

**SIXTIETH
ASILOMAR CONFERENCE ON
SIGNALS, SYSTEMS AND
COMPUTERS**

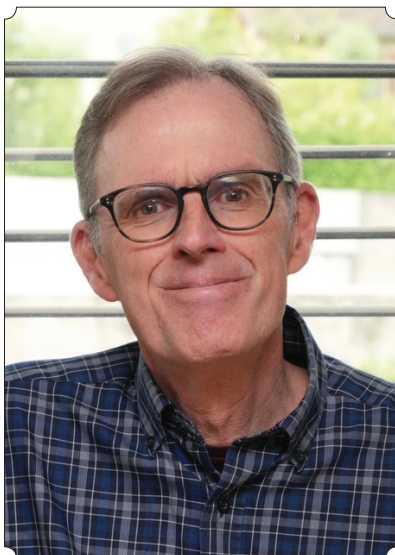


October 25–28, 2026
Asilomar Hotel and
Conference Grounds

Technical Co-sponsor



*Dedicated to the memory of
Dr. Michael (Mike) Bruce Matthews
1959 - 2026*



Mike was an electrical engineer whose work spanned the broad ranges of digital communications, statistical signal processing, estimation and detection, radar, and embedded systems. He held a Ph.D. from ETH Zürich and served in senior technical roles across industry and academia, including appointments at Orbital ATK, Northrop Grumman, the Naval Postgraduate School and ICR. He was the longtime Publications Chair and a Steering Committee member of the Asilomar Conference on Signals, Systems, and Computers. Mike leaves behind his wife Beatrice and 3 sons.

SIXTIETH ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS AND COMPUTERS

Technical Co-Sponsor

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Welcome from the General Chairman

Prof. Chinmay Hegde
New York University

Welcome to the 60th Asilomar Conference on Signals, Systems, and Computers!

Sixty years! This is a remarkable milestone for the conference, and it is my absolute pleasure to welcome you to this special anniversary edition. Since its first meeting in 1967, Asilomar has grown alongside our field—from the early days of circuits and systems—today's work in AI and machine learning, sensing, wireless communications, and computing. Generations of researchers presented their early ideas here, argued about them by the fireplace and the beach, and went home with new ideas, new collaborators, and new friends. Whether this is your first Asilomar or your fortieth, you are part of that sixty-year story, and we are so glad you're here.

Time has passed, but the essence that makes Asilomar special has stayed the same over the decades: an excellent technical program, a relaxed and friendly atmosphere, and one of the most beautiful settings any conference could ask for. The only venue in the world where the best experts in wireless communication, networks, signal processing, machine learning, multi-sensor systems, biomedical data processing, hardware architectures, and image/video processing come together. A place where fresh graduate students can mingle with the most senior among researchers, and where new ideas often get their first public airing. One feature that I have always loved is that final papers are due after the conference, so you can fold into the paper the feedback that you received from this week.

I am especially delighted to welcome our two featured speakers this year. On Sunday, Prof. Sanmi Koyejo from Stanford University will give our overview talk. Sanmi has done breakthrough research that spans trustworthy machine learning, evaluation of AI systems, and fairness and robustness, and his work has revolutionized how we measure and build reliable AI systems. His talk, "What are we estimating when we evaluate AI?," will be on Sunday, October 25 at 17:30 in the Chapel.

On Monday, we are honored to host Prof. Richard Baraniuk from Rice University as our plenary speaker. Rich is a pioneer of the field of compressive sensing, and has made deep and lasting contributions across signal processing and machine learning theory. On a personal note, Rich was my PhD advisor, so it means a great deal to me to welcome him to Asilomar for this special anniversary year edition. His plenary talk, "Learning from Collapse: Self-Consuming Loops in AI and the Humans Who Feed Them," will be on Monday, October 26 at 14:00 in the Chapel.

On Monday night, we are also having a special conference dinner and social event at the Marriott Hotel in downtown Monterey, where we are sure to have great food, great conversations, and great music. I hope to see many of you there!

None of this would happen without a wonderful team. My heartfelt thanks go to our Technical Program Chair, Prof. Salman Asif from the University of California, Riverside, who architected the technical program

this year with great care and diligence. I'm also deeply grateful to our several Technical Area Chairs; they coordinated all the invited sessions, ran the review process, and helped put the program together. This year's program accepted 451 papers; 210 of them were invited. 131 papers were entered in the Student Paper Contest, and our Technical Area Chairs selected 8 finalists. On Sunday, October 25, the finalists will present their work to a panel of judges chaired by Prof Visa Koivunen of Aalto University. The Paper Contest winners will be announced on Monday, October 26 at 13:30 in the Chapel. My deep gratitude also goes to the Asilomar Conference Organization Committee for everything that they do each year to keep this great tradition aflame.

Serving as General Chair for this 60th anniversary edition has been a great privilege. I hope you will find the week as enjoyable and intellectually stimulating as I always have. Catch up with old friends, meet new ones, and keep the conversations going over meals and by the fire and in the Chapel. And please: do make time to enjoy the full Asilomar experience: the coastline, the beaches and dunes, the tide pools and rocky shores, and the unforgettable sunsets.

Chinmay Hegde

New York University

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TRACK H. SPEECH, IMAGE, AND VIDEO PROCESSING

Prof. Chris Metzler
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2026 Asilomar Conference Session Schedule

Sunday Afternoon, October 25, 2026

3:00–5:00 PM	Student Paper Competition
5:15–5:30 PM	Welcome from the Chairs
5:30–6:30 PM	Overview Talk
7:30–9:30 PM	Dessert Reception - Merrill Hall

Monday Morning, October 26, 2026

8:15–9:55 AM	SESSIONS I
MA1a	Predictive Intelligence for Next Generation Wireless Networks
MA2a	Channel Charting
MA3a	Brain and Behavioral Dynamics Through Biomedical Signals
MA4a	Generative AI for Graphs
MA5a	Fast MRI Potpourri
MA6a	Implementation-Aware Decoder Architectures for Modern Coding Paradigms
MA7a	Physics-Aware Computational Imaging Across Extreme Sensing Regimes
MA8a1	Next-Generation MIMO, RIS, and Adaptive Beamforming Systems
MA8a2	Graph Learning, Signal Processing, and Networked Applications
10:15–11:55 AM	SESSIONS II
MA1b	Near-Field MIMO: From Fundamentals to 6G Realization
MA2b	Recent Advances in Signal Processing for ISAC
MA3b	Learning over Networks
MA4b	Generative Modeling for Inverse Problems
MA5b	Advances in Co-Array Processing for DoA Estimation
MA6b	Emerging Technologies for Artificial Intelligence Systems
MA7b	Modern approaches to experimental design
MA8b1	Advances in Satcom and ISAC
MA8b2	Communication and Coding Techniques

Monday Afternoon, October 26, 2026

1:30–2:00 PM	Message from the Chairs and Student Paper Contest Results
2:00–3:10 PM	Plenary Talk
3:30–5:10 PM	SESSIONS III
MP1b	Physics-Consistent Models for Next-Generation Communication Systems
MP2b	XL MIMO Systems
MP3b	Topological Signal Processing and Learning
MP4b	Estimation and Inference
MP5b	DOA Estimation
MP6b	AI and Signal Processing Education
MP7b	Moving Off the Grid: Non-Gridded Learning Representations for Efficient Image and Video
MP8b1	Biomedical Signal Processing: Methods and Applications
MP8b2	Specialized Hardware Architectures and Computer Arithmetic

Monday Evening, October 26, 2026

5:00–10:00 PM	60th Anniversary Dinner
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2026 Asilomar Conference Session Schedule

(continued)

