Koivunen, Helsinki University of Technology; Tero Henttonen, Nokia Oyj
- MP8a1-11 Pilot Design for OFDM-Based Non-Regenerative Relay Networks in the Presence of Phase Noise
Payam Rabiei, Won Namgoong, Naofal Al-Dhahir, University of Texas at Dallas
- MP8a1-12 Sum-Rate Maximization by Bandwidth Re-allocation for Two Users in Partial Frequency Reuse Cellular Networks
Bujar Krasniqi, Technische Universität Wien; Martin Wolkerstorfer, FTW Forschungszentrum Telekommunikation Wien; Christian Mehlhauer, Christoph Mecklenbrauker, Technische Universität Wien
- MP8a1-13 Performance of UWB MIMO Relay Systems in Real UWB Channels
Kiattisak Maichalernnukul, Trung Kien Nguyen, Feng Zheng, Thomas Kaiser, University of Hannover

Session MP8a2 Speech Enhancement

Chair: *David Anderson, Georgia Institute of Technology*

1:30 PM - 3:10 PM

- MP8a2-1 Combined Reduction of Time Varying Harmonic and Stationary Noise Using Frequency Warping
Thomas Esch, Matthias Rüngeler, Florian Heese, Peter Vary, RWTH Aachen University
- MP8a2-2 Comparison of Various Adaptive Kalman Filtering Algorithms Applied to Single Microphone Blind Audio Source Separation
Siouar Bensaid, Dirk Slock, Eurecom
- MP8a2-3 A MAP Criterion for Detecting the Number of Speakers at Frame Level in Model-based Single-Channel Speech Separation
Pejman Mowlaei, Mads Græsbøll Christensen, Zheng-Hua Tan, Søren Holdt Jensen, Aalborg University
- MP8a2-4 Toward Overcoming Fundamental Limitation in Frequency-Domain Blind Source Separation for Reverberant Speech Mixtures
Lae-Hoon Kim, Mark Hasegawa-Johnson, University of Illinois at Urbana-Champaign
- MP8a2-5 Auditory Motivated Analysis Based Speech enhancement
Novlene Zoghlami, Zied Lachiri, ENIT

- MP8a2-6 Modified Fermat Transforms for Reliable and Efficient De-noising of Speech Signals
Chandra Radhakrishnan, Kenneth Jenkins, Pennsylvania State University; Carnell Hunter, Virginia Commonwealth University; Robert Nickel, Bucknell University

Session MP8a3 Selected Topics in Speech and Audio

Chair: *Jerry Gibson, University of California, Santa Barbara*

1:30 PM - 3:10 PM

- MP8a3-1 Improved Design Method for Nearly Linear-Phase Recursive Digital Filters Using Unconstrained Least-pth Minimax Optimization
Sunil B. Nagaraj, Rajeev Nongpiur, Andreas Antoniou, University of Victoria
- MP8a3-2 Frequency Dependent GTD Coders
Ching-Chih Weng, P. P. Vaidyanathan, California Institute of Technology
- MP8a3-3 Time-Scale Modification of Audio Signals Using Multi-Relative Onset Time Estimations in Sinusoidal Transform Coding
Jonathan Kim, Mark Clements, Georgia Institute of Technology
- MP8a3-4 Tandeming Analysis of Perceptual Pre-weighting and Post-weighting Multimode Tree Coder
Ying-Yi Li, Pravin Ramadas, Jerry Gibson, University of California, Santa Barbara
- MP8a3-5 Improved Approach for Calculating Model Parameters in Speaker Recognition Using Gaussian Mixture Models
Prashant Metkar, Aaron Cohen, Keshab Parhi, University of Minnesota-Twin Cities
- MP8a3-6 An Efficient Constant-Q Spectrum Analyzer Architecture Using Polyphase Filter Bank
Xiaofei Chen, San Diego State University; Elettra Venosa, Seconda Università degli Studi di Napoli; fred harris, San Diego State University
- MP8a3-7 Online Meeting Recognizer with Multichannel Speaker Diarization
Shoko Araki, Takaaki Hori, Masakiyo Fujimoto, Shinji Watanabe, Takuya Yoshioka, Tomihiro Nakatani, NTT Communication Science Laboratories
- MP8a3-8 Low Complexity 3D Source Localization Using Pseudointensity Vectors
Daniel P. Jarrett, Emanuel A.P. Habets, Patrick A. Naylor, Imperial College London
- MP8a3-9 Cyclic Matching Pursuits with Multiscale Time-Frequency Dictionaries
Bob Sturm, Mads Græsbøll Christensen, Aalborg University

Session MP8a4 Adaptive Signal Processing in Communications

Chair: *Martin Haardt, Technical University Ilmenau*

1:30 PM - 3:10 PM

- MP8a4-1 A New Algorithm for Sidelobe Suppression and Performance Comparison in DFT-OFDM Cognitive Radios
Mohamed Marey, Octavia A. Dobre, Memorial university
- MP8a4-2 An Iterative Widely Linear Interference Suppression Algorithm based on Auxiliary Vector Filtering
Lei Wang, University of York; Nuan Song, Ilmenau University of Technology; Rodrigo C. de Lamare, University of York; Martin Haardt, Ilmenau University of Technology
- MP8a4-3 Non-negative Distributed Regression for Data Inference in Wireless Sensor Networks
Jie Chen, Université de Technologie de Troyes; Cédric Richard, Université de Nice Sophia-Antipolis; Paul Honeine, Université de Technologie de Troyes; Jose Carlos M. Bermudez, Federal University of Santa Catarina
- MP8a4-4 Blind Adaptive Equalizer Based on PDF Matching for Rayleigh Time-Varying Channels
Adel Daas, Stephan Weiss, University of Strathclyde
- MP8a4-5 A Systematic Approach to Incorporate Deterministic Prior Knowledge in Broadband Adaptive MIMO Systems
Herbert Buchner, Berlin University of Technology

Session MP8a5 Array-based Estimation

Chair: *John Shynk, University of California, Santa Barbara*

1:30 PM - 3:10 PM

- MP8a5-1 Emitter Position and Velocity Estimation Given Time and Frequency Differences of Arrival
Alon Amar, Geert Leus, Delft University of Technology; Benjamin Friedlander, University of California, Santa Cruz
- MP8a5-2 Exploring Sensitivity of Joint Diagonalization in Convolutional Blind Source Separation
Savaskan Bulek, Nurgun Erdol, Florida Atlantic University
- MP8a5-3 Blind Phase-Shift-Based DOA Estimation
John Shynk, Sheng-Luen Wei, University of California, Santa Barbara
- MP8a5-4 A Joint AOA, AOD and Delays Estimation of Multipath Signals based on Beamforming Techniques
Ismehene Chahbi, Badii Jouaber, Institut TELECOM, Telecom SudParis

MP8a5-5 Using Moment Finite Rate of Innovation for LIDAR Waveform Complexity Estimation
Juan Castorena, Charles Creusere, David Voelz, New Mexico State University

MP8a5-6 Hybrid Tensor Decomposition for Sound Source Separation
Na Li, Carmeliza Navasca, Clarkson University

MP8a5-7 Multi-Objective Optimized OFDM Radar Waveform for Target Detection in Multipath Scenarios
Satyabrata Sen, Arye Nehorai, Washington University in St. Louis

Session TA1a Network Error Correction and Physical Layer Security

Chair: *Joerg Klierer, New Mexico State University*

- TA1a-1 Interactive Protocols for Secure Network Coding 8:15 AM
Mahdi Jafari, Christina Fragouli, Ecole Polytechnique Fédérale de Lausanne; Suhas Diggavi, University of California, Los Angeles
- TA1a-2 Network Coding on Planar Networks under Node-Based Byzantine Attack 8:40 AM
Oliver Kosut, Lang Tong, Cornell University; David Tse, University of California, Berkeley
- TA1a-3 Capacity Reservation Algorithms for Mitigating Byzantine Failures in Communication Networks 9:05 AM
Khushboo Kanjani, Mohammad Asad Chaudhry, Alex Sprintson, Texas A&M University
- TA1a-4 Network RS codes: Efficient Byzantine Adversary Localization 9:30 AM
Hongyi Yao, California Institute of Technology; Sidharth Jaggi, Minghua Chen, Chinese University of Hong Kong

Session TA1b Coding

Chair: *Lang Tong, Cornell University*

- TA1b-1 Complex Number RS Coded OFDM with Systematic Noise in the Guard Interval 10:15 AM
Mario Huemer, Christian Hofbauer, Klagenfurt University; Johannes B. Huber, University of Erlangen-Nuremberg
- TA1b-2 Extrinsic Compensation for Cycles in Message Passing Decoders 10:40 AM
Todd Moon, Jacob Gunther, Utah State University
- TA1b-3 Convergence-Optimal Quantizer Design of Distributed Contraction-based Iterative Algorithms with Quantized Message Passing 11:05 AM
Ying Cui, Vincent K. N. Lau, Hong Kong University of Science and Technology
- TA1b-4 On Secure Communication over a Class of Degraded Relay Networks 11:30 AM
Amir Salimi, Joerg Klierer, New Mexico State University

Session TA2a Signal Processing for Communications Receivers

Chair: *Mats Viberg, Chalmers University of Technology*

- TA2a-1 Decision Feedback Equalization With Sparsity Driven Thresholding 8:15 AM
Jovana Ilic, Thomas Strohmer, University of California, Davis; Raymond Guan, Intel Corporation
- TA2a-2 The Effect of Unreliable LLR Storage on the Performance of MIMO-BICM 8:40 AM
Clemens Novak, Vienna University of Technology; Christoph Studer, Andreas Burg, ETH Zurich; Gerald Matz, Vienna University of Technology
- TA2a-3 On Performance Prediction of an Iterative Multi-Antenna Receiver 9:05 AM
Jarkko Huusko, Juha Karjalainen, Markku Juntti, University of Oulu
- TA2a-4 Doppler Estimation and Correction for Shallow Underwater Acoustic Communications 9:30 AM
Kenneth A. Perrine, Karl F. Nieman, Terry L. Henderson, Keith H. Lent, Terry J. Brudner, Brian L. Evans, University of Texas at Austin

Session TA2b Communications Under Doppler Spread

Chair: *Geert Leus, Delft University of Technology*

- TA2b-1 Heavy-tailed Doppler Spectra in Underwater Acoustic Communication Channels 10:15 AM
Paul van Walree, Roald Otnes, Trond Jensenrud, Norwegian Defence Research Establishment
- TA2b-2 Channel Equalization and Estimation of Multi-Sale Multi-Lag Wireless Channels 10:40 AM
Geert Leus, Delft University of Technology; Urbashi Mitra, University of Southern California
- TA2b-3 Approximate Message-Passing-Based Decoding for Unknown Sparse Doubly Selective Channels 11:05 AM
Philip Schniter, Ohio State University
- TA2b-4 OFDM over Doppler-Distorted Channels: Fractional FFT Demodulation 11:30 AM
Srinivas Yerramalli, University of Southern California; Milica Stojanovic, Northeastern University; Urbashi Mitra, University of Southern California

Session TA3a Recursive Reconstruction of Sparse Sequences

Chair: *Namrata Vaswani, Iowa State University*

- TA3a-1 On the Role of the Properties of the Non-zero Entries on Sparse Signal Recovery 8:15 AM
Y. Jin, Bhaskar D. Rao, University of California, San Diego

- TA3a-2 Video Concealment via Matrix Completion at High Missing Rates 8:40 AM
Trac Tran, Johns Hopkins University
- TA3a-3 Exact Reconstruction Conditions and Error Bounds for Regularized Modified Basis Pursuit (Reg-Modified-BP) 9:05 AM
Wei Lu, Namrata Vaswani, Iowa State University
- TA3a-4 Iterative Weighted l_1 Optimization for Compressed Sensing and Coding 9:30 AM
Amin Khajehnejad, Alex Dimakis, Babak Hassibi, California Institute of Technology

Session TA3b Self-Organizing Networks: Architectures, Protocols and Algorithms

Chair: *Vasileios Pappas, IBM*

- TA3b-1 Synchronization of Coupled Oscillators 10:15 AM
A. Kevin Tang, Cornell University
- TA3b-2 A Spatial Computing Approach to Distributed Algorithms 10:40 AM
Jacob Beal, BBN
- TA3b-3 Fast Biologically-inspired Synchronization of Periodic Events 11:05 AM
Prithwish Basu, BBN
- TA3b-4 Joint Admission Control & Interference Avoidance in Self-Organized Femtocells 11:30 AM
Kaveh Ghaboosi, Carlos H. M. Lima, Mehdi Bennis, Centre for Wireless Communications, University of Oulu; Allen B. MacKenzie, Virginia Polytechnic Institute and State University; Matti Latva-aho, Centre for Wireless Communications, University of Oulu

Session TA4a Shape and Time in Biomedical Images

Chair: *David Shattuck, UCLA Geffen School of Medicine*

- TA4a-1 Spatio-Temporal Image Analysis for Longitudinal and Time-Series Image Data 8:15 AM
Guido Gerig, University of Utah
- TA4a-2 Imaging and Shape Analysis of the Moving Human Fetal Brain In-Utero 8:40 AM
Colin Studholme, University of California, San Francisco
- TA4a-3 Extraction of Functional Subnetworks in Autism Using Multimodal MRI 9:05 AM
James Duncan, Michael An, Lawrence Staib, Kevin Pelphrey, Yale University
- TA4a-4 Multivariate Statistical Analysis of Deformation Momenta Relating Anatomical 9:30 AM
Sarang Joshi, University of Utah

Session TA4b Mathematical Methods for Biomedical Signals and Images

Chair: *Murray Loew, George Washington University*

- TA4b-1 Statistically Optimal Modular Partitioning of Directed Graphs 10:15 AM
Yu-Teng Chang, Dimitrios Pantazis, Richard Leahy, University of Southern California
- TA4b-2 A Hierarchical Morphological Match Metric for Neuron Image Data 10:40 AM
Saurav Basu, Barry Condron, Scott T. Acton, University of Virginia
- TA4b-3 Fisher Information for EMCCD Imaging with Application to Single Molecule Microscopy 11:05 AM
Jerry Chao, University of Texas at Dallas; Elizabeth Ward, University of Texas Southwestern Medical Center at Dallas; Raimund Ober, University of Texas at Dallas
- TA4b-4 On Parameter Estimation for Diffusion Processes in Real-time Biosensors 11:30 AM
Manohar Shamaiah, Xiaohu Shen, Haris Vikalo, University of Texas at Austin

Session TA5 Compressive Sensing

Chair: *Ali Pezeshki, Colorado State University*

- TA5-1 Target Estimation Using Compressive Sensing for Distributed MIMO Radar 8:15 AM
Sandeep Gogineni, Arye Nehorai, Washington University in St. Louis
- TA5-2 Sparse Signal Recovery with Dynamic Update of Overcomplete Dictionary 8:40 AM
M. Salman Asif, Justin Romberg, Georgia Institute of Technology
- TA5-3 Robust Layered Sensing: From Sparse Signals to Sparse Residuals 9:05 AM
Vassilis Kekatos, Georgios B. Giannakis, University of Minnesota
- TA5-4 Tracking and Smoothing of Time-Varying Sparse Signals via Approximate Belief Propagation 9:30 AM
Justin Ziniel, Lee C. Potter, Philip Schniter, Ohio State University
- BREAK 9:55 AM
- TA5-5 Performance Analysis of Stochastic Signal Detection with Compressive Measurements 10:15 AM
Thakshila Wimalajeewa, Hao Chen, Pramod K. Varshney, Syracuse University
- TA5-6 Compressed Sensing of Different Size Block-Sparse Signals: Efficient Recovery 10:40 AM
Ali Ziaei, Ali Pezeshki, Saeid Bahmanpour, Mahmood Reza Azimi-Sadjadi, Colorado State University

- TA5-7 Analog Sparse Approximation for Compressed Sensing Recovery 11:05 AM
Christopher Rozell, Georgia Institute of Technology; Pierre Garrigues, IQ Engines, Inc.

- TA5-8 High Resolution Radar via Compressive Illumination 11:30 AM
Emre Ertin, Ohio State University

Session TA6a Reconfigurable Architectures, Algorithms and Applications

Chair: *F. de Dinechin, Ecole Normale Supérieure de Lyon*

- TA6a-1 A Generic and Versatile Architecture for Inference of Evolutionary Trees under Maximum Likelihood 8:15 AM
Nikolaos Alachiotis, Alexandros Stamatakis, Technische Universität München
- TA6a-2 Is there a Tradeoff Between Programmability and Performance 8:40 AM
Walid Najjar, University of California, Riverside; Jason Villarreal, Jacquard Computing Inc.
- TA6a-3 FPGA-Optimised Random Number Generators 9:05 AM
David Thomas, Wayne Luk, Imperial College
- TA6a-4 A 128-tap Complex FIR Filter Processing 20 Gigasamples/s in a Single FPGA 9:30 AM
Florent de Dinechin, Honoré Takeugming, École Normale Supérieure de Lyon; Jean-Marc Tanguy, Bell Laboratories, Alcatel-Lucent

Session TA6b Array Processing and Beamforming

Chair: *Ivars Kirsteins, Naval Undersea Warfare Center*

- TA6b-1 Efficient Frequency Invariant Beamforming using Virtual Arrays 10:15 AM
Piya Pal, P. P. Vaidyanathan, California Institute Of Technology
- TA6b-2 Robust Adaptive Beamforming via Estimating Steering Vector Based on Semidefinite Relaxation 10:40 AM
Arash Khabbazi-basmenj, Sergiy Vorobyov, Aboulnasr Hassani, University of Alberta
- TA6b-3 Adaptive Beamforming using Distributed Antenna Arrays: Joint versus Distributed Processing 11:05 AM
Hongya Ge, New Jersey Institute of Technology; Ivars P. Kirsteins, Naval Undersea Warfare Center; Xiaoli Wang, New Jersey Institute of Technology
- TA6b-4 Remodulation of DVB-T Signals for Use in Bistatic Passive Radar 11:30 AM
Stephen Searle, University of Melbourne; Stephen Howard, James Palmer, Defence Science & Technology Organisation

Session TA7 Image and Video Enhancement

Chair: *Manu Parmar, Qualcomm, Inc.*

- TA7-1 Camera Technology at the Dawn of Digital Renaissance Era 8:15 AM
Sergio Goma, Mickey Aleksic, Qualcomm Inc.; Todor Georgiev, Adobe Systems
- TA7-2 Rethinking the Sampling Topologies for Image Quality Estimation in Computational Imaging System Design 8:40 AM
Kathrin Berkner, Ricoh Innovations, Inc
- TA7-3 Novel YUV 8bpp Subsampling Pattern 9:05 AM
Sergio Goma, Mickey Aleksic, Qualcomm Inc.
- TA7-4 Robust Image Registration for Multi-frame Mobile Applications 9:30 AM
Marius Tico, Kari Pulli, Nokia Research Center
- BREAK 9:55 AM
- TA7-5 Quality-controlled Motion-compensated Interpolation 10:15 AM
Mina Makar, Derek Pang, Yao-Chung Lin, Bernd Girod, Stanford University
- TA7-6 A Constrained Optimization Perspective on Joint Spatial Resolution and Dynamic Range Enhancement 10:40 AM
Vishal Monga, Umamahesh Srinivas, Pennsylvania State University
- TA7-7 Enhancing Video by Combining IR and Visible Light 11:05 AM
Ramin Samadani, Tom Malzbender, Hewlett Packard; Prabath Gunawardane, University of California, Santa Cruz
- TA7-8 Bleed-Through Removal Using Multispectral Image Data 11:30 AM
Trace Griffiths, Gene A. Ware, Todd Moon, Jacob Gunther, Utah State University

Session TA8a1 Cooperative and Cognitive Transmission in Multi-Antenna Networks I

Chair: *Kaibin Huang, Yonsei University*

8:15 AM - 9:55 AM

- TA8a1-1 Randomized Two-Way Relay Cooperation
Saeed Bagheri, University of California, Davis; Francesco Verde, University Federico II; Donatella Darsena, University of Napoli Parthenope; Anna Scaglione, University of California, Davis
- TA8a1-2 Distributed Beamforming for Two-way Relay Networks with Reciprocal Channels
Meng Zeng, Texas A&M University; Rui Zhang, National University of Singapore; Shuguang Cui, Texas A&M University

- TA8a1-3 Balanced Precoding for Decode-and-Forward Based MIMO Relay Communications
Jongyeol Ryu, Wan Choi, Korea Advanced Institute of Science and Technology
- TA8a1-4 Superposition Coding Based Cooperative Communication with Relay Selection
Hobin Kim, Pamela C. Cosman, Laurence B. Milstein, University of California, San Diego
- TA8a1-5 Optimal Power Allocation in Linearly Coded OFDMA Relay Networks
Honghai Yu, Sumei Sun, Institute for Infocomm Research
- TA8a1-6 Distributed Gain Allocation in Non-Regenerative Multiuser Multihop MIMO Networks
Raphael Rolny, Jörg Wagner, Armin Wittneben, Swiss Federal Institute of Technology Zurich
- TA8a1-7 Optimal Spectrum Sharing in MIMO Cognitive Radio Networks via Semidefinite Programming
Ying Jun Zhang, Anthony Man-Cho So, Chinese University of Hong Kong
- TA8a1-8 Two-way Communications for Cooperative Multiple Source Pairs Through a Multi-antenna Relay
Chin Choy Chai, Chau Yuen, Institute for Infocomm Research
- TA8a1-9 Maximum Achievable Diversity of Coded MIMO-OFDM Amplify-and-Forward Relaying Systems
Changick Song, Inkyu Lee, Korea University
- TA8a1-10 Max-Min Weighted SIR in Coordinated Multicell MIMO Downlink System
*Desmond W.H. Cai, Tony Q.S. Quek, Institute for Infocomm Research, A*STAR*
- TA8a1-11 On the Optimization of Two-way AF MIMO Relay Channel with Beamforming
Namjeong Lee, Korea Advanced Institute of Science and Technology; Chan-Byoung Chae, Bell Laboratories, Alcatel-Lucent; Osvaldo Simeone, New Jersey Institute of Technology; Joonhyuk Kang, Korea Advanced Institute of Science and Technology
- TA8a1-12 Is Conflict Always Bad? From the Interference Management Perspective
Chan-Byoung Chae, Kai Yang, Simon Yiu, Doru Calin, Bell Laboratories, Alcatel-Lucent
- TA8a1-13 Feasible Rate Improvement Using Common Message Decoding for Multicell Networks
Hayssam Dahrouj, Wei Yu, University of Toronto
- TA8a1-14 Switched Diversity Strategies for Dual-Hop Relaying Networks
Fakhreddine Gaaloul, Redha Radaydeh, Mohamed-Slim Alouini, Korea Advanced Institute of Science and Technology

TA8a1-15 Stochastic Feedback Control for Multi-Antenna Interference Channel
Rong Ran, Hong Kong University of Science and Technology; Kaibin Huang, Yonsei University; Vincent K. N. Lau, Hong Kong University of Science and Technology; Dongku Kim, Yonsei University

TA8a1-16 Asymptotic Performance of Linear Receivers in Network MIMO
Jakob Hoydis, Mari Kobayashi, Mérouane Debbah, Supélec

Session TA8a2 Cognitive Networking

Chair: *Georgios Giannakis, University of Minnesota*

8:15 AM - 9:55 AM

TA8a2-1 Cooperative Wideband Spectrum Sensing Using Radio Frequency Sensor Networks
Volkan Sonmezer, Turkish Air Force; Murali Tummala, John McEachen, Naval Postgraduate School

TA8a2-2 Spectrum Leasing via Cooperative Opportunistic Routing
Davide Chiarotto, University of Padova; Osvaldo Simeone, New Jersey Institute of Technology; Michele Zorzi, University of Padova

TA8a2-3 Effect of Jamming on Distributed Spectrum Sensing in a Cognitive Radio Network
V Sriram Siddharth (Sid) Nadendla, Hao Chen, Pramod K Varshney, Syracuse University

TA8a2-4 Performance Analysis of Weighted Centroid Algorithm for Primary User Localization in Cognitive Radio Networks
Jun Wang, Paulo Urriza, Yuxing Han, Danijela Čabrić, University of California, Los Angeles

TA8a2-5 Optimizing User Densities for Spectrum Allocation with Applications in Femtocell Networks
Brett Kaufman, Rice University; Jorma Lilleberg, Nokia; Behnaam Aazhang, Rice University