Tuesday Morning, October 27, 2026

8:15–9:55 AM SESSIONS I

- TA1a Physical-Layer Security and Covert Communications
- TA2a New Paradigms for Ultra Wide-Band and Extra-Large Antenna Arrays
- TA3a Networked Neuroscience
- TA4a Advances in Learning-based Image Processing
- TA5a Tensor-Based Array Signal Processing
- TA6a Multiscale Analysis of Neural Signals
- TA7a AI for Medical Imaging: From Spatial and Acoustic Sensing to Clinical Insight
- TA8a1 Statistical Estimation, Detection, and Inference
- TA8a2 Optimization, Sparsity, and High-Dimensional Learning

10:15–11:55 AM SESSIONS II

- TA1b Advanced resource allocation, positioning and swarm intelligence in 6G NTN
- TA2b AI-driven and Digital Twin-enabled MIMO Communications
- TA3b Bayesian Learning and Inference on Graphs
- TA4b Information, Learning, and Genomics
- TA5b Resilience-by-Design in Wireless and Networked Systems
- TA6b Efficient Architectures for Foundation Model Deployment in Resource-Constrained Systems
- TA7b Recent theoretical and algorithmic advances in computational imaging
- TA8b1 Extremely Large Aperture Arrays (ELAAs) and Near-Field Signal Processing
- TA8b2 Array Processing

Tuesday Afternoon, October 27, 2026

1:30–3:10 PM SESSIONS III

- TP1a Machine Learning for Communications
- TP2a Analog Signal Processing with MIMO and Metasurfaces
- TP3a Topology, Dynamics, and Nonlinear Interactions
- TP4a Learning and Inference over Sensor-Driven Networks
- TP5a Sensing and Localization in the networked Systems
- TP6a Security-Aware Architectures for Embedded Systems Against Side-Channel Attacks
- TP7a Learning Compact Representations: Theory and Applications
- TP8a2 Speech, Image, and Video Processing
- TP8a1 Deep Learning, Bandits, and Applications

3:30–5:35 PM SESSIONS IV

- TP1b Spectrum Frontiers
- TP2b Revisiting MIMO for 6G Systems
- TP3b Causality in Graph Learning
- TP4b Neural representations for dynamical physical systems
- TP5b Learning with Limited Supervision
- TP6b Task-driven computational imaging: Redefining Image Quality Assessment and Optimization in the Era of AI
- TP7b Learning and Sensing over the Years
- TP8b Intelligent, Secure, and Reconfigurable Wireless Systems

2026 Asilomar Conference Session Schedule

(continued)

Wednesday Morning, October 28, 2026

8:15–9:55 AM SESSIONS I

- WA1a PHY- and MAC-Layer Techniques
- WA2a Applications of Machine Learning for Future Wireless Networks
- WA3a Modern Machine Learning and Optimization for Wireless Networks
- WA4a Probabilistic Methods for Machine Learning and Signal Processing
- WA5a Learning-Enabled Signal Processing, Communication and Sensing
- WA6a Compression and sparsity in deep learning optimization
- WA7a AI-Native Integrated Communication and Computing in 6G Networks

10:15–11:30 AM SESSIONS II

- WA1b Information Theory and Signal Processing of ISAC Systems
- WA2b ML for Array Processing
- WA3b New Directions in Decentralized Learning
- WA4b Behavioral Control in Foundation Models via First-Principles Approaches
- WA5b Emerging Computational Methods for Biomedical Imaging
- WA6b Domain-Specific Logic and Hardware Acceleration
- WA7b Differentiable modeling

Student Paper Contest

Sunday, October 25, 2026, 3:00–5:00 pm

Track A

Learning Ray-Tracing for Radio Propagation via Cross-Attention-Based Diffusion Models

Juseong Park, Taekyun Lee, Yunchou Xing, Jie Chen, Amitava Ghosh, Jeffrey Andrews

Coordinated Decentralized Resource Optimization for Cell-Free ISAC Systems

Mehdi Zafari, Rang Liu, A. Lee Swindlehurst

Track B

Low-Complexity Detection of Signals under Unknown Bandwidth Constraints

Ali Rasteh, Sundeep Rangan

Track C

Robust Covariance Neural Networks

Andrea Cavallo, Ayushman Raghuvanshi, Sundeep Prabhakar Chepuri, Elvin Isufi

Track D

ModShift: Model Privacy via Designed Shifts

Nomaan Kherani, Urbashi Mitra

Adaptive Attention-Based Model for 5G Radio-based Outdoor Localization

Ilayda Yaman, Guoda Tian, Dino Pjanić, Fredrik Tufvesson, Ove Edfors, Zhengya Zhang, Liang Liu

Track E

Crowd Size Estimation for Non-Uniform Spatial Distributions with mmWave Radar

Anurag Pallaprolu, Aaditya Prakash Kattekola, Winston Hurst, Upamanyu Madhow, Ashutosh Sabharwal, Yasamin Mostofi

Track F

Peak Delta Frequency Regulates the Timing of Decisions

Logan Peters, Greg Bales, Vincent Tran, Ariana Moghbel, Zhaodan Kong, Karen Moxon

Track G

Finite Word-Length Effects for Symmetric Matrix Inversion with Vector-Based Algorithms

Olle Hansson, Jose Nunez-Yanez, Oscar Gustafsson

Track H

Seeing Heat with Color - RGB-Only Wildfire Temperature Inference from SAM-Guided Multimodal Distillation using Radiometric Ground Truth

Michael Marinaccio, Fatemeh Afghah

2026 Asilomar Conference Session Schedule

Sunday, October 25, 2026, 5:30–6:30 pm

Overview Talk

What Are We Estimating When We Evaluate AI?

Prof. Sanmi Koyejo

Stanford University and Meta

Abstract

AI evaluation rarely declares the quantity its numbers estimate. That omission shows up as claims that don't survive audit. Agent configurations that clear the subtasks fail the workflows those subtasks compose. Separate harness variance from model variance and the leaderboard leader changes. A flagship coding benchmark was withdrawn by its own creator, its central claim never validated.

The failures localize to two regimes that call for opposite fixes. When the trouble is sampling error, the machinery works: item-level modeling and adaptive selection give reliable comparisons from fewer items. Specification error is harder, because the same fixes measure the wrong thing more precisely, and spreading evidence across benchmarks entrenches shared error instead of averaging it away. Where scores carry stakes, specification error becomes adversarial. Systems optimize against the instrument, and validity becomes an incentive property. The open problems are experimental: how long a claim holds, and which interventions would identify what a score means.

Biography

Sanmi Koyejo is an Associate Professor in the Department of Computer Science at Stanford University and a research scientist at Meta. Koyejo leads the Stanford Trustworthy AI Research (STAIR) lab, which develops measurement-theoretic foundations for trustworthy AI systems, spanning AI evaluation science, algorithmic accountability, and privacy-preserving machine learning. Koyejo has received the Presidential Early Career Award for Scientists and Engineers (PECASE), the Skip Ellis Early Career Award, the Alfred P. Sloan Research Fellowship, the NSF CAREER Award, and multiple outstanding paper awards at flagship venues, including NeurIPS and ACL. He has delivered keynote presentations at major conferences, including ECCV and FAccT. He serves in key leadership roles, including as Board President of Black in AI, on the Board of Directors of the Neural Information Processing Systems Foundation, and in other leadership positions in professional organizations that advance AI research and broaden participation in the field.

Monday, October 26, 2026, 2:00–3:10 pm

Distinguished Lecture for the 2026 Asilomar Conference

**Learning from Collapse: Self-Consuming Loops in AI
and the Humans Who Feed Them**

Prof. Richard Baraniuk
Rice University

Abstract

Training generative models on synthetic data creates feedback loops that amplify artifacts and bias and degrade quality and diversity, a phenomenon known as model collapse or MADness. This talk makes two turns. First, we show how to learn from collapse: the way a model degrades under self-training can tell us how to improve it. Second, we ask whether collapse might reach beyond models: fresh real data can stabilize self-consuming loops, but generative AI is beginning to reshape human language, ideas, and attention. Humans may no longer be outside the loop.