Session TA8a3 Adaptive Signal Processing: Theory and Applications

Chair: *Todd Moon, Utah State University*

8:15 AM - 9:55 AM

TA8a3-1 Spacecraft Adaptive Control Evaluation
Timothy Sands, Naval Postgraduate School (USAF); Jae Jun Kim, Brij Agrawal, Naval Postgraduate School

TA8a3-2 A Novel Block Fast Array RLS Algorithm Applied to Linear Flight Strip-Map SAR Imaging
Roger West, Todd Moon, Jacob Gunther, Utah State University

TA8a3-3 An Adaptive IIR Filter with Constraints on the Output Power Level
Walter Kozacky, Tokunbo Ogunfunmi, Santa Clara University

TA8a3-4 On the Robust and Efficient Computation of the Kalman Gain for Multichannel Adaptive Filtering with Application to Acoustic Echo Cancellation
Karim Helwani, Herbert Buchner, Sascha Spors, Deutsche Telekom Laboratories, Berlin University of Technology

TA8a3-5 An Interval Method for State Estimation in Biological Systems
Maria Angels de Luis Balaguer, Cranos Williams, North Carolina State University

TA8a3-6 A 0.18 μ m CMOS Narrow-band LNA Linearization Using Digital Base-band Post-Distortion
Ifiok Umoh, Talal Al-attar, Tokunbo Ogunfunmi, Santa Clara University

TA8a3-7 Tracking the Time-varying Sparsity of Channel Coefficients in Shallow Water Acoustic Communications
Ananya Sen Gupta, James Preisig, Woods Hole Oceanographic Institution

TA8a3-8 A Normalized Least Mean Fourth Algorithm with Improved Stability
Eweda Eweda, Ajman University of Science & Technology; Azzedine Zerguine, King Fahd University of Petroleum & Minerals

TA8a3-9 An Approach to Stabilizing the Fast Array RLS Adaptive Filter Using Homogeneous Coordinates in Projective Geometry
Todd Moon, Utah State University; Kevin Hencke, University of Maryland; Jacob Gunther, Utah State University

TA8a3-10 Two Product-Space Formulations for Unifying Multiple Metrics in Set-Theoretic Adaptive Filtering
Masahiro Yukawa, Niigata University; Isao Yamada, Tokyo Institute of Technology

TA8a3-11 On the Relation Between Blind System Identification and Subspace Tracking and Associated Generalizations
Herbert Buchner, Karim Helwani, Berlin University of Technology

Session TA8b1 Cooperative and Cognitive Transmission in Multi-Antenna Networks II

Chair: *Kaibin Huang, Yonsei University*

10:15 AM - 12:00 PM

TA8b1-1 Enhanced Limited-Coordination Strategies for Multi-User MIMO Systems
Obadamilola Aluko, Purdue University; Bruno Clerckx, Samsung Advanced Institute of Technology; David J. Love, James V. Krogmeier, Purdue University

TA8b1-2 Relay Channel with Non-causal Interference Information at the Source
Kagan Bakanoglu, Elza Erkip, Polytechnic Institute of NYU

- TA8b1-3 Distortion-Aware Link Adaptation in Cooperative MIMO Relay Networks
Ozgur Oyman, Jeffrey Foerster, Intel Labs
- TA8b1-4 Beamforming on the Interference MISO Interference Channel with Multi-user Decoding Capability
Zuleita Ka Ming Ho, David Gesbert, Eurecom; Eduard A. Jorswieck, Dresden University of Technology; Rami Mochaourab, Eurecom
- TA8b1-5 Multiuser MIMO in Distributed Antenna Systems
Robert W. Heath Jr., University of Texas at Austin; Tao Wu, Young Hoon Kwon, Huawei Technologies, Co. Ltd.
- TA8b1-6 DMT Analysis of Opportunistic Multi-relay Networks with Different Relaying Capabilities
Mohamed Abouelseoud, Aria Nosratinia, University of Texas at Dallas
- TA8b1-7 Throughput of Low-Power Network MIMO Cellular Systems
Shi Jin, Southeast University; Matthew McKay, Hong Kong University of Science and Technology; Kai-Kit Wong, University College London; Xiqi Gao, Southeast University
- TA8b1-8 Coordinated Single-Cell vs Multi-Cell Transmission with Limited-Capacity Backhaul
Nima Seifi, Mats Viberg, Chalmers University of Technology; Robert W. Heath Jr., Jun Zhang, University of Texas at Austin; Mikael Coldrey, Ericsson AB
- TA8b1-9 Decentralized Coordinated Multi-cell Beamforming for Sum Rate Maximization
Harri Pennanen, Antti Tölli, Centre for Wireless Communications, University of Oulu
- TA8b1-10 Statistical Beamforming in Wyner Cellular Network
Rusdha Muharar, Vasanthan Raghavan, Jamie Evans, Stephen Hanly, University of Melbourne
- TA8b1-11 MMSE Transceiver Design for Coordinated Base Station Systems: Distributive Algorithm
Tadilo Endeshaw, Luc Vandendorpe, Batu Chalise, University Catholique de Louvain
- TA8b1-12 CSI Signaling for Decentralized Coordinated Beamforming in TDD Multi-cell MIMO Systems
Petri Komulainen, Antti Tölli, Markku Juntti, University of Oulu
- TA8b1-13 Outage Probability of MISO Broadcast Systems with Noisy Channel Side Information
Alon Shalev Housfater, Teng Joon Lim, University of Toronto
- TA8b1-14 Multi-femtocells MIMO Processing via Amplify and Forward over the Cable (AFc)
Jonathan Gambini, Umberto Spagnolini, Politecnico di Milano
- TA8b1-15 Predictive Limited Feedback for Cooperative Transmission
Ramya Bhagavatula, Robert W. Heath Jr., University of Texas at Austin

- TA8b1-16 Throughput Analysis of MIMO Cooperative Decode-and-Forward ARQ Protocols
Ilmu Byun, KiJun Jeon, Hyangsun You, Kwang Soon Kim, Yonsei University

Session TA8b2 Architectures, Implementations, and Tools I

Chair: *B. Phillips, University of Adelaide*

10:15 AM - 12:00 PM

- TA8b2-1 Rate-Compatible LDPC Code Decoder Using Check-Node Merging
Anton Blad, Oscar Gustafsson, Linköping University; Meng Zheng, Zesong Fei, Beijing Institute of Technology
- TA8b2-2 A Scalable and Programmable Modular Queue Manager Architecture
Qi Zhang, Roger Woods, Alan Marshall, Queen's University Belfast
- TA8b2-3 Hardware Implementation of DBNS Recoding for ECC Processor
Thomas Chabrier, IRISA, University of Rennes; Danuta Pamula, IRISA, University of Rennes, Silesian University of Technology; Arnaud Tisserand, IRISA, CNRS
- TA8b2-4 Temperature Aware Power Optimization for Multicore Floating-Point Units
Wei Liu, Alberto Nannarelli, Technical University of Denmark
- TA8b2-5 Fast, Bit-Accurate Simulation of Truncated-Matrix Multipliers and Squarers
George Walters, Pennsylvania State University Erie; Michael Schulte, AMD Research and Advanced Development Labs
- TA8b2-6 A Redundant Decimal Floating-Point Adder
Karim Yehia, Hossam A. H. Fahmy, Cairo University
- TA8b2-7 Arithmetic Operators Based on the Binary Stored-Carry-or-Borrow Representation
Daniel Torno, Exorand Technology; Behrooz Parhami, University of California, Santa Barbara
- TA8b2-8 Three Engines to Solve Verification Constraints of Decimal Floating-Point Operations
Amr Sayed-Ahmed, Hossam A. H. Fahmy, Cairo University
- TA8b2-9 Algorithm and Architecture for On-Line Decimal Powering Computation
Mahmoud Hassan, Tarek ElDeeb, SilMinds; Hossam A. H. Fahmy, Cairo University
- TA8b2-10 Degradation Precision Arithmetic for Low Power Signal Processing
Massimo Petricca, Gian Carlo Cardarilli, Università degli Studi di Roma "Tor Vergata"; Alberto Nannarelli, Technical University of Denmark; Marco Re, Pietro Albicocco, Università degli Studi di Roma "Tor Vergata"

TA8b2-11 Low-Complexity Parallel Evaluation of Powers Exploiting Bit-Level Redundancy
Muhammad Abbas, Oscar Gustafsson, Anton Blad, Linköping University

TA8b2-12 Memristor-based Arithmetic
K'Andrea Bickerstaff, Researcher; Earl Swartzlander, Jr., University of Texas at Austin

Session TA8b3 Architectures, Implementations, and Tools II

Chair: *B. Phillips, University of Adelaide*

10:15 AM - 12:00 PM

TA8b3-1 A New Approach for TCP/IP Offload Engine Implementation in Embedded Systems
Koji Hashimoto, Vasily Moshnyaga, Fukuoka University

TA8b3-2 Scalable Multi-core Sonar Beamforming with Computational Process Networks
John Bridgman, Gregory Allen, Brian L. Evans, University of Texas at Austin

TA8b3-3 ASIP Data Plane Processor for Multi-Standard Interleaving and De-Interleaving
Mohit Wani, Zoran Miljanić, Predrag Spasojević, Rutgers University; Jerry Redington, Tensilica Inc.

TA8b3-4 Architecture of a Programmable SoC for Flexible Radio Processing
Onkar Sarode, Zoran Miljanic, Predrag Spasojevic, Rutgers University

TA8b3-5 On Prediction to Dynamically Assign Heterogeneous Microprocessors to the Minimum Joint Power State to Achieve Ultra Low Power Cloud Computing
Kranthimanoj Nagothu, Brian Kelley, Jeff Prevost, University of Texas at San Antonio

TA8b3-6 Parallel - Pipelined Radix-2² FFT Architecture for Real Valued Signals
Manohar Ayinala, Keshab Parhi, University of Minnesota

TA8b3-7 Butterfly and Inverse Butterfly nets integration on Altera NIOS-II embedded processor
Gian Carlo Cardarilli, Luca Di Nunzio, Rocco Fazzolari, Marco Re, University of Rome "Tor Vergata"; Ruby Lee, Princeton University

TA8b3-8 Internal Quantization in FIR Filters Implemented Using Multiple Constant Multiplications
Guifeng (Rick) Liu, Linda DeBrunner, Victor DeBrunner, Florida State University; Kenny Johansson, Airborne Hydrography AB

TA8b3-9 Effect of Order on MCM Implementations of FIR Filters
Abhijit Patil, Linda DeBrunner, Florida State University

TA8b3-10 Selectable Bandwidth Filter Formed from Perfect Reconstruction Polyphase Filter Bank
fred harris, San Diego State University

TA8b3-11 Reconfigurable Multiple Constant Multiplication using Minimum Adder Depth
Mathias Faust, Nanyang Technological University; Oscar Gustafsson, Linköping University; Chip-Hong Chang, Nanyang Technological University

Session TP1a Advances in Multihop and Distributed Wireless Transmission

Chair: *Raymond Knopp, EURECOM*

TP1a-1 Structured Lattice Codes for Wireless Relay Networks 1:30 PM
Suhas Diggavi, Ecole Polytechnique Fédérale de Lausanne / University of California, Los Angeles

TP1a-2 Bounds and Lattice Strategies for Faded Relay Interference Channels 1:55 PM
Abdellatif Zaidi, Luc Vandendorpe, University Catholique de Louvain

TP1a-3 Low-complexity Multiple-relay Strategies for Improving Uplink Coverage in 4G Wireless Networks 2:20 PM
Erhan Yilmaz, Raymond Knopp, Eurecom

TP1a-4 An Industrial Perspective of Relaying 2:45 PM
Federico Boccardi, Volker Braun, Bell Laboratories, Alcatel-Lucent

Session TP1b Wireless Communications

Chair: *Aydin Sezgin, University of Ulm*

TP1b-1 Identifying Wireless Users via Power Amplifier Imperfections 3:30 PM
Sepideh Dolatshahi, Georgia Institute of Technology; Adam Polak, Dennis Goeckel, University of Massachusetts Amherst

TP1b-2 Full-duplex Wireless Communications Using Off-the-Shelf Radios: Feasibility and First Results 3:55 PM
Melissa Duarte, Ashutosh Sabharwal, Rice University

TP1b-3 Low Complexity Approximate Maximum Throughput Scheduling for LTE 4:20 PM
Stefan Schwarz, Christian Mehlführer, Markus Rupp, Vienna University of Technology