Biography

Richard G. Baraniuk is the C. Sidney Burrus Professor of Electrical and Computer Engineering at Rice University and the Founding Director of OpenStax and SafeInsights. His research interests lie in new theory, algorithms, and hardware for machine learning, signal processing, and sensing. He is a Member of the National Academy of Engineering and American Academy of Arts and Sciences and a Fellow of the National Academy of Inventors, AAAS, and IEEE. He has received the DOD Vannevar Bush Faculty Fellow Award, the IEEE Jack S. Kilby Signal Processing Medal, the IEEE Signal Processing Society Technical Achievement and Society Awards, the Harold W. McGraw, Jr. Prize in Education, and the IEEE James H. Mulligan, Jr. Education Medal, among others.

**Program of the
2026 Asilomar Conference on
Signals, Systems, and Computers**

**Technical Program Chairman
Salman Asif
New York University**

Session MA1a Predictive Intelligence for Next Generation Wireless Networks

Co-Chairs: *Khac-Hoang Ngo, Linköpings Universitet, Sweden; Alejandro Lancho Serrano, Universidad Carlos III de Madrid, Spain and Giuseppe Durisi, Chalmers University of Technology, Sweden*

- MA1a.1 Predictive Signal Strength from 3D Urban Images: Can Diffusion Models Replace Ray Tracing? 8:15 AM
Arpan Das, Department of Electrical and Computer Engineering, The University of Texas at Austin, United States; Amitava Ghosh, Nokia, United States; Kaushik Chowdhury, Jeffrey Andrews, Department of Electrical and Computer Engineering, The University of Texas at Austin, United States
- MA1a.2 Latent-Consistent Temporal Compression for Incremental CSI Feedback in Time-Varying Massive MIMO 8:40 AM
Efstathios Chatziloizos, Linköping University / Ericsson Research, Sweden; Konstantinos Vandikas, Aneta Vulgarakis Feljan, Ericsson Research, Sweden; Zheng Chen, Nikolaos Pappas, Linköping University, Sweden
- MA1a.3 Real-Time Text Transmission via LLM-Based Entropy Coding over Fixed-Rate Channels 9:05 AM
Vishnu Teja Kunde, Jean-Francois Chamberland, Krishna Narayanan, Texas A&M University, United States; Jamison Ebert, Brigham Young University, United States
- MA1a.4 Adaptive Rate-Splitting under Channel Uncertainty and Interference 9:30 AM
David Garrido, Universidad Carlos III de Madrid, Spain; Marcos M. Vasconcelos, Florida State University, Spain; Borja Peleato, Universidad Carlos III de Madrid, Spain

Session MA2a Channel Charting

Chair: *Maxime Guillaud, Inria, France*

- MA2a.1 Model-based feedforward architecture for efficient, interpretable and versatile channel charting 8:15 AM
Yara Kafa, Institut National des Sciences Appliquées de Rennes, France; Steve Sawadogo, Vincent Savaux, Institute of Research and Technology b<>com, France; Matthieu Crussière, Joumana Farah, Luc Le Magoarou, Institut National des Sciences Appliquées de Rennes, France
- MA2a.2 Towards Real-Time RIS Configuration: A Channel Charting Approach 8:40 AM
Mahdi Maleki, Reza Aghazadeh Ayoubi, Marouan Mizmizi, Umberto Spagnolini, Politecnico di Milano, Italy
- MA2a.3 Democratizing Label-Free Localization: On-Device WiFi-RTT Channel Charting 9:05 AM
Jonas Pirkel, Jonathan Ott, Lukas Schelenz, Luca Böhm, Andreas Eidloth, Tobias Feigl, Christopher Mutschler, Fraunhofer Institute for Integrated Circuits IIS, Germany

- MA2a.4 Wi-Fi-based Positioning: A Channel Charting App 9:30 AM
Frederik Zumegen, Fatih Özdemir, ETH Zürich, Switzerland; Olav Tirkkonen, Aalto University, Finland; Christoph Studer, ETH Zürich, Switzerland

Session MA3a Brain and Behavioral Dynamics Through Biomedical Signals

Chair: *Behnaz Ghoraani, Florida Atlantic University, United States*

- MA3a.1 Dynamical Systems Modeling of Reward Prediction Errors During Risky Decisions 8:15 AM
Karen A Moxon Moxon, Rocelle Evangelista, Mohammad Taghi Ghodrati, University of California Davis, United States
- MA3a.2 EEG Functional Connectivity During Walking Reveals New Biomarkers for Mild Cognitive Impairment 8:40 AM
Marjan Nassajpour, Mahmoud Seifollahi, Florida Atlantic University, United States; James Galvin, University of Miami, United States; Behnaz Ghoraani, Florida Atlantic University, United States
- MA3a.3 Systematic Analysis and Interactive Hyperparameter Tuning of DASSO Algorithms with Applications to Spatiotemporal Discrimination of Neural Activity Across Cognitive Tasks 9:05 AM
Weinan Wang, Siwei Mai, Laleh Najafizadeh, Rutgers University, United States
- MA3a.4 Meditation Induced Modulation of Functional Connectivity 9:30 AM
Gul Efsan Ozbekoglu, Angqi Li, Saiprasad Ravishankar, Michigan State University, United States; Selin Aviyente, MSU, United States

Session MA4a Generative AI for Graphs

Co-Chairs: *Santiago Segarra, Rice University, United States and Nicolas Zilberstein, Rice University, United States*

- MA4a.1 Nonlinear Laplacians Improve Signed-Directed Graph Learning 8:15 AM
Ali Parviz, Gal Mishne, Alex Cloninger, UC San Diego, United States; Yuichi Yoshida, National Institute of Informatics, Japan
- MA4a.2 Learn to Explore: Meta NAS via Bayesian Optimization Guided Graph Generation 8:40 AM
Zijun Sun, Yanning Shen, University of California, Irvine, United States
- MA4a.3 MrsFormer: Transformer with Multiresolution-head Attention 9:05 AM
Tho Tran Huu, National University of Singapore, Singapore; Tam Minh Nguyen, Rice University, United States; Minh Pham, University of California, Los Angeles, United States; Tan Minh Nguyen, National University of Singapore, Singapore

- MA4a.4 DAG-PnP: Plug-and-Play Causal Discovery 9:30 AM
with Diffusion Priors
Nicolas Zilberstein, Ali Azizpour, Rice University, United States; Gonzalo Mateos, University of Rochester, United States; Santiago Segarra, Rice University, United States

Session MA5a Fast MRI Potpourri

Co-Chairs: *Yamin Arefeen, University of Texas, United States and Jon Tamir, University of Texas, United States*

- MA5a.1 Resolution-acceleration tradeoff in AI-based 8:15 AM
multi-coil MRI
Yamin Arefeen, Jonathan Tamir, The University of Texas at Austin, United States
- MA5a.2 Ultrafast Dynamic Contrast-Enhanced MRI 8:40 AM
via Tissue-Aware Low-Rank Subspace Modeling
and Deep Learning
Eddy Solomon, Technion - Israel Institute of Technology, Israel
- MA5a.3 Multiscale energy models for efficient 9:05 AM
posterior image recovery
Mathews Jacob, Jyothi Rikhab Chand, University of Virginia, United States
- MA5a.4 Precise, reproducible quantitative MRI across 9:30 AM
scales and field strengths
Berkin Bilgic, Massachusetts General Hospital, Harvard Medical School, United States; Yuting Chen, Zhejiang University, China; Jiye Kim, Unay Dorken Gallastegi, Massachusetts General Hospital, Harvard Medical School, United States; Shizhuo Li, Zhejiang University, China; Yohan Jun, Massachusetts General Hospital, Harvard Medical School, United States

Session MA6a Implementation-Aware Decoder Architectures for Modern Coding Paradigms

Chair: *Warren Gross, McGill University, Canada*

- MA6a.1 Mapping the SC-LDPC Decoder Design 8:15 AM
Space: from Windowed to Full Belief Propagation
Leyu Zhang, Yuqing Ren, Andreas Burg, EPFL, Switzerland
- MA6a.2 High-Level Synthesis Based Hardware 8:40 AM
Implementation Framework for Decoding Long
Product Codes via GRAND
Tuomas Aaltonen, Syed Mohsin Abbas, Tampere University, Finland
- MA6a.3 Hardware Architecture for Quantum Dithered 9:05 AM
Belief Propagation Decoding
Mohamad Ali Jarkas, Zhengyu Cai, Bokun Zhao, Warren Gross, McGill University, Canada

MA6a.4 Sequential Automorphism Ensemble 9:30 AM
Decoding with Early Stopping
Charles Pillet, Pascal Giard, Bassant Selim, Ecole de technologie supérieure, Canada; François Leduc-Primeau, Polytechnique Montreal, Canada

Session MA7a Physics-Aware Computational Imaging Across Extreme Sensing Regimes

Chair: *Adithya Pediredla, Dartmouth University, United States*

- MA7a.1 Polarization-guided visual computing for 8:15 AM
extreme 3D perception
Akshat Dave, Stony Brook University, United States
- MA7a.2 Extreme broadband imaging with mirrors 8:40 AM
Alper Kayabashi, Niki Nezakati, Amit Roy-Chowdhury, University of California Riverside, United States; Vivek Boominathan, Rice University, United States; Vishwanath Saragadam, University of California Riverside, United States
- MA7a.3 High-Speed Computational Imaging with 9:05 AM
Acousto-Optics
- MA7a.4 Ultra-Wideband Single-Photon Sensing 9:30 AM
Sotiris Nousias, Purdue University, United States

Session MA8a1 Next-Generation MIMO, RIS, and Adaptive Beamforming Systems

Chair: *Poorya Mollahosseini, Princeton University, United States*

8:15 AM–9:55 AM

- MA8a1.1 CRISP: Distributed RIS Optimization via Cooperative 8:15 AM
User Devices
Ruwei Yao, Zhejiang Gongshang University, China; I. Zakir Ahmed, Hamid Sadjadpour, UCSC, United States
- MA8a1.2 A Novel Framework for the Characterization of 8:40 AM
Continuous Electromagnetic Manifolds
Kuranage Roche Rayan Ranasinghe, Constructor University, Germany; Miguel Rodrigo Castellanos, University of Tennessee, Knoxville, United States; Giuseppe Thadeu Freitas de Abreu, Constructor University, Germany
- MA8a1.3 Analytical Framework and Pareto Trade-offs for Variable 9:05 AM
Envelope Outphasing in Combinerless Large-Scale Antenna Arrays
Kingsley Momor, Bilal Khan, Aarno Pärssinen, Nuutti Tervo, University Of Oulu, Finland
- MA8a1.4 RIS Channel Estimation and Localization using Non- 9:30 AM
Circular Process Noise Model KF and CRLBs
Zhuoxuan Ju, Miloš Doroslovački, The George Washington University, United States

- MA8a1.5 **Hardware-Efficient Long-Term Beamforming for Extreme MU-MIMO Systems**
Ali Rasteh, NYU Tandon School of Engineering, United States; Amirreza Kiani, Marco Mezzavilla, Politecnico di Milano, Italy; Sundeep Rangan, NYU Tandon School of Engineering, United States
- MA8a1.6 **Space-Time Adaptive Beamforming for Satellite Communications under Spatial User Crowding**
Hyeongtak Yun, Jeonghun Park, Yonsei university, Republic of Korea
- MA8a1.7 **Joint Beamforming and RIS Deployment Optimization for Outdoor-to-Indoor Coverage at Upper Mid-Band: A Dual-Band Ray-Tracing Study**
Mingjun Ying, Guanyue Qian, Xinquan Wang, Xingchen Liu, Ishaan S. Gupte, Dipankar Shakya, Theodore S. Rappaport, New York University, United States
- MA8a1.8 **Support-Point Dictionary Search for Spatially Variant Motion Compensation in LFM CW mmWave SAR**
Yu-Ting Kao, Chia-Cheng Hao, Dylan Poppert, Di An, Trac Tran, Johns Hopkins University, United States
- MA8a1.9 **Deep Reinforcement Learning for Dynamic Switch Network Configuration in XL-MIMO Hybrid Precoding**
Jakob Rylo, Zahraalsadat Alavizadeh, Benoit Champagne, McGill University, Canada
- MA8a1.10 **Centralized Learning-Assisted AP/RIS Optimization for Real-Time Indoor XR Communications**
Ali Elghariani, King AbdulAziz University, Saudi Arabia; Mohammed Elbamby, Telefonica, Spain; Anis Elgabri, KFUPM, Saudi Arabia
- MA8a1.11 **On the Closed-Form (Un-)Solvability of RIS Capacity Optimization in MISO/SIMO**
Juan Vidal Alegria, Ove Edfors, Lund University, Sweden
- MA8a1.12 **Bessel-Beam Sweeping Based on Near-Field Channel Modeling with Quasi-Line-of-Sight**
Akira Shigyo, Koji Ishibashi, The University of Electro-Communications, Japan
- MA8a1.13 **High-Precision Analog Beamforming with Off-the-Shelf Phased Arrays**
Dominic Olson, Ian Roberts, University of California, Los Angeles (UCLA), United States
- MA8a1.14 **Robust MIMO Detection via Calibrated Langevin Sampling Under Imperfect Channel Estimation**
Van-Chung Luu, Duy H. N. Nguyen, San Diego State University, United States
- MA8a1.15 **Capabilities and performance of a real-time 256-antenna D-MIMO testbed**
Lina Tinnerberg, Vilgot Snygg, Dumitra Iancu, Sijia Cheng, August Svensson, Baktash Behmanesh, Liang Liu, Ove Edfors, Lund University, Sweden
- MA8a1.16 **Joint Time-Bandwidth-Power-Antenna Optimization for Energy-Efficient MIMO Radio Units**
Foad Sohrabi, Jinfeng Du, Nokia Bell Labs, United States

- MA8a1.17 EVM-Aware MIMO Transceiver Design for Wireless Communications
Tzu-Hsuan Chou, Chih-Hao Liu, Byunghyun Lee, Jing Jiang, Qualcomm, United States
- MA8a1.18 RIS-Assisted Near-Field Sensing in 5G O-RAN Systems Using Downlink PRS
Tawfik Osman, Ahmed Alkhateeb, Arizona State University, United States
- MA8a1.19 Bilevel Optimization for RIS-assisted Full-Duplex Systems
Pooja Nuti, Brian L. Evans, The University of Texas Austin, United States

Session MA8a2 Graph Learning, Signal Processing, and Networked Applications

Co-Chairs: *Caio Netto, Johns Hopkins University and Geert Leus, TU Delft, Netherlands*