TP1b-4 A Stochastic Association Mechanism for Macro-to-Femtocell Handover 4:45 PM
Carlos H. M. Lima, Kaveh Ghaboosi, Mehdi Bennis, Centre for Wireless Communications, University of Oulu; Allen B. MacKenzie, Virginia Polytechnic Institute and State University; Matti Latva-aho, Centre for Wireless Communications, University of Oulu

Session TP2a MIMO Underwater Acoustic Communications

Chair: *Milica Stojanovic, Northeastern University*

- TP2a-1 Precoding in MIMO Underwater Acoustic Communications 1:30 PM
Andrew C. Singer, Erica Daly, Jun Won Choi, University of Illinois; James Preisig, Woods Hole Oceanographic Institution
- TP2a-2 Progressive MIMO-OFDM Reception over Time-varying Underwater Acoustic Channels 1:55 PM
Jianzhong Huang, Jie Huang, Shengli Zhou, Peter Willett, University of Connecticut
- TP2a-3 Rate Bounds for Underwater Relay Channels using MIMO methods 2:20 PM
Chiranjib Choudhuri, Urbashi Mitra, University of Southern California
- TP2a-4 MIMO-OFDM Receiver Design for Channels with Path-Specific Doppler Distortion 2:45 PM
Kai Tu, Tolga M. Duman, Arizona State University; John Proakis, University of California; Milica Stojanovic, Northeastern University

Session TP2b MIMO for Ad Hoc Networks

Chair: *Nihar Jindal, University of Minnesota*

- TP2b-1 Transmission Capacity of Multi-antenna Ad Hoc Networks with CSMA 3:30 PM
Jeffrey Andrews, Radha Krishna Ganti, Andrew Hunter, University of Texas at Austin
- TP2b-2 MIMO Beamforming with Quantized Feedback in Ad Hoc Networks: Transmission Capacity Analysis 3:55 PM
Matthew McKay, Hong Kong University of Science and Technology
- TP2b-3 Optimal SISO and MIMO Spectral Efficiency to Minimize Hidden-Node Network Interference 4:20 PM
Daniel Bliss, Lincoln Labs
- TP2b-4 Optimized Multi-Antenna Communication in Ad Hoc Networks with Opportunistic Routing 4:45 PM
Nihar Jindal, Niranjay Ravindran, Peng Wu, Joseph Blomer, University of Minnesota
- TP2b-5 The Role of Channel Distribution Information in the Cross-Layer Design of Opportunistic Scheduler for MIMO Networks 5:10 PM
Sheu-Sheu Tan, University of California, San Diego; Adam Anderson, University of South Florida; James R. Zeidler, University of California, San Diego

Session TP3a Non-Stationary Processing of Environments

Chair: *Cornel Ioana, Grenoble Institute of Technology, GIPSA-lab*

- TP3a-1 Stable Scatterers Detection and Tracking in Heterogeneous Clutter by Repeat-Pass SAR Interferometry 1:30 PM
Gabriel Vasile, CNRS
- TP3a-2 Non-stationary Signal Analysis in Water Pipes Monitoring 1:55 PM
Cornel Ioana, Grenoble INP
- TP3a-3 Non-stationary Damage State Estimation in Complex Structures Using Time Delay Embedding 2:20 PM
Clyde Coelho, Subhasish Mohanty, Antonia Papandreou-Suppappola, Aditi Chattopadhyay, Arizona State University
- TP3a-4 Estimation of Thermo-hydrodynamic Parameters in Energy Production Systems Using Non-stationary Signal Processing 2:45 PM
Florin Birleanu, GIPSA-lab

Session TP3b Network Information Theory

Chair: *Hamid Sadjadpour, University of California, Santa Cruz*

- TP3b-1 Opportunistic Interference Alignment effects in Cooperative Broadcast of Multiple-Source 3:30 PM
Saeed Bagheri, University of California, Davis; Shrut Kirti, Cornell University; Anna Scaglione, University of California, Davis
- TP3b-2 Study of Throughput and Latency in Finite-buffer Coded Networks 3:55 PM
Nima Torabkhani, Georgia Institute of Technology; Badri Vellambi Ravisankar, University of South Australia; Faramarz Fekri, Georgia Institute of Technology
- TP3b-3 Asymptotic Interference Alignment for Network Coding Applications 4:20 PM
Viveck Cadambe, Syed Jafar, Hamed Maleki, University of California, Irvine
- TP3b-4 Outage Analysis and Optimization for Block Asynchronous Users 4:45 PM
Amir Khandani, University of Waterloo

Session TP4a Modeling for Biomedical Imaging

Chair: *Scott Acton, University of Virginia*

- TP4a-1 Image-based Dynamical Modeling in Developmental Plant Biology 1:30 PM
Amit Roy-Chowdhury, University of California, Riverside
- TP4a-2 A 3D Cellular Resolution Gene Expression Atlas for Drosophila Embryogenesis 1:55 PM
David Knowles, LBNL

TP4a-3 Fluorescence Microscopic Imaging and Image Analysis of the Cytoskeleton 2:20 PM
Gerlind Herberich, Thomas Wuerflinger, Antonio Sechi, RWTH Aachen University; Reinhard Windoffer, Rudolf Leube, University Hospital Aachen; Til Aach, RWTH Aachen University

TP4a-4 Point-Spread Function Model for Fluorescence Macroscopy Imaging 2:45 PM
Praveen Pankajakshan, Institut Pasteur; Zvi Kam, Weizmann Institute; Josiane Zérubia, Laure Blanc-Feraud, INRIA; Gilbert Engler, INRA; Alain Dieterlen, Université de Haute-Alsace; Jean-Christophe Olivo-Marin, Institut Pasteur

Session TP4b Adaptive Filters - Theory and Applications

Chair: *José Carlos M. Bermudez, Federal University of Santa Catarina*

TP4b-1 A Stochastic Analysis of the NLMS Algorithm Implemented in Finite Precision 3:30 PM
Neil Bershad, University of California, Irvine; Jose Carlos M. Bermudez, Federal University of Santa Catarina

TP4b-2 Comparison of LMS and NLMS Adaptive Filters with a Non-stationary Input 3:55 PM
Eweda Eweda, Ajman University of Science & Technology

TP4b-3 Steady State Analysis of the Conventional CLMS and Augmented CLMS Algorithms for Noncircular Complex Signals 4:20 PM
Danilo Mandic, Yili Xia, Imperial College; Scott Douglas, Southern Methodist University

TP4b-4 An Alternate View of Nonlinear Adaptive Filters 4:45 PM
Tokunbo Ogunfunmi, Santa Clara University

TP4b-5 Diffusion LMS with Communications Constraints 5:10 PM
Øyvind Lunde Rørtveit, John Håkon Husøy, University of Stavanger; Ali H. Sayed, University of California, Los Angeles

Session TP5a Statistical Signal Processing for Neural Signals

Chair: *Selin Aviyente, Michigan State University*

TP5a-1 Brain Controlled Robotic Platform Using Steady State Visual Evoked Potentials Acquired by EEG 1:30 PM
Saumitra Dasgupta, Michael Fanton, Jonathan Pham, Michael Willard, Bahram Shafai, Deniz Erdogmus, Northeastern University

TP5a-2 Information-Theoretic Approaches to Identifying Parsimonious Causal Network Models of Functional Connectivity in Ensemble Neural Recordings 1:55 PM
Christopher Quinn, Todd Coleman, Negar Kiyavash, University of Illinois at Urbana-Champaign; Nicho Hatsopoulos, University of Chicago

TP5a-3 Multi-block PLS Model for Group Corticomuscular Activity Analysis in Parkinson Disease 2:20 PM
Joyce Chiang, Z. Jane Wang, University of British Columbia; Martin J. McKeown, Pacific Parkinsons Research Centre, University of British Columbia

TP5a-4 Information Theoretic Approach to Quantifying Causal Neural Interactions from EEG 2:45 PM
Ying Liu, Michigan State University; Edward Bernat, Florida State University; Selin Aviyente, Michigan State University

Session TP5b Integrated Multimodal Sensing

Chair: *Muralidhar Rangaswamy, Air Force Research Laboratory*

TP5b-1 Agile Multi-modal Tracking with Dependent Measurements 3:30 PM
Jun Zhang, Arizona State University; Quan Ding, Steven Kay, University of Rhode Island; Antonia Papandreou-Suppappola, Arizona State University; Muralidhar Rangaswamy, Air Force Research Laboratory

TP5b-2 Sensor Integration for Classification 3:55 PM
Steven Kay, Quan Ding, University of Rhode Island; Muralidhar Rangaswamy, Air Force Research Laboratory

TP5b-3 Closed-Loop Tracking Using Multimodal RF/EO Sensors 4:20 PM
Sean O'Rourke, A. Lee Swindlehurst, Center for Pervasive Communications and Computing

TP5b-4 Design and Performance of a Multimodal Radar Test-Bed for Progressive Resolution Enhancement 4:45 PM
Surendra S. Bhat, Ram M. Narayanan, Pennsylvania State University

Session TP6a Computer Arithmetic II

Chair: *N. Burgess, Bristol University*

TP6a-1 Instruction Set Extensions and Hardware Designs for Triple DES Processing on a Multithreaded Software Defined Radio Platform 1:30 PM
Chris Jenkins, University of Wisconsin-Madison; Michael Schulte, AMD Research and Advanced Development Labs; John Glossner, Sandbridge Technologies

TP6a-2 Opportunities for Estimating Arithmetic in Decimation Filters 1:55 PM
Chao Liu, University of Adelaide; Oscar Gustafsson, Linköping University; Brian Ng, Braden Phillips, University of Adelaide

- TP6a-3 Computer Arithmetic Implemented with QCA: A Progress Report 2:20 PM
Earl Swartzlander, Jr., University of Texas at Austin; Heumpil Cho, Qualcomm Inc.; Inwook Kong, Samsung; Seong-Wan Kim, University of Texas at Austin
- TP6a-4 Overcoming Double-rounding Errors Under IEEE 754-2008 Using Software 2:45 PM
David Lutz, ARM; Neil Burgess, University of Bristol

Session TP6b Computer Arithmetic III

Chair: A. Tenca, Synopsis

- TP6b-1 Complex Division with an FMA 3:30 PM
Claude-Pierre Jeannerod, INRIA, Universite de Lyon; Nicolas Louvet, Universite Claude Bernard Lyon 1, Universite de Lyon; Jean-Michel Muller Muller, CNRS, Universite de Lyon
- TP6b-2 Shaping Probability Density Function of Quantization Noise in Fixed Point Systems 3:55 PM
Karthick Parashar, Daniel Menard, Romuald Rocher, Olivier Sentieys, University of Rennes-1, IRISA/INRIA
- TP6b-3 Towards a Highly Efficient Implementation of Sequential Montgomery Multiplication 4:20 PM
Joao Carlos Neto, University of Sao Paulo; Alexandre Tenca, Synopsis, Inc.; Wilson Ruggiero, University of Sao Paulo
- TP6b-4 Multi-Operand Decimal Addition by Efficient Reuse of a Binary Carry-Save Adder Tree 4:45 PM
Alvaro Vazquez, INRIA; Elisardo Antelo, University of Santiago de Compostela
- TP6b-5 On Equivalences and Fair Comparisons Among Residue Number Systems with Special Moduli 5:10 PM
Behrooz Parhami, University of California, Santa Barbara

Session TP7a Microphone Array Processing for Speech Applications I

Co-Chairs: Bhiksha Raj, Carnegie Mellon University and John McDonough, Disney Research

- TP7a-1 Sparse Sensing with Coprime Arrays 1:30 PM
P. P. Vaidyanathan, Piya Pal, California Institute of Technology
- TP7a-2 A Second-Order-Statistics-based Solution for Online Multichannel Noise Tracking and Reduction 1:55 PM
Mehrez Souden, INRS; Jingdong Chen, Wevoice Inc.; Jacob Benesty, Sofiene Affes, INRS
- TP7a-3 Blind Speech Extraction Combining ICA-based Noise Estimation and Less-Musical-Noise Nonlinear Post Processing 2:20 PM
Hiroshi Saruwatari, Yu Takahashi, Kiyohiro Shikano, Nara Institute of Science and Technology; Kazunobu Kondo, Yamaha Corp.