8:15 AM–9:55 AM

- MA8a2.1 Improving Noise Robustness in Frame-Potential-Based Graph Signal Sampling
Jana M. Hauer, Vincent P. Grande, Michael T. Schaub, RWTH Aachen University, Germany
- MA8a2.2 Hyperbolic Embeddings under Unknown Edges
Federico Larroca, Paola Bermolen, Marcelo Fiori, Sofia Pérez Casulo, Facultad de Ingeniería, Universidad de la República, Uruguay
- MA8a2.3 Beyond Depth and Width: Dendritic Architectural Contributions to Efficient Image Classification
Zeinab Ahmadi, Spyridon Chavlis, Panayiota Poirazi, Foundation for Research and Technology Hellas (FORTH), Greece
- MA8a2.4 Weighted Community Detection for Signed Multilayer Brain Networks
Sema Athamnah, Selin Aviyente, Michigan State University, United States
- MA8a2.5 INFERRING THE GRAPH STRUCTURE OF IMAGES FOR GRAPH NEURAL NETWORKS
Mayur S. Gowda, John Shi, Carnegie Mellon University, United States; Augusto Santos, Instituto de Telecomunicações-IT, Portugal; José M. F. Moura, Carnegie Mellon University, United States
- MA8a2.6 On the Robustness of Geometric Graph Neural Networks to Manifold Perturbations
Caio Deberaldini Netto, Joshua Brown, Luana Ruiz, Johns Hopkins University, United States
- MA8a2.7 Adaptive Safety Policies for AMR Fleets: A Benchmark Study of the Safety-Delay Trade-off in Human-Shared Workspaces
Jiachen Li, Shihao Li, Jian Chu, Soovadeep Bakshi, Dongmei Chen, UT Austin, United States

- MA8a2.8 Differentially Private Synthetic Voltage Phasor Release via Power-Flow Propagation of Loads
Andrew Campbell, Chenyue ZHANG, Anna Scaglione, Cornell University, United States; Sean Peisert, Lawrence Berkeley National Laboratory, United States
- MA8a2.9 GeomFuse: Geometry-Driven Label Fusion using LLM Embeddings
Ecem Bozkurt, Antonio Ortega, University of Southern California, United States
- MA8a2.10 Sparse Graph Learning from Sparse Data via Fiedler Number Maximization
Bahar OveisGharan, Gene Cheung, Andrew Eckford, York University, Canada
- MA8a2.11 Iterative Message Passing Algorithms for Combined Team Formation and Assignment Problems
Alexios Rustom, University of Southern California, United States; Van Hovenga, University of California, Berkeley, United States; Thomas R. Halford, Caliola Engineering, United States; Keith M. Chugg, University of Southern California, United States
- MA8a2.12 Low-Distortion Adaptive Spline Companding with Rational Peak Shaping for PAPR Reduction in OTFS Modulation
Svetislav Maric, UC San Diego, United States; Lazar Velimirovic, Serbian Academy of Sciences and Arts, Yugoslavia
- MA8a2.13 Distributed Covariance-Agnostic Latent State Estimation with Consensus: A Model-Based Deep Learning Approach
George Stamatelis, Kyriakos Stylianopoulos, George Alexandropoulos, National and Kapodistrian University of Athens, Greece
- MA8a2.14 SchedPriv: A Randomized Scheduling approach to Model Privacy in Federated Learning
Nomaan Kherani, Urbashi Mitra, University of Southern California, United States
- MA8a2.15 Game-Theoretic Federated Aggregation for 6G Edge Intelligence Under Byzantine Attacks
Farhan Hamid, Nicolò Michelusi, Arizona State University, United States
- MA8a2.16 Personalized Federated Uncertainty-Aware LLM Fine-Tuning
Haotian Xiang, University of Georgia, United States; Ping Xu, Georgia State University, United States; Zhi Tian, George Mason University, United States; Qin Lu, University of Georgia, United States
- MA8a2.17 A Line-search-free Method for Adaptive Decentralized Optimization
Xiaokai Chen, Purdue University, United States; Ilya Kuruzov, Innopolis University, Russian Federation; Gesualdo Scutari, Purdue University, United States
- MA8a2.18 Learning to Preserve Fisher Information for Estimation-Oriented Fixed Bit-Budget Compression
Amir Weiss, Bar-Ilan University, Israel

Session MA1b Near-Field MIMO: From Fundamentals to 6G Realization

Chair: *Josep Jornet, Northeastern University, United States*

- MA1b.1 Polarization-Aware Near-Field Focusing with 2D Waveguide-Fed Metasurfaces 10:15 AM
Panagiotis Gavriilidis, National and Kapodistrian University of Athens, Greece; Nuria Gonzalez-Prelcic, University of California San Diego, United States; George C. Alexandropoulos, National and Kapodistrian University of Athens, Greece
- MA1b.2 Three-Dimensional Steering and Control of Bessel Beams with Reconfigurable Intelligent Surfaces: Closed-Form Phase Design and Experimental Validation 10:40 AM
Daiki Inoue, Koji Ishibashi, The University of Electro-Communications, Japan
- MA1b.3 Physics-Informed Robust Beamforming for Near-Field Communications Under Position Errors 11:05 AM
Poorya Mollahosseini, Yasaman Ghasempour, Princeton University, United States
- MA1b.4 Near-Field MIMO Link Characteristics at the J-Band: An Experimental Approach Using the ACES Testbed 11:30 AM
Priyangshu Sen, Pin Chi Liang, SUNY Polytechnic Institute, United States; Arjuna Madanayake, Florida International University, United States; Arjun Singh, SUNY Polytechnic Institute, United States

Session MA2b Recent Advances in Signal Processing for ISAC

Co-Chairs: *Marwa Chaffi, New York University, United States and Nuria Gonzalez Prelcic, University of California, San Diego, United States*

- MA2b.1 Collaborative Radio SLAM toward 6G Cellular: Tracking Methods and Performance Results 10:15 AM
Radovan Juran, Ossi Kaltiokallio, Tampere University, Finland; Julia Equi, Ericsson Research, Finland; Jukka Talvitie, Simona Lohan, Tampere University, Finland; Jose Lopez Salcedo, Gonzalo Seco Granados, Universitat Autònoma de Barcelona, Spain; Mikko Valkama, Tampere University, Finland
- MA2b.2 A Time-Frequency Domain Approach for OTFS Channel Estimation 10:40 AM
Kailong Wang, Athina Petropulu, Rutgers, United States
- MA2b.3 Likelihood-Based Wireless Localization with Last-Bounce Spatial Features 11:05 AM
Roberto Bomfin, New York University (NYU) Abu Dhabi, United Arab Emirates; Haozhe Lei, Sundeep Rangan, NYU WIRELESS, Tandon School of Engineering, New York University, United States; Marwa Chaffi, New York University (NYU) Abu Dhabi, United Arab Emirates

- MA2b.4 Time and frequency synchronization for distributed ISAC exploiting static multipath maps 11:30 AM
Abdoulie Njie, Nuria Gonzalez Prelcic, University of California San Diego, United States

Session MA3b Learning over Networks

Chair: *Paolo Di Lorenzo, Sapienza Università di Roma, Italy*

- MA3b.1 Learning Graph Signal Generative Models 10:15 AM
Yigit Berkay Uslu, Samar Hadou, University of Pennsylvania, United States; Sergio Rozada, King Juan Carlos University, Spain; Shirin Saeedi Bidokhti, Alejandro Ribeiro, University of Pennsylvania, United States
- MA3b.2 A Hierarchical Approach to Multitask Learning Over Networks 10:40 AM
Aaron Fainman, Stefan Vlaski, Imperial College London, United Kingdom
- MA3b.3 Bayesian Graph Learning via Langevin Dynamics with Tractable Proximity Priors 11:05 AM
Victor M. Tenorio, King Juan Carlos University, Spain; Santiago Segarra, Rice University, United States; Antonio G. Marques, King Juan Carlos University, Spain
- MA3b.4 Inverse Cross-spectral Neural Networks for Multivariate Time Series 11:30 AM
Lorenzo Marinucci, Leonardo Di Nino, Gabriele D'Acunto, Paolo Di Lorenzo, Sergio Barbarossa, Sapienza University of Rome, Italy

Session MA4b Generative Modeling for Inverse Problems

Co-Chairs: *Yu Sun, Johns Hopkins University, United States and Qing Qu, University of Michigan, United States*