- TP7a-4 Maximum Negentropy Beamforming using Complex Generalized Gaussian Distribution Model 2:45 PM
Kenichi Kumatani, Barbara Rauch, Saarland University; John McDonough, Disney Research Pittsburgh; Dietrich Klakow, Saarland University

Session TP7b Microphone Array Processing for Speech Applications II

Co-Chairs: Bhiksha Raj, Carnegie Mellon University and John McDonough, Disney Research

- TP7b-1 Localization Based on Source Sparsity 3:30 PM
Petros Boufounos, Mitsubishi Electric Research Labs; Bhiksha Raj, Carnegie Mellon University
- TP7b-2 Group Delay Based Methods for Recognition of Distant Talking Speech 3:55 PM
Rohan Mandala, Mrityunjaya Shukla, Rajesh Hegde, IIT Kanpur
- TP7b-3 Microphone Array Processing for Distance Speech Capture: A Probe Study 4:20 PM
Tao Yu, Chi Zhang, John H.L. Hansen, CRSS: Center for Robust Speech Systems
- TP7b-4 A Prototype of Distant-talking Interface for Control of Interactive TV 4:45 PM
Maurizio Omologo, Fondazione Bruno Kessler
- TP7b-5 An Acoustic Front-End for Interactive TV Incorporating Multichannel Acoustic Echo Cancellation and Blind Signal Extraction 5:10 PM
Klaus Reindl, Yuanhang Zheng, Anthony Lombard, Andreas Schwarz, Walter Kellermann, University of Erlangen-Nuremberg

Session TP8a1 Low Complexity Implementation and Receiver Issues

Chair: Raghu Rao, Xilinx

1:30 PM - 3:10 PM

- TP8a1-1 A Low Complexity Square Root MMSE MIMO Decoder 1:30 PM
Raghu Rao, Helen Tarn, Raied Mazahreh, Chris Dick, Xilinx, Inc.
- TP8a1-2 Low-Complexity Scyzen's Algorithm based Lattice Reduction-Aided MIMO Detection for Hardware Implementations 2:00 PM
Lukas Bruderer, Christian Senning, Andreas Burg, ETH Zurich
- TP8a1-3 Low Complexity PARAFAC Receiver for MIMO-OFDMA System in the Presence of Multi-Access Interference 2:30 PM
Avik Santra, Hari K.V.S., Indian Institute of Science
- TP8a1-4 Adaptive Stream Mapping Multi Antenna Systems with Low Complexity Iterative Detection 3:00 PM
Danshan Chen, Alister Burr, University of York

- TP8a1-5 A Unified Receiver for MIMO Communication With Imperfect Channel Knowledge
Meriam Rezk, Benjamin Friedlander, University of California, Santa Cruz
- TP8a1-6 Performance of a MIMO Receiver Using Joint Channel-Symbol Estimation in the Presence of Channel Errors
Meriam Rezk, Benjamin Friedlander, University of California, Santa Cruz
- TP8a1-7 Design of High Performance MIMO Receivers for LTE/LTE-A Uplink
Meilong Jiang, Narayan Prasad, NEC Labs America, Inc.; Xiaodong Wang, Columbia University
- TP8a1-8 Generalized Spatial Modulation
Abdelhamid Younis, University of Edinburgh; Raed Mesleh, Jacobs University Bremen; Harald Haas, University of Edinburgh
- TP8a1-9 Decision Directed Channel Estimation for Reducing Pilot Overhead in LTE-A
Johanna Ketonen, Markku Juntti, University of Oulu; Jari Ylioinas, Nokia Siemens Networks
- TP8a1-10 A Novel Structure for MMSE Transceivers over Slowly Time-varying Channels
Chih-Hao Liu, P. P. Vaidyanathan, California Institute of Technology
- TP8a1-11 Transmission Techniques and User Selection Schemes for Maximizing Throughput in Multiuser MIMO Systems
Anh Nguyen, Bhaskar D. Rao, University of California, San Diego
- TP8a1-12 Multi-User Beamforming and User Pairing For WiMAX
Thomas Svantesson, Pengcheng Zhan, Gokhan Korkmaz, ArrayComm, LLC

Session TP8a2 Detection & Estimation in Networks

Chair: *John Walsh, Drexel University*

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- TP8a2-1 Delay Constrained Detection in Wireless Sensor Networks
Srikanth Hariharan, Ohio State University; Leonardo Bacheга, Purdue University; Ness Shroff, Ohio State University; Charles Bouman, Purdue University
- TP8a2-2 Malicious Node Detection via Physical Layer Data
Tyler Hardy, Richard Martin, Ryan Thomas, Air Force Institute of Technology
- TP8a2-3 Secure Distributed Detection in the Presence of Eavesdroppers
V Sriram Siddhardh (Sid) Nadendla, Hao Chen, Pramod K Varshney, Syracuse University
- TP8a2-4 Coding Perspectives for Collaborative Estimation Over Networks
Sivagnanasundaram Ramanan, John Walsh, Drexel University

- TP8a2-5 Distributed State and Field Estimation Using a Particle Filter
Florian Xaver, Christoph Mecklenbräuker, Vienna University of Technology; Peter Gerstoft, University of California, San Diego; Gerald Matz, Vienna University of Technology
- TP8a2-6 Detection and Tracking with a Wireless Magnetic Sensor Network
Mehmet Akif Antepi, Middle East Technical University; Sevgi Zubeyde Gurbuz, TUBITAK Space Technologies Research Institute; Elif Uysal-Biyikoglu, Middle East Technical University
- TP8a2-7 Distributed Gauss-Newton Method for Localization in Ad-hoc Networks
Benjamin Béjar Haro, Pavle Belanovic, Santiago Zazo Bello, Universidad Politécnica de Madrid
- TP8a2-8 Multitarget Tracking with the Cubature Kalman Probability Hypothesis Density Filter
Davide Macagnano, Giuseppe Thadeu Freitas de Abreu, Centre for Wireless Communications, University of Oulu

Session TP8a3 Techniques in Networking and Communications

Chair: *A. Lee Swindlehurst, University of California, Irvine*

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- TP8a3-1 Optimal MISO Pre-Equalization for Filter Bank Based Multicarrier Systems
Marius Caus, Ana Isabel Pérez-Neira, Technical University of Catalonia (UPC)
- TP8a3-2 Mean Shift Based Segmentation for Time Frequency Analysis of Packet Based Radio Signals
Goran Ivković, Predrag Spasojević, Ivan Šeškar, Rutgers University
- TP8a3-3 An AOA Estimator for Multiple GPS Signals Using a Modified Despreader
Suk-seung Hwang, Chosun University; John Shynk, University of California, Santa Barbara
- TP8a3-4 Distributed Source Coding in Large Wireless Sensor Networks
Joan Enric Barcelo Llado, Antoni Morell Pérez, Gonzalo Seco Granados, Universitat Autònoma de Barcelona
- TP8a3-5 An Active Distributed Approach for Cyber Attack Detection
Hoa Nguyen, Sandeep Gutta, Qi Cheng, Oklahoma State University
- TP8a3-6 Distributed Signature Learning and Calibration for Large-Scale Sensor Networks
Naveen Ramakrishnan, Emre Ertin, Randolph Moses, Ohio State University

Session TP8b1 Scheduling, Relaying and Routing

Chair: *Phil Schniter, Ohio State University*

3:30 PM - 5:10 PM

- TP8b1-1 Admission Control Based Joint Bandwidth and Power Allocation in Multi-User DF Relay Networks
Xiaowen Gong, Sergiy Vorobyov, Chintha Tellambura, University of Alberta
- TP8b1-2 Broadcast-Relay-Broadcast Channels
Liang Chen, University of Maryland
- TP8b1-3 Opportunistic Scheduling Using ARQ feedback in Multi-Cell Downlink
Sugumar Murugesan, Philip Schniter, Ness Shroff, Ohio State University
- TP8b1-4 Routing Policy-dependent Hop Count Distribution in Wireless Ad Hoc Networks
Goleleh Rahmatollahi, Leibniz University of Hannover; Giuseppe Abreu, University of Oulu
- TP8b1-5 Polar Codes for Compress-and-Forward in Binary Relay Channels
Ricardo Blasco-Serrano, Ragnar Thobaben, Vishwambhar Rathi, Mikael Skoglund, Royal Institute of Technology

Session TP8b2 Statistical and Adaptive Signal Processing

Chair: *Victor DeBrunner, Florida State University*

3:30 PM - 5:10 PM

- TP8b2-1 CDF Resampling for Dataset Expansion in Gaussian Mixture Models Density Estimation
Alessio Medda, The Henry M. Jackson Foundation for the Advancement of Military Medicine, USAARL; Victor DeBrunner, Florida State University
- TP8b2-2 Time Reversal Beamforming of Guided Waves in Pipes with a Single Defect
Nicholas O'Donoghue, Joel Harley, Jose' M.F. Moura, Carnegie Mellon University
- TP8b2-3 On the Predictability of Phase Noise Modeled as Flicker FM Plus White FM
Stamak Yousefi, Joakim Jalden, Royal Institute of Technology
- TP8b2-4 Detection of Circular and Noncircular Signals in the Presence of Circular White Gaussian Noise
Xi-Lin Li, Tulay Adali, Matthew Anderson, University of Maryland, Baltimore County
- TP8b2-5 Statistical Spectral Analysis of Random Gramian Matrices
Davide Macagnano, Giuseppe Thadeu Freitas de Abreu, Centre for Wireless Communications, University of Oulu

TP8b2-6 High-speed Nano-imaging Using Dynamic Mode AFM: A MAP Detection Approach
Naveen Kumar, Iowa State University; Govind Saraswat, Pranav Agarwal, University of Minnesota; Aditya Ramamoorthy, Iowa State University; Murti Salapaka, University of Minnesota

TP8b2-7 A Modified Total Variation Approach for Single Frequency Inverse Scattering
Hatim Alqadah, University of Cincinnati; Matthew Ferrara, Air Force Research Laboratory; Howard Fan, University of Cincinnati

TP8b2-8 A New Method for Moving-Average Parameter Estimation
Petre Stoica, Uppsala University; Lin Du, Jian Li, University of Florida; Tryphon Georgiou, University of Minnesota

TP8b2-9 Clutter Covariance Matrices for GMTI MIMO Radar
Joshua Kantor, Dan Bliss, MIT Lincoln Laboratory

TP8b2-10 Asymptotic Efficiency of Distributed Estimation from Constant Modulus Sensor Transmissions
Cihan Tepedelenlioglu, Mahesh Banavar, Andreas Spanias, Arizona State University

TP8b2-11 Superfast Algorithm for Minimum Variance (Capon) Spectral Estimation
Larry Marple, Georgia Tech Research Institute; Majid Adeli, Huaping Liu, Oregon State University

TP8b2-12 Equidistributed Sampling Sequences for Spectral Analysis
Mustafa Al-Ani, Andrzej Tarczynski, University of Westminster

TP8b2-13 An Online Method for Time-varying Spatial Spectrum Estimation Using a Towed Acoustic Array
Jeffrey Rogers, Jeffrey Krolik, Duke University

TP8b2-14 Sample Covariance Based Estimation of Capon Algorithm Error Probabilities
Christ Richmond, MIT Lincoln Laboratory; Ramis Movassagh, Alan Edelman, Massachusetts Institute of Technology; Robert Geddes, MIT Lincoln Laboratory

TP8b2-15 An Optimal Spatio-Temporal Filter for Extraction and Enhancement of Multi-Channel Periodic Signals
Jesper Rindom Jensen, Mads Græsbøll Christensen, Søren Holdt Jensen, Aalborg University

TP8b2-16 A Closed Form for False Location Injection under Time Difference of Arrival
Lauren Huie, Air Force Research Laboratory; Mark Fowler, State University of New York at Binghamton

Session TP8b3 Biomedical Signals and Images

Chair: *Murray Loew, The George Washington University*

3:30 PM - 5:10 PM

TP8b3-1 Prediction of Biologically Active Regions in Protein Sequences via Best Basis Selection
Ravi Narasimhan, Applied Micro Circuits Corporation

TP8b3-2 Combination of a FIR Filter with a Genetic Algorithm for the Extraction of a Fetal ECG
Mohamed Amine Guettouche, Malika Kedir, Assya Bousbia-Salah, University of Sciences and Technology Houari Boumediene (USTHB)

TP8b3-3 Modeling of the Beat of a Cardiac Signal by Gaussians
Malika Kedir, Hafid Hariz, Saliha Ould-Slimane, University of Sciences and Technology Houari Boumediene (USTHB)

TP8b3-4 Optimal Estimation in DNA Microarrays via Global Optimization
Sang Hyun Lee, Manohar Shamaiah, Haris Vikalo, University of Texas at Austin

TP8b3-5 Design and Implementation of a Long Range Iris Recognition System
Justin De Villar, Robert Ives, James Mately, US Naval Academy

TP8b3-6 Using an FPGA to Accelerate the Hough Transform in Iris Recognition
Jennifer Shafer, Hau Ngo, Robert Ives, United States Naval Academy

Session WA1a Cooperative Communications

Chair: *Xiaoli Ma, Georgia Institute of Technology*

WA1a-1 Robust Collaborative Spectrum Sensing in Cognitive Radio 8:15 AM
Huaiyu Dai, Chengzhi Li, North Carolina State University

WA1a-2 Hybrid Relay Selection in Heterogenous Relay Networks 8:40 AM
Mohamed Abouelseoud, Aria Nosratinia, University of Texas at Dallas

WA1a-3 Achieving Joint Diversity in MIMO Relay Networks with Low-Complexity Equalizers 9:05 AM
Giwan Choi, Georgia Institute of Technology; Wei Zhang, Qualcomm Inc.; Xiaoli Ma, Georgia Institute of Technology

WA1a-4 Performance Analysis of AF/DF Beamforming Relay Networks with Multiple Relay Antennas 9:30 AM
Hyunjun Kim, Cihan Tepedelenlioglu, Arizona State University

Session WA1b Communication Theory

Chair: *Visa Koivunen, Aalto University*

WA1b-1 Equivocation of Eve Using Two Edge Type LDPC Codes for the Erasure Wiretap Channel 10:15 AM
Vishwambhar Rathi, Mattias Andersson, Ragnar Thobaben, Royal Institute of Technology (KTH); Joerg Klierer, New Mexico State University; Mikael Skoglund, Royal Institute of Technology (KTH)

WA1b-2 Achievable Rates in Two-user Interference Channels with Finite Inputs and (Very) Strong Interference 10:40 AM
Frederic Knabe, Aydin Sezgin, Ulm University

WA1b-3 On the Optimality of Channel Inversion with Diversity 11:05 AM
Yuan Zhang, Cihan Tepedelenlioglu, Arizona State University

WA1b-4 Outage Analysis for Hybrid Relaying in the Parallel Relay Network 11:30 AM
Samantha Summerson, Behnaam Aazhang, Rice University

Session WA2a Interference Management I

Chair: *Eduard Jorswieck, Technische Universität Dresden*

WA2a-1 Randomized On-Off Signaling for Asynchronous Interference Channels 8:15 AM
Kamyar Moshksar, Amir Khandani, University of Waterloo

WA2a-2 Learning Based Mechanisms for Interference Mitigation in Self-Organized Femtocell Networks 8:40 AM
Mohsin Nazir, Mehdi Bennis, Kaveh Ghaboosi, Centre for Wireless Communications, University of Oulu; Allen B. MacKenzie, Virginia Polytechnic Institute and State University; Matti Latva-aho, Centre for Wireless Communications, University of Oulu

WA2a-3 Spectrum Allocation and Power Control in OFDM-Based Cognitive Radios with Target SINR Constraints 9:05 AM
Dimitrie C. Popescu, Deepak R. Joshi, Old Dominion University; Octavia A. Dobre, Memorial University of Newfoundland

WA2a-4 Weighted Sum-Rate Maximization for a Set of Interfering Links via Branch and Bound 9:30 AM
Chathuranga Weeraddana, Marian Codreanu, Matti Latva-aho, University of Oulu; Anthony Ephremides, University of Maryland

Session WA2b Interference Management II

Chair: *Anna Scaglione, University of California at Davis*

WA2b-1 A Study on the Optimal Degrees-of-Freedom of Cellular Networks: Opportunistic Interference mitigation 10:15 AM
Bang Chul Jung, Gyeongsang National University; Dohyung Park, Samsung Electronics Co., Ltd.; Won-Yong Shin, Harvard University

WA2b-2 Transport Capacity for Networks of Interfering Multiple-Access Channels 10:40 AM
Christian Peel, Pengcheng Zhan, ArrayComm, LLC

WA2b-3 Interference Management through Mobile Relays in Ad Hoc Networks 11:05 AM
Rohit Naini, Pierre Moulin, University of Illinois at Urbana-Champaign

WA2b-4 Interference Alignment Through Staggered Antenna Switching for MIMO BC With No CSIT 11:30 AM
Chenwei Wang, Tiangao Gou, Syed Jafar, University of California, Irvine

Session WA3a Sensor Networks

Chair: *Milica Stojanovic, Massachusetts Institute of Technology*

- WA3a-1 Sensor Scheduling for Energy-Efficient Target Tracking in Sensor Networks 8:15 AM
George Atia, Jason Fuemmeler, Venugopal Veeravalli, University of Illinois at Urbana-Champaign
- WA3a-2 Clustered Ad-Hoc Networks in the Presence of Interference 8:40 AM
Andrej Stefanov, Milica Stojanovic, Northeastern University
- WA3a-3 Maximizing Lifetime in Wireless Sensor Networks Under Opportunistic Routing 9:05 AM
Michal Kaliszan, Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications
- WA3a-4 Distributed Averaging in Wireless Sensor Networks Under an ALOHA-like Communication Protocol 9:30 AM
Valentin Schwarz, Gerald Matz, Vienna University of Technology

Session WA3b Multiuser Beamforming and Interference Channels

Chair: *Dan Bliss, MIT Lincoln Labs*

- WA3b-1 A Robust and Efficient Transmission Technique for the LTE Downlink 10:15 AM
Gerhard Wunder, Jan Schreck, Fraunhofer MCI, Heinrich-Hertz-Institut
- WA3b-2 Robust Transceiver Design for K-Pairs Quasi-Static MIMO Interference Channels via Semi-Definite Relaxation 10:40 AM
Eddy Chiu, Vincent K. N. Lau, Hong Kong University of Science and Technology; Tao Wu, Sheng Liu, Huawei Technologies, Co. Ltd.
- WA3b-3 MIMO Interference Channel with Confidential Messages: Game Theoretic Beamforming Designs 11:05 AM
Ali Fakoortan, A. Lee Swindlehurst, University of California, Irvine
- WA3b-4 On Duality in the MISO Interference Channel 11:30 AM
Francesco Negro, Eurecom; Irfan Ghauri, Infineon France; Dirk Slock, Eurecom

Session WA4 Advances on Adaptive Filtering and Applications

Co-Chairs: *Jerónimo Arenas-García, Universidad Carlos III de Madrid and Magno Teófilo Madeira da Silva, University of Sao Paulo*

- WA4-1 Nonlinear Adaptive Filtering via Soft Clustered Linear Models 8:15 AM
Andrew C. Singer, Kyeongyeon Kim, Jun Won Choi, University of Illinois; Suleyman Serdar Kozat, Koc University
- WA4-2 Sparsity-Cognizant Subspace Tracking for Dimensionality Reduction 8:40 AM
Ioannis Schizas, Georgios B. Giannakis, University of Minnesota
- WA4-3 Bacterial Motility via Diffusion Adaptation 9:05 AM
Jianshu Chen, Xiaochuan Zhao, Ali H. Sayed, University of California, Los Angeles
- WA4-4 Adaptive Reduced-Rank Beamforming Constrained Least Squares Algorithm Based on the Set-Membership Framework 9:30 AM
Lei Wang, Rodrigo C. de Lamare, The University of York
- BREAK 9:55 AM
- WA4-5 Advances in Identification and Compensation of Nonlinear Systems by Adaptive Volterra Models 10:15 AM
Marcus Zeller, Walter Kellermann, University of Erlangen-Nuremberg
- WA4-6 Adaptive Pre-distortion Techniques Based on Orthogonal Polynomials 10:40 AM
Robert Dallinger, Vienna University of Technology; Henri Ruotsalainen, Risto Wichman, Aalto University School of Science and Technology; Markus Rupp, Vienna University of Technology
- WA4-7 PtNLMS Algorithm Obtained by Minimization of Mean Square Error Modeled by Exponential Functions 11:05 AM
Kevin Wagner, Naval Research Laboratory; Miloš Doroslovački, The George Washington University
- WA4-8 Iterative State Estimation 11:30 AM
Thomas J. Riedl, Andrew C. Singer, University of Illinois at Urbana-Champaign

Session WA5 Statistical Signal Processing

Chair: *Daniel Fuhrmann, Michigan Technological University*

- WA5-1 Biologically Inspired Coupled Antenna Array for Direction of Arrival Estimation 8:15 AM
Murat Akcakaya, Washington University in St. Louis; Carlos H. Muravchik, Universidad Nacional de La Plata; Arye Nehorai, Washington University in St. Louis

WA5-2 Exploiting a Constellation of Narrowband RF Sensors to Detect and Track Moving Targets 8:40 AM
Chris Kreucher, Integrity Applications Incorporated; J. Webster Stayman, Johns Hopkins University; Ben Shapo, Integrity Applications Incorporated; Mark Stuff, Michigan Tech Research Institute

WA5-3 On the Use of Mismatched Wiener Filtering for the Characterization of Non-stationary Channels 9:05 AM
Adrian Ispas, RWTH Aachen University; Laura Bernadó, Telecommunications Research Center Vienna; Meik Dörpinghaus, Gerd Ascheid, RWTH Aachen University; Thomas Zemen, Telecommunications Research Center Vienna

WA5-4 A Lower Bound on the Estimator Variance for the Sparse Linear Model 9:30 AM
Sebastian Schmutzhard, University of Vienna; Alexander Jung, Franz Hlawatsch, Vienna University of Technology; Zvika Ben-Haim, Yonina C. Eldar, Technion - Israel Institute of Technology

BREAK 9:55 AM

WA5-5 Knowledge-aided Parametric GLRT for Space-Time Adaptive Processing 10:15 AM
Pu Wang, Hongbin Li, Stevens Institute of Technology; Braham Himed, Air Force Research Laboratory

WA5-6 Joint Estimation of Target Reflectivity and Local Oscillator Phases in a MIMO Radar Systems with Distributed Assets 10:40 AM
Changyu Sun, Daniel Fuhrmann, Michigan Technological University

WA5-7 Comparison of Nonparametric and Parametric Time-Varying Methods for Quantifying Phase Synchrony 11:05 AM
Ali Mutlu, Selin Aviyente, Michigan State University

WA5-8 Maximum-Likelihood and Best Invariant Orientation Estimation 11:30 AM
Ian Clarkson, University of Queensland; Stephen Howard, Defence Science & Technology Organisation; William Moran, University of Melbourne; Douglas Cochran, Arizona State University; Megan Dawson, University of Queensland

Session WA6a Estimation and Detection

Chair: *Jun Zhang, Arizona State University*

WA6a-1 Joint Map Estimation and Localization using Distance Measurements to Landmarks with Unknown Location 8:15 AM
Andreas Richter, Aalto University

WA6a-2 Distributed Detection over Gaussian Multiple Access Channels with Constant Modulus Signaling 8:40 AM
Cihan Tepedelenlioglu, Sivaraman Dasarathan, Arizona State University

WA6a-3 Matching Pursuits May Yield Superior Results to Orthogonal Matching Pursuits When Secondary Information is Estimated From the Signal Model 9:05 AM
Guifeng (Rick) Liu, Victor DeBrunner, Florida State University

WA6a-4 Adaptive Sensing and Target Tracking of a Simple Point Target with Online Measurement Selection 9:30 AM
Aashish Poudel, Daniel Fuhrmann, Michigan Technological University

Session WA6b SOC Architectures and Applications

Chair: *E. Deprettere, Leiden University*

WA6b-1 PREcision Timed (PRET) Machine 10:15 AM
Isaac Liu, Edward A. Lee, University of California, Berkeley

WA6b-2 Time-predictable Chip-Multiprocessor Design 10:40 AM
Martin Schoeberl, Technical University of Denmark

WA6b-3 Design and Implementation of Real-time Signal Processing Applications on Heterogeneous Multiprocessor Arrays 11:05 AM
Hsiang-Huang Wu, Chung-Ching Shen, University of Maryland; Michael Schulte, AMD Research and Advanced Development Labs; Tong Zhang, Rensselaer Polytechnical Institute; Shuvra Bhattacharyya, University of Maryland

WA6b-4 Buildings as Cyber-physical Energy Systems 11:30 AM
Yuvraj Agarwal, Thomas Weng, Rajesh Gupta, University of California, San Diego

Session WA7a Sparse Representations in Image Processing

Chair: *Shubha Kadambe, Rockwell Collins*

WA7a-1 Compressive Sensing and Vector Quantization Based Image Compression 8:15 AM
Shubha Kadambe, Rockwell Collins Inc.