- MA4b.1 Global Attention with Linear Complexity for Exascale Generative Data Assimilation in Earth System Prediction 10:15 AM
Guannan Zhang, Oak Ridge National Laboratory, United States
- MA4b.2 Title: Beyond scores: proximal diffusion models 10:40 AM
Zhenghan Fang, Mateo Diaz, Johns Hopkins University, United States; Sam Buchanan, UC Berkeley, United States; Jeremias Sulam, Johns Hopkins University, United States
- MA4b.3 The Geometry of Noise: Why Diffusion Models Don't Need Noise Conditioning 11:05 AM
Mojtaba Sahraee-Ardakan, Mauricio Delbracio, Peyman Milanfar, Google, United States
- MA4b.4 Conservation-constrained diffusion maps for dynamic radiography in hydrodynamics 11:30 AM
Aviral Prakash, Khoa Nguyen, Daniel Serino, Marc Klasky, Los Alamos National Laboratory, United States

Session MA5b Advances in Co-Array Processing for DoA Estimation

Chair: *Geert Leus, TU Delft, Netherlands*

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| MA5b.1 | Hole-Tolerant Identical Division of
Consecutive Integer Set
<i>Chutong Shen, Yimin Zhang, Temple University, United
States; Shunqiao Sun, The University of Alabama, United
States</i> | 10:15 AM |
| MA5b.2 | Insights from Subspace Coding in Coarray
Processing
<i>Parthasarathi Khirwadkar, Piya Pal, University of
California San Diego, United States</i> | 10:40 AM |
| MA5b.3 | Sparse Array Design with Directional
Antenna Element Diversity
<i>Niko Lindvall, Mikko Heino, Robin Rajamäki, Mikko
Valkama, Tampere University, Finland; Visa Koivunen,
Aalto University, Finland</i> | 11:05 AM |
| MA5b.4 | Enhanced DoA Estimation Using Co-Array
Processing with Acoustic Vector Sensors
<i>Begum Bilir, Geert Leus, Delft University of Technology,
Netherlands</i> | 11:30 AM |

Session MA6b Emerging Technologies for Artificial Intelligence Systems

Co-Chairs: *Dayane Reis, University of South Florida, United States
and Zheyu Yan, Zhejiang University, China*

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| MA6b.1 | On the Viability of Content-Addressable
Memory for Retrieval-Augmented Generation
<i>Yuanjie Zhang, Yongtao Zhou, Zheyu Yan, Zhejiang
University, China</i> | 10:15 AM |
| MA6b.2 | Hardware–Software Co-Design of Near-Zero
Multiplication Escape for Sparse Neural Networks
<i>Parsa Khorrami, John Maurer, Dayane Reis, University of
South Florida, United States</i> | 10:40 AM |
| MA6b.3 | An In-Memory Design of Byte-Pair Encoding
Tokenization for Large Language Models
<i>Eros Allan Hacinas, Charibeth Cheng, De La Salle
University, Philippines; Gregory Kielian, Google, United
States; Ann Franchesca Laguna, De La Salle University,
Philippines</i> | 11:05 AM |
| MA6b.4 | Enable Acoustic Imaging System Designs
with Quantum Optimization
<i>Hanhan Wu, Yipei Liu, George Mason University, United
States; Zebo Yang, Florida Atlantic University, United
States; Youzuo Lin, University of North Carolina at
Chapel Hill, United States; Weiwen Jiang, Lei Yang,
George Mason University, United States</i> | 11:30 AM |

Session MA7b Modern approaches to experimental design

Chair: *Wendy Di, Argonne National Laboratory, United States*

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| MA7b.1 | Bayesian Optimal Experimental Design for Measurement Selection in Kalman Filtering
<i>Xun Huan, University of Michigan, United States</i> | 10:15 AM |
| MA7b.2 | Reinforcement learning for sequential experimental design via actor-accelerated policy dual averaging
<i>Caleb Ju, Georgia Institute of Technology, United States</i> | 10:40 AM |
| MA7b.3 | Exchange algorithm strategies for optimal experimental design
<i>Srinivas Eswar, Vishwas Rao, Argonne National Laboratory, United States; Arvind Saibaba, North Carolina State University, United States</i> | 11:05 AM |
| MA7b.4 | Enabling Scalable Experimental Design for Dynamical Systems via Fast Bayesian Inverse Solvers
<i>Yuanzhe Xi, Emory University, United States; Difeng Cai, Southern Methodist University, United States; Tianshi Xu, University of Kentucky, United States</i> | 11:30 AM |

Session MA8b1 Advances in Satcom and ISAC

Chair: *TBD*

10:15 AM–11:55 AM

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| MA8b1.1 | ASTRA: Asynchronous Age-Aware Satellite Random Access via Mean-Field Control
<i>Sayam Chakraborty, Indian Institute of Space Science and Technology, India; Aimin Li, Yigit Ince, Sajjad Baghaee, Elif Uysal, Middle East Technical University, Turkey</i> |
| MA8b1.2 | Fast Satellite Beam-Hopping Scheduling Using Submodularity
<i>William Blount, Gustavo de Veciana, Jeffrey Andrews, University of Texas at Austin, United States</i> |
| MA8b1.3 | Ground and Aerial Object Detection and Tracking in Terrestrial Radio Access Networks
<i>Karl Nieman, Ojas Kanhere, AT&T Labs, United States</i> |
| MA8b1.4 | SAT-ZAK: Zak-OTFS for LEO Direct-to-Cell Communications
<i>Faraz Barati, Ronny Hadani, Jeffrey Andrews, University of Texas at Austin, United States</i> |
| MA8b1.5 | LEO Satellite Direct-to-Cellular and Terrestrial Network Cell-Edge Interference in Downlink
<i>Alice Liu, Brian Evans, The University of Texas at Austin, United States</i> |
| MA8b1.6 | AI-assisted propagation-aware beam tracking with boundary resets for dynamic links
<i>Ibrahim Kilinc, University of California San Diego, United States; Mohamed Akrouf, University of Tennessee, United States; Robert Heath, University of California San Diego, United States</i> |

- MA8b1.7 Proactive Clutter Mapping for ISAC Systems
Muhammad Bilal Memon, University of California, Irvine, United States; Rang Liu, Friedrich-Alexander-University Erlangen-Nuremberg (FAU), Germany; Arnold Swindlehurst, University of California, Irvine, United States
- MA8b1.8 Hybrid Ambiguity Function Design for Enhanced 3D Radar Sensing via Multi-Criteria Optimization
Mody Sy, EURECOM, France
- MA8b1.9 On the Robustness of AFBM Sensing to Power Amplifier Nonlinearities
Eya Gourar, Institut Mines Télécom (IMT) Nord Europe, France; Henrique Lopes Senger, Gustavo Gonçalves, Federal University of Technology – Paraná, Brazil; Kuranage Roche Rayan Ranasinghe, Hyeon Seok Rou, Constructor University, School of Computer Science and Engineering, Germany; Bruno Sens Chang, Federal University of Technology - Paraná, Brazil; Yahia Medjahdi, Institut Mines Télécom (IMT) Nord Europe, France; Giuseppe Abreu, Constructor University, School of Computer Science and Engineering, Germany; Didier Le Ruyet, Conservatoire National des Arts et Metiers, France
- MA8b1.10 Sweep, Detect, Reconstruct: Environment Mapping with 5G-NR Monostatic ISAC
Vlad Andrei, Technical University of Munich, Germany; Alexander Seßler, Airbus SE, Germany; Xinyang Li, Ullrich Mönich, Technical University of Munich, Germany; Nunzio Sciammetta, Dominic Schupke, Airbus SE, Germany; Holger Boche, Technical University of Munich, Germany
- MA8b1.11 Towards Scalable Cooperative Spectrum Sensing for 6G Networks: A Theoretical Foundation
Hussam Ibraiwish, Univeristy of Texas at Austin, United States; Jeffrey Andrews, University of Texas at Austin, United States; Sriram Vishwanath, Georgia Institute of Technology, United States
- MA8b1.12 Joint Radar-Communications System in a Dispersive Channel with Slow Time Clutter
Nishita Luhana, Alex Chiriyath, Arindam Dutta, Saquib Siddiqui, Andrew Herschfelt, Daniel Bliss, Arizona State University, United States
- MA8b1.13 Goal-Oriented Real-Time Tracking With Hybrid Diversity–Multiplexing in MIMO Systems
Saeid Sadeghi Vilni, Risto Wichman, Aalto University, Finland