WA7a-2 Image Sequence Change Detection via Sparse Representations 8:40 AM
Andrew Lingg, Wright State University; Edmund Zelnio, Air Force Research Laboratory; Frederick Garber, Brian Rigling, Wright State University

WA7a-3 Parameterized Deformation Sparse Coding via Tree-Structured Parameter Search 9:05 AM
Brandon Burdge, Kenneth Kreutz-Delgado, Joseph Murray, University of California, San Diego

WA7a-4 A Unified FOCUSS Framework for Learning Sparse Dictionaries and Non-squared Error 9:30 AM
Brandon Burdge, Kenneth Kreutz-Delgado, Joseph Murray, University of California, San Diego

Session WA7b MIMO Radar

Chair: *Benjamin Friedlander, University of California, Santa Cruz*

WA7b-1	High Resolution Parameter Estimation for Ultra-Wideband MIMO Radar <i>Jussi Salmi, Aalto University; Seun Sangodoyin, Andreas Molisch, University of Southern California</i>	10:15 AM
WA7b-2	Quadrature Slow-Time MIMO Radar with Experimental Results <i>Jason Yu, Jeffrey Krolik, Duke University</i>	10:40 AM
WA7b-3	The Applicability of GMTI MIMO Radar <i>Michael Zatman, QinetiQ North America</i>	11:05 AM
WA7b-4	MIMO-VSAR: A High Resolution Radar System for Imaging Moving Scenes <i>Benjamin Friedlander, University of California, San Diego</i>	11:30 AM

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Bhat, Surendra S.	TP5b-4	Chakrabarti, Chaitali	MP6-3	Cui, Shuguang	TA8a1-2	Duncan, James	TA4a-3
Bhattacharyya, Shuvra	WA6b-3	Chakrabarti, Chaitali	MP5-7	Cui, Shuguang	MP1a-4	Edelman, Alan	TP8b2-14
Bhorkar, Abhijeet	MP3b-3	Chakrabarti, Chaitali	MP5-8	Cui, Ying	TA1b-3	Edla, Shwetha	MP5-8
Bickerstaff, K'Andrea	TA8b2-12	Chalise, Batu	TA8b1-11	Daas, Adel	MP8a4-4	Ehtiati, Neda	MA8b1-1
Birleanu, Florin	TP3a-4	Chambers, Jonathon	MP8a1-3	Dahrouj, Hayssam	TA8a1-13	Eldar, Yonina C.	MA8b3-6
Blad, Anton	TA8b2-1	Champagne, Benoit	MA8b1-1	Dai, Huaiyu	WA1a-1	Eldar, Yonina C.	WA5-4
Blad, Anton	TA8b2-11	Chan, Duncan	MA8b2-10	Dallinger, Robert	WA4-6	EIDeeb, Tarek	TA8b2-9
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Blasco-Serrano, Ricardo	TP8b1-5	Chang, Yu-Teng	TA4b-1	Dance, Sarah	MP5-4	Eltawil, Ahmed	MP6-4
Bliss, Dan	TP8b2-9	Chao, Jerry	TA4b-3	Darsena, Donatella	TA8a1-1	Endeshaw, Tadiolo	TA8b1-11
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Blomer, Joseph	TP2b-4	Chatterji, Shourov	MA5b-3	Das Sarma, Debjit	MA6b-1	Ephremides, Anthony	WA2a-4
Boccardi, Federico	TP1a-4	Chattopadhyay, Aditi	TP3a-3	Dasarathan, Sivaraman	WA6a-2	Ercegovic, Miloš D.	MA6b-2
Boufounos, Petros	TP7b-1	Chaudhry, Mohammad Asad	TA1a-3	Dasgupta, Saumitra	TP5a-1	Ercetin, Ozgur	MA3b-3
Bouman, Charles	TP8a2-1	Chen, Danshan	TP8a1-4	Daum, Fred	MA4b-2	Erdogmus, Deniz	TP5a-1
Bousbia-Salah, Assya	TP8b3-2	Chen, Hao	TA5-5	Dawson, Megan	WA5-8	Erdol, Nurgun	MP8a5-2
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Bridgman, John	TA8b3-2	Chen, Jianshu	WA4-3	de Lamare, Rodrigo C.	MP8a4-2	Erting, Emre	TP8a3-6
Bruderer, Lukas	TP8a1-2	Chen, Jie	MP8a4-3	De Lathauwer, Lieven	MA1b-3	Erting, Emre	TA5-8
Brudner, Terry J.	TA2a-4	Chen, Jingdong	TP7a-2	de Luis Balaguer, Maria Angels	TA8a3-5	Esch, Thomas	MP8a2-1
Buchner, Herbert	TA8a3-4	Chen, Liang	TP8b1-2	De Villar, Justin	TP8b3-5	Estlick, Michael	MA6b-1
Buchner, Herbert	TA8a3-11	Chen, Minghua	TA1a-4	Debbah, Mèrouane	TA8a1-16	Evans, Brian L.	TA2a-4
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Bulek, Savaskan	MP8a5-2	Cheng, Qi	TP8a3-5	DeBrunner, Victor	WA6a-3	Eweda, Eweda	TP4b-2
Burdge, Brandon	WA7a-3	Chiang, Joyce	TP5a-3	DeBrunner, Victor	TP8b2-1	Eweda, Eweda	TA8a3-8
Burdge, Brandon	WA7a-4	Chiarotto, Davide	TA8a2-2	DeBrunner, Victor	TA8b3-8	Fahmy, Hossam A. H.	TA8b2-8
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Burg, Andreas	TP8a1-2	Chiu, Yi-Jen	MA8b2-9	Di Nunzio, Luca	TA8b3-7	Fahmy, Hossam A. H.	TA8b2-6
Burg, Andreas	TA2a-2	Cho, Heumpil	TP6a-3	Dick, Chris	TP8a1-1	Fahmy, Hossam A. H.	TA8b2-9
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Burgess, Neil	TP6a-4	Choi, Jun Won	TP2a-1	Dieterlen, Alain	TP4a-4	Fan, Howard	TP8b2-7
Burr, Alistair	TP8a1-4	Choi, Jun Won	WA4-1	Diggavi, Suhas	TP1a-1	Fang, Jun	MP8a1-6
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Cardillo, Peter	MP7b-1	Clerckx, Bruno	TA8b1-1	Dobre, Octavia A.	MA8b1-13	Fleischman, Jay	MA6b-1
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Fujimoto, Masakiyo	MP8a3-7	Gunther, Jacob	TA8a3-9	Hilker, Scott	MA6b-1	Jenserdud, Trond	TA2b-1
Gaaloul, Fakhreddine	TA8a1-14	Gunther, Jacob	TA1b-2	Himed, Braham	WA5-5	Jeon, KiJun	TA8b1-16
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Ganti, Radha Krishna	TP2b-1	Gupta, Rajesh	WA6b-4	Hlinka, Ondrej	MP5-1	Jin, Y.	TA3a-1
Ganti, Radha Krishna	MP3a-2	Gurbuz, Sevgi Zubeyde	TP8a2-6	Ho, Zuleita Ka Ming	TA8b1-4	Jindal, Nihar	MP1b-1
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Georgiev, Todor	TA7-1	Haenggi, Martin	MA3b-2	Huang, Jie	TP2a-2	Jung, Bang Chul	WA2b-1
Georgiev, Todor	MA8b2-5	Hamdi, Maziyar	MP3b-2	Huang, Jim	MA4b-2	Juntti, Markku	TP8a1-9
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Gerig, Guido	TA4a-1	Hammet, Richard	MA5b-2	Huang, Yih-Fang	MP4b-2	Juntti, Markku	TA8b1-12
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Gesbert, David	MP1a-3	Han, Ning	MP8a1-6	Huemer, Mario	TA1b-1	Ka Ming Ho, Zuleita	MP1a-3
Gesbert, David	TA8b1-4	Han, Yuxing	TA8a2-4	Hueske, Klaus	MA8b1-12	Kadambe, Shubha	WA7a-1
Ghaboosi, Kaveh	TA3b-4	Hanly, Stephen	TA8b1-10	Huie, Lauren	TP8b2-16	Kadambe, Shubha	MA8b2-7
Ghaboosi, Kaveh	TP1b-4	Hannemann, Mirko	MP7b-3	Hunter, Andrew	TP2b-1	Kaiser, Thomas	MP8a1-13
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Giannakis, Georgios B.	MP4b-1	Hariz, Hafid	TP8b3-3	Hussien, Amr	MP6-4	Kantor, Joshua	TP8b2-9
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Gibson, Jerry	MP7a-1	harris, fred	MP6-8	Ioana, Cornel	TP3a-2	Kaufman, Brett	TA8a2-5
Gibson, Mark	MA6b-1	Hasegawa-Johnson, Mark	MP8a2-4	Ispas, Adrian	WA5-3	Kay, Steven	TP5b-1
Gilbert, Daniel	MA5b-3	Hashimoto, Koji	TA8b3-1	Ives, Robert	TP8b3-5	Kay, Steven	TP5b-2
Girod, Bernd	TA7-5	Hassan, Mahmoud	TA8b2-9	Ives, Robert	TP8b3-6	Kedir, Malika	TP8b3-2
Glossner, John	TP6a-1	Hassanien, Aboulhasr	TA6b-2	Ivković, Goran	TP8a3-2	Kedir, Malika	TP8b3-3
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Gogineni, Sandeep	TA5-1	Hatsopoulos, Nicho	TP5a-2	Jafar, Syed	WA2b-4	Kellermann, Walter	WA4-5
Golbabaee, Mohammad	MA8b2-2	Haykin, Simon	MA4b-3	Jafari, Mahdi	TA1a-1	Kellermann, Walter	TP7b-5
Goma, Sergio	TA7-3	Haykin, Simon	MA4b-4	Jafarkhani, Hamid	MA2b-1	Kelley, Brian	TA8b3-5
Goma, Sergio	TA7-1	Heath Jr., Robert W.	TA8b1-15	Jaggi, Sidharth	TA1a-4	Ketonen, Johanna	TP8a1-9
Gong, Weibo	MA3b-1	Heath Jr., Robert W.	TA8b1-5	Jalden, Joakim	TP8b2-3	Ketseoglou, Thomas	MA8b1-7
Gong, Xiaowen	TP8b1-1	Heath Jr., Robert W.	TA8b1-8	Jansen, Aren	MA7b-3	Khabbazbasmenj, Arash	TA6b-2
Götze, Jürgen	MA8b1-12	Heese, Florian	MP8a2-1	Jarrett, Daniel P.	MP8a3-8	Khairy, Muhammed	MP6-4
Gou, Tiangao	WA2b-4	Helgde, Rajesh	TP7b-2	Javadi, Ailar	MA5b-2	Khajeh, Amin	MP6-4
Goveas, Kelvin	MA6b-1	Helwani, Karim	TA8a3-4	Javidi, Tara	MP3b-3	Khajehnejad, Amin	TA3a-4
Gray, Alexander	MA5b-2	Helwani, Karim	TA8a3-11	Javidi, Tara	MP3a-3	Khandani, Amir	WA2a-1
Greisen, Pierre	MP6-5	Hencke, Kevin	TA8a3-9	Jeanerod, Claude-Pierre	TP6b-1	Khandani, Amir	TP3b-4
Griffiths, Trace	TA7-8	Henderson, Terry L.	TA2a-4	Jenkins, Chris	TP6a-1	Khandani, Amir	MA2b-3
Guan, Raymond	TA2a-1	Henntonen, Tero	MP8a1-10	Jenkins, Kenneth	MP8a2-6	Kim, Dongku	TA8a1-15
Guettouche, Mohamed Amine	TP8b3-2	Herberich, Gerlind	TP4a-3	Jensen, Jesper Rindom	TP8b2-15	Kim, Dongwoo	MA8b1-10
Gulak, Glenn	MP6-2	Hermansky, Hynek	MA7b-1	Jensen, Søren Holdt	TP8b2-15	Kim, Hobin	TA8a1-4