Session MA8b2 Communication and Coding Techniques

Chair: *TBD*

10:15 AM–11:55 AM

- MA8b2.1 SINR Estimation under Limited Feedback via Online Convex Optimization
Lorenzo Maggi, Boris Bonev, NVIDIA, France; Reinhard Wiesmayr, ETH Zurich, Switzerland; Sebastian Cammerer, Alexander Keller, NVIDIA, Germany
- MA8b2.2 Fixed-Budget Beam Refinement for Full-Duplex Massive MIMO Wireless Systems
Ethan Ge, Ian Roberts, University of California, Los Angeles, United States
- MA8b2.3 Chebyshev Polynomial-based Self-Interference Cancellation for Sub-Band / In-Band Full-Duplex Communication Systems
Manuel Feindert, Anna Werzi, Oliver Lang, Johannes Kepler University Linz, Austria; Christian Hofbauer, Silicon Austria Labs GmbH, Austria; Mario Huemer, Johannes Kepler University Linz, Austria
- MA8b2.4 Semi-Blind Channel Estimation in Cell-Free 6G Massive MIMO
Zilu Zhao, Dirk Slock, EURECOM, France
- MA8b2.5 Orthogonal Hyperbolic Frequency Modulation For Underwater Acoustic Communications
Letian Huang, Zhaohui Wang, University of Alberta, Canada
- MA8b2.6 Multi-Antenna Chirp Spread Spectrum NOMA: Joint Detection and Synchronization at Ultra-Low SNR
António Barros, Christoph Studer, ETH Zurich, Switzerland
- MA8b2.7 Neural Receiver for Robust Signal Recovery Under Nonlinear Distortion and Noise by Exploiting Latent Dependencies
Ebenezer Essel, Aldo Duarte, Shuangqing Wei, Louisiana State University, United States
- MA8b2.8 Study and Development of an Acoustic Communication System for Natural Gas Pipelines
Lidong Zhang, Jonas Quilala, Xi Chen, Zhaohui Wang, University of Alberta, Canada
- MA8b2.9 Radiated Tests of Hand and Body Blockage at sub-7 GHz Frequencies
Bernie Farin, Sonsay Noimanivone, Vasanthan Raghavan, Patrick Connor, Ozge Koymen, Junyi Li, Qualcomm, United States
- MA8b2.10 Learned Redundancy: Iterative Neural Decoding for Deletion Channels
Steven Tate, Randy Paffenroth, Worcester Polytechnic Institute, United States

- MA8b2.11 Two-Level Decorrelated Coded Modulation on the D4 Lattice
Leopold Bertholet, Chloe Makdad, Stephen Mackes, Daniel Chew, Matthew Robinson, Rampart Communications, United States
- MA8b2.12 A Diffusion-Based Hybrid Digital–Analog Scheme for Repurposing Channel Noise in Distortion–Perception Coding
Yuhan Wang, The Chinese University of Hong Kong, Hong Kong SAR of China; Suzhi Bi, Shenzhen University, China; Ying-Jun Angela Zhang, The Chinese University of Hong Kong, Hong Kong SAR of China
- MA8b2.13 Information Freshness With Multi-Channel Rateless Codes
Subhankar Banerjee, Sennur Ulukus, University of Maryland, College Park, United States
- MA8b2.14 Multilevel Coset Codes on Lattices
Leopold Bertholet, Chloe Makdad, Stephen Mackes, Daniel Chew, Matthew Robinson, Rampart Communications, United States
- MA8b2.15 Task-Oriented Semantic CSI Feedback for MIMO Precoding
Parisa Oftadeh, Zouhair Rezki, Mohammad Moltafet, Hamid Sadjadpour, University of California, Santa Cruz, United States

Session MP1b Physics-Consistent Models for Next-Generation Communication Systems

Chair: *Matteo Nerini, Imperial College London, United Kingdom*

- MP1b.1 Can Reciprocal RIS Perform as Non-Reciprocal RIS? 3:30 PM
Matteo Nerini, Imperial College London, United Kingdom; Juan Vidal Alegria, Lund University, Sweden; Bruno Clerckx, Imperial College London, United Kingdom
- MP1b.2 Physics-Consistent Modeling and Optimization of a Non-Reciprocal Dynamic Metasurface Antenna 3:55 PM
Shuai S. A. Yuan, Aalto University, Finland; Jean Tapie, IETR - Univ. Rennes & CNRS, France; Viktor Asadchy, Aalto University, Finland; Philipp del Hougne, Aalto University & IETR - Univ. Rennes & CNRS, Finland
- MP1b.3 Physics-Based Multiport Modeling of Nonlinear Stacked Intelligent Metasurfaces with Passive and Active Circuit Tuning 4:20 PM
Andrea Abrardo, Alberto Toccafondi, University of Siena and CNIT, Italy
- MP1b.4 A Physically Consistent Method for Determining Optimal Antenna Spacing 4:45 PM
Georg Schwan, ETH Zurich, Switzerland; Raphael Rolny, armasuisse, Switzerland; Alexander Stutz-Tirri, ETH Zurich, Switzerland

Session MP2b XL MIMO Systems

Chair: *George Alexandropoulos, University of Athens, Greece*

- MP2b.1 Enhanced Channel Estimation for LoS 3:30 PM
XL-MIMO via Wavenumber-Domain Windowing
Nirosh Marthinu, Prathapasinghe Dharmawansa, Italo Atzeni, University of Oulu, Finland
- MP2b.2 Revisiting the Far-Field Dictionary for 3:55 PM
Non-Uniform MIMO Arrays
Luca Antonelli, University of Pisa, Italy; Amna Irshad, Vitaly Petrov, KTH Royal Institute of Technology, Sweden; Luca Sanguinetti, University of Pisa, Italy; Emil Björnson, KTH Royal Institute of Technology, Sweden
- MP2b.3 Optimal deployment strategies for 4:20 PM
repeater-assisted ISAC
Henrik Åkesson, Diana Pamela Moya Osorio, Erik G. Larsson, Linköpings universitet, Sweden
- MP2b.4 Fronthaul-constrained low-rank RX combiner 4:45 PM
design for uplink XL-MIMO
Jaebum Park, Robert Heath, University of California, San Diego, United States

Session MP3b Topological Signal Processing and Learning

Chair: *Claudio Battiloro, Harvard University, United States*

- MP3b.1 Multi-Agent System Identification with 3:30 PM
Nonlinear Sheaf Diffusion
Nivar Anwer, Hans Riess, Matthew Hale, Georgia Institute of Technology, United States
- MP3b.2 Transferable Graph Transformers for Shortest 3:55 PM
Path Estimation on Terrain Manifolds
Javier Porras Valenzuela, University of Pennsylvania, United States; Zhiyang Wang, University of California San Diego, United States; Teresa Xiaotao Shang, University of Pennsylvania, United States; Yusu Wang, University of California San Diego, United States; Alejandro Ribeiro, University of Pennsylvania, United States
- MP3b.3 Sheaf Dictionary Learning for Heterogeneous 4:20 PM
Network Signals
Leonardo Di Nino, Lorenzo Marinucci, Gabriele D'Acunto, Sergio Barbarossa, Paolo Di Lorenzo, Sapienza, Università di Roma, Italy
- MP3b.4 Hilbert Sheaf Scattering Transform 4:45 PM
Kartik Tandon, University of Pennsylvania, United States; Claudio Battiloro, Harvard University, United States