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Kim, Hyunjun	WA1a-4	Latva-aho, Matti	TA3b-4	Lombard, Anthony	TP7b-5	Mesgarani, Nima	MA7b-3
Kim, Jae Jun	TA8a3-1	Latva-aho, Matti	TP1b-4	Louvet, Nicolas	TP6b-1	Mesgarani, Nima	MA7b-4
Kim, Jonathan	MP8a3-3	Latva-aho, Matti	WA2a-2	Love, David J.	TA8b1-1	Mesleh, Raed	TP8a1-8
Kim, Kwang Soon	TA8b1-16	Lau, Vincent K. N.	TA8a1-15	Lozano, Angel	MP1b-1	Metkar, Prashant	MP8a3-5
Kim, Kyeongyeon	WA4-1	Lau, Vincent K. N.	WA3b-2	Lu, Wei	TA3a-3	Miao, Lifeng	MP5-7
Kim, Lae-Hoon	MP8a2-4	Lau, Vincent K. N.	TA1b-3	Luk, Wayne	TA6a-3	Miljanic, Zoran	TA8b3-4
Kim, Seong-Wan	TP6a-3	Lawless, Amos	MP5-4	Lumsdaine, Andrew	MA8b2-5	Miljanic, Zoran	TA8b3-3
Kim, Taemin	MP2b-1	Leahy, Richard	TA4b-1	Luo, Shuangyu	MP2a-3	Milstein, Laurence B.	TA8a1-4
Kirsteins, Ivars P.	TA6b-3	Lee, Edward A.	WA6b-1	Luo, Zhi-Quan	MP1a-4	Mitra, Urbashi	TA2b-4
Kirti, Shrut.	TP3b-1	Lee, Heungno	MA8b3-3	Lutz, David	TP6a-4	Mitra, Urbashi	TA2b-2
Kiyavash, Negar	TP5a-2	Lee, Inkyu	TA8a1-9	Ma, Xiaoli	WA1a-3	Mitra, Urbashi	TP2a-3
Klakow, Dietrich	TP7a-4	Lee, Junho	MA8b3-3	Ma, Xiaoli	MA8b1-11	Mochaourab, Rami	MP1a-3
Kliewer, Joerg	WA1b-1	Lee, Namjeong	TA8a1-11	Macagnano, Davide	TP8b2-5	Mochaourab, Rami	TA8b1-4
Kliewer, Joerg	TA1b-4	Lee, Ruby	TA8b3-7	Macagnano, Davide	TP8a2-8	Mohanty, Subhasish	TP3a-3
Knabe, Frederic	WA1b-2	Lee, Sang Hyun	TP8b3-4	MacKenzie, Allen B.	TA3b-4	Molisch, Andreas	WA7b-1
Knopp, Raymond	TP1a-3	Lee, Sungeun	MA8b1-11	MacKenzie, Allen B.	TP1b-4	Monga, Vishal	TA7-6
Knowles, David	TP4a-2	Lent, Keith H.	TA2a-4	MacKenzie, Allen B.	WA2a-2	Monticciolo, Paul	MA5b-3
Kobayashi, Mari	TA8a1-16	Leube, Rudolf	TP4a-3	Maddah-Ali, Mohammad Ali	MA2b-3	Moon, Todd	TA8a3-9
Koch, Peter	MP6-8	Leus, Geert	MP8a5-1	Maechler, Patrick	MP6-5	Moon, Todd	TA1b-2
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Koivunen, Visa	MP8a1-10	Lherbier, Régis	MA8b2-3	Maichalemnukul, Kiattisak	MP8a1-13	Moon, Todd	TA8a3-2
Koivunen, Visa	MA8b1-14	Li, Chengzhi	WA1a-1	Makar, Mina	TA7-5	Moran, William	WA5-8
Koksal, C. Emre	MA3b-3	Li, Hongbin	MP8a1-6	Makki Abadi, Bahador	MA1b-4	Morell Pérez, Antoni	TP8a3-4
Kombrink, Stefan	MP7b-3	Li, Hongbin	WA5-5	Malady, Amy	MP8a1-8	Morris, Robert	MP7b-1
Komulainen, Petri	TA8b1-12	Li, Jian	TP8b2-8	Maleki, Hamed	TP3b-3	Moses, Randolph	TP8a3-6
Kondo, Kazunobu	TP7a-3	Li, Jiangyuan	MP2a-3	Malzbender, Tom	TA7-7	Moshksar, Kamyar	WA2a-1
Kong, Inwook	TP6a-3	Li, Na	MP8a5-6	Mandala, Rohan	TP7b-2	Moshnyaga, Vasily	TA8b3-1
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Koulikov, Maria	MP7b-1	Liang, Jie	MP7a-3	Marey, Mohamed	MP8a4-1	Moura, Jose' M.F.	TP8b2-2
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Krasniqi, Bujar	MP8a1-12	Lilleberg, Jorma	TA8a2-5	Martin, Richard	TP8a2-2	Muharar, Rusdha	TA8b1-10
Kreucher, Chris	WA5-2	Lim, Teng Joon	TA8b1-13	Marzetta, Thomas	MP1b-4	Muller, Jean-Michel Muller	TP6b-1
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Kreutz-Delgado, Kenneth	WA7a-4	Lima, Carlos H. M.	TP1b-4	Matta, Vincenzo	MA3b-4	Murray, Joseph	WA7a-3
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Krishnamurthy, Vikram	MP3b-2	Ling, Andrew	WA7a-2	Matz, Gerald	WA3a-4	Murugesan, Sugumar	TP8b1-3
Krogmeier, James V.	TA8b1-1	Lioliou, Panagiota	MP2b-3	Mazahreh, Raied	TP8a1-1	Mutlu, Ali	WA5-7
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Krolik, Jeffrey	TP8b2-13	Liu, Chih-Hao	TP8a1-10	McEachen, John	TA8a2-1	Nadendla, V Sriram Siddhardh (Sid)	TP8a2-3
Kumar, Naveen	TP8b2-6	Liu, Guifeng (Rick)	WA6a-3	McIlhenny, Robert	MA6b-2	Nagaraj, Sunil B.	MP8a3-1
Kumatani, Kenichi	TP7a-4	Liu, Guifeng (Rick)	TA8b3-8	McKay, Matthew	TP2b-2	Nagothu, Kranthimanoj	TA8b3-5
Kurdahi, Fadi	MP6-4	Liu, Huaping	TP8b2-11	McKay, Matthew	TA8b1-7	Naini, Rohit	WA2b-3
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Labeau, Fabrice	MP4a-4	Liu, Keqin	MP3b-1	Mecklenbrauker, Christoph	MP8a1-12	Nakatani, Tomihiro	MP8a3-7
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Lambotharan, Sangarapillai	MP8a1-3	Liu, Wei	TA8b2-4	Medda, Alessio	TP8b2-1	Nannarelli, Alberto	TA8b2-4
Larsson, Erik G.	MA1b-1	Liu, Weifeng	MA4b-3	Mehlfuehrer, Christian	MP8a1-12	Nannarelli, Alberto	MP6-7
Lasaulce, Samson	MP1a-1	Liu, Ying	TP5a-4	Mehlführer, Christian	TP1b-3		
Latva-aho, Matti	WA2a-4	Liu, Yupeng	MA8b1-5	Menard, Daniel	TP6b-2		

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Nannarelli, Alberto	TA8b2-10	Pankajakshan, Praveen	TP4a-4	Rabiei, Payam	MP8a1-11	Ruggiero, Wilson	TP6b-3
Narasimhan, Ravi	TP8b3-1	Pantazis, Dimitrios	TA4b-1	Radaydeh, Redha	TA8a1-14	Rüngeler, Matthias	MP8a2-1
Narayanan, Ram M.	TP5b-4	Pantisano, Francesco	MP8a1-5	Radhakrishnan, Chandra	MP8a2-6	Ruotsalainen, Henri	WA4-6
Navasca, Carmeliza	MP8a5-6	Papadopoulos, Haralabos	MP1b-3	Raghavan, Vasanthan	TA8b1-10	Rupp, Markus	WA4-6
Naylor, Patrick A.	MP8a3-8	Papailiopoulos, Dimitris	MA2b-2	Rahmatollahi, Golaleh	TP8b1-4	Rupp, Markus	MP5-1
Nazir, Mohsin	WA2a-2	Papandreou-Suppappola, Antonia	TP3a-3	Raj, Bhiksha	TP7b-1	Rupp, Markus	TP1b-3
Ndjiki-Nya, Patrick	MA8b2-6	Papandreou-Suppappola, Antonia	TP5b-1	Rajasekharan, Jayaprakash	MA8b1-14	Ryu, Jongyeol	TA8a1-3
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Nehorai, Arye	MP8a5-7	Parhami, Behrooz	TA8b2-7	Ramamoorthy, Aditya	TP8b2-6	Salapaka, Murti	TP8b2-6
Nehorai, Arye	WA5-1	Parhami, Behrooz	TP6b-5	Ramanan, Sivagnanasundaram	TP8a2-4	Salimi, Amir	TA1b-4
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Ng, Brian	TP6a-2	Parikh, Devangi N.	MA7b-2	Rangaswamy, Muralidhar	TP5b-2	Samardzija, Dragan	MP1b-2
Ngo, Hau	TP8b3-6	Park, Dohyung	WA2b-1	Rangaswamy, Muralidhar	TP5b-1	Sanada, Yukiotoshi	MA8b1-2
Nguyen, Anh	TP8a1-11	Park, Sangjun	MA8b3-3	Rao, Bhaskar D.	TA3a-1	Sands, Timothy	TA8a3-1
Nguyen, Hoa	TP8a3-5	Patel, Dimpesh	MP6-2	Rao, Bhaskar D.	MP8a1-9	Sanei, Saeid	MA1b-4
Nguyen, Trung Kien	MP8a1-13	Patil, Abhijit	TA8b3-9	Rao, Bhaskar D.	TP8a1-11	Sangodoyin, Seun	WA7b-1
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Nieman, Karl F.	TA2a-4	Paulraj, Arogyaswami	MP2b-1	Rao, Raghu	TP8a1-1	Santalla del Rio, Veronica	MA8b1-4
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Nosratinia, Aria	WA1a-2	Perrine, Kenneth A.	TA2a-4	Re, Marco	MP6-7	Sarode, Onkar	TA8b3-4
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Senning, Christian	TP8a1-2	Spasojevic, Predrag	TA8b3-4	Thadeu Freitas de Abreu, Giuseppe	TP8a2-8	Verdone, Roberto	MP8a1-5
Sentieys, Olivier	TP6b-2	Spasojević, Predrag	TP8a3-2	Theodoridis, Sergios	MP4b-4	Viberg, Mats	MP2b-3
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Serediuc, Corina I.	MA8b1-3	Sporrer, Benjamin	MP6-5	Thobaben, Ragnar	WA1b-1	Vikaló, Haris	TP8b3-4
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Shen, Xiaohu	TA4b-4	Stojanovic, Milica	WA3a-2	Tourneret, Jean-Yves	MP5-6	Walsh, John	TP8a2-4
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Shin, Won-Yong	WA2b-1	Summerson, Samantha	WA1b-4	Tu, Sheng-Yuan	MP4b-3	Wang, Ning	MP8a1-4
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Slock, Dirk	MP8a2-2	Tang, A. Kevin	TA3b-1	Varshney, Pramod K.	TP8a2-3	Weng, Thomas	WA6b-4
Sluciak, Ondrej	MP5-1	Tang, Gongguo	MA8b3-5	Varshney, Pramod K.	TA5-5	Werner, Stefan	MP4b-2
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Wu, Hsiang-Huang	WA6b-3	Zhang, Jun	MP5-7
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Wu, Jinhong	MP8a1-7	Zhang, Jun Jason	MP5-8
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Wu, Tao	TA8b1-5	Zhang, Rui	TA8a1-2
Wu, Tao	WA3b-2	Zhang, Rui	MP1a-4
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Wunder, Gerhard	WA3b-1	Zhang, Wei	WA1a-3
Xaver, Florian	TP8a2-5	Zhang, Wensheng	MA8b1-2
Xia, Yili	TP4b-3	Zhang, Ying Jun	TA8a1-7
Xiao, Sheng	MA3b-1	Zhang, Yuan	WA1b-3
Xiu, Xiaoyu	MP7a-3	Zhao, Ming	MP8a1-1
Xu, Huilin	MA8b1-15	Zhao, Qing	MP3b-1
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Yehia, Karim	TA8b2-6	Zoghiami, Novlene	MP8a2-5
Yerramalli, Srinivas	TA2b-4	Zorzi, Michele	TA8a2-2
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