Session MP4b Estimation and Inference

Chair: *Proloy Das, TCG CREST*

- MP4b.1 RAIN-FIT: Learning of Fitting Surfaces and 3:30 PM
Noise Distribution from Large Data Sets
Omar M. Sleem, Kyocera International, Inc., United States; Sahand Kiani, Constantino M. Lagoa, Pennsylvania State University, United States

- MP4b.2 Sample Abundance for Signal Processing: A Brief Introduction 3:55 PM
Arian Eamaz, Farhang Yeganegi, Mojtaba Soltanalian, University of Illinois Chicago, United States
- MP4b.3 Beyond Point Estimates: Likelihood-Based Full-Posterior Wireless Localization 4:20 PM
Haozhe Lei, Hao Guo, New York University, United States; Tommy Svensson, Chalmers University of Technology, Sweden; Sundeeep Rangan, New York University, United States
- MP4b.4 Analysis of Accelerated Generalized Approximate Message Passing 4:45 PM
Zilu Zhao, Fangqing Xiao, Jichao Chen, Dirk Slock, EURECOM, France

Session MP5b DOA Estimation

Chair: *TBD*

- MP5b.1 Feasible Directions of Arrival Under Bounded Array Manifold Errors 3:30 PM
Helmuth Naumer, MIT Lincoln Laboratory, United States
- MP5b.2 On uniqueness of sum-of-sine representations 3:55 PM
P. P. Vaidyanathan, California Institute of Technology, United States
- MP5b.3 Single-Snapshot ESPRIT via Algebraic Diversity 4:20 PM
Mitchell Thornton, Southern Methodist University, United States
- MP5b.4 Degrees-of-Freedom and the Rank of the Covariance Manifold 4:45 PM
Benjamin Friedlander, University of California, Santa Cruz, United States

Session MP6b AI and Signal Processing Education

Chair: *Marios Pattichis, University of New Mexico, United States*

- MP6b.1 Integrating Secondary School Mathematics with Artificial Intelligence and Machine Learning through Python Programming and Digital Image Processing 3:30 PM
Marios Pattichis, The University of New Mexico, United States; Andreas Panayides, CYENS Center of Excellence, Nicosia, Cyprus, United States; Hakeoung Hannah Lee, The University of Virginia, United States; Sylvia Celedón-Pattichis, The University of Texas at Austin, United States
- MP6b.2 Development and Assessment of KEEN Cards for DSP and Machine Learning Projects 3:55 PM
Mahesh Banavar, Fatemeh Ghasemi Balouei, Clarkson University, United States
- MP6b.3 Integrated REU-RET Workforce Training Model in Signal Processing, AI and Quantum Computing 4:20 PM
Jean Larson, Tanay Patel, Glen Uehara, Niraj Babar, Nandika Goyal, Deep Pujara, Andreas Spanias, Arizona State University, United States

- MP6b.4 How Much Context Is Useful for Classroom Discourse Modeling? A Study of Raw and Extractive Context 4:45 PM
chongyu he, Peter Youngs, Scott Acton, University of Virginia, United States

Session MP7b Moving Off the Grid: Non-Gridded Learning Representations for Efficient Image and Video

Chair: *Guha Balakrishnan, Rice University, United States*

- MP7b.1 You Cannot Escape the Grid: Feature Grid Encodings for Implicit Neural Representations from Hyper-Networks 3:30 PM
Matthew Gwilliam, Mohamed bin Zayed University of Artificial Intelligence, United States
- MP7b.2 Revealing Deepfakes using Implicit Neural Representations 3:55 PM
Dhananjaya Jayasundara, Kartik Narayan, VISHAL PATEL VISHAL PATEL, Johns Hopkins University, United States
- MP7b.3 A study on INRs for long-video encoding and compression 4:20 PM
- MP7b.4 Deep Implicit Neural Representation Priors 4:45 PM
Vishwanath Saragadam, University of California Riverside, United States

Session MP8b1 Biomedical Signal Processing: Methods and Applications

Chair: *Jon Tamir, University of Texas at Austin, United States*

3:30 PM–5:10 PM

- MP8b1.1 Spatiotemporal Neural Similarity and Divergence During Auditory and Visual Temporal Bisection
Logan Pasternak, Siwei Mai, Weinan Wang, Laleh Najafizadeh, Rutgers University, United States
- MP8b1.2 A Regression Discontinuity Design Approach to Adaptive Optogenetic Stimulation Pattern Selection
Seyedeh Pardis Hajiseyedrazi, Behtash Babadi, University of Maryland, United States
- MP8b1.3 When Models Disagree: Class-Dependent Complementarity for Safe Ensemble in Coronary Calcium Risk Stratification
Ashajyothi Bathineni, University Of Southern Denmark, Denmark; Marie Zøga Diederichsen, Preman Kumarathurai, Axel Diederichsen, Odense University Hospital, Denmark; Vinay Chakravarthi Gogineni, Victoria Blanes-Vidal, University Of Southern Denmark, Denmark

- MP8b1.4 A Traveling Wave Model for In-Working Memory Auditory Scene Analysis via the Temporal Coherence Principle
Jarin Tasnim, Behtash Babadi, University of Maryland, United States
- MP8b1.5 Multitask Deep Gaussian Process Survival Analysis with Shared and Group-Specific Latent Structure
Nayely Vélez-Cruz, Bryan C. Daniels, Kenneth Buetow, Manfred D. Laubichler, Arizona State University, United States
- MP8b1.6 VAMP-Diff: VampPrior Latent Diffusion for Photoplethysmography Modeling
Fatemeh ghasemi balouei, Clarkson University, United States; Nathan Willemsen, Worcester Polytechnic Institute, United States; Mahesh Banavar, Clarkson University, United States; Bahman Moraffah, Worcester Polytechnic Institute, United States
- MP8b1.7 Assessing and Optimizing the Regional Accuracy of Scalp EEG Electrical Source Imaging for CCEP Applications
Aadhish Talekar, Tianjun Wang, Roy Phillips, Behnaam Aazhang, Rice University, United States
- MP8b1.8 A Boolean Representation Framework for Identifying Spatiotemporal Differences in Sensor-Space EEG Recordings Using ADASSO
Siwei Mai, Weinan Wang, Laleh Najafizadeh, Rutgers University, United States
- MP8b1.9 Multi-Source Domain Selection and Inductive Transfer Learning for EEG-Based Emotion Recognition
Mu Du, Georgia Institute of Technology, United States; Koushik Roy, Qi Cheng, Oklahoma State University, United States
- MP8b1.10 Higuchi Fractal Dimension in EEG: Why Parameter Selection Must Account for Sampling Frequency
Si Long Jenny Tou, Tom Chau, University of Toronto, Canada
- MP8b1.11 Detection of Asian Hornets by Cepstrum Analysis of Micro-Doppler Radar Images
Herbert Aumann, University of Maine, United States; Maxime Gourlay, Lorenzo Pons, Broodminder Europe, France
- MP8b1.12 Artifact Reduction in Cortical Electrostimulation: A Phase Manipulation Approach for ECoG Signal Integrity
Jizhou Wang, Zoran Nenadic, University of California, Irvine, United States

Session MP8b2 Specialized Hardware Architectures and Computer Arithmetic

Chair: *François Leduc-Primeau, Polytechnique Montreal*

3:30 PM–5:10 PM

- MP8b2.1 Exploring Reliable Voter Designs Based on Comparator Networks
Yuchen He, Behrooz Parhami, University of California, Santa Barbara, United States
- MP8b2.2 Direction-Preserving Number Representations
Bardia Zadeh, George Constantinides, Imperial College London, United Kingdom
- MP8b2.3 Optimizing Partition Schemes for Table-Based Elementary Function Approximation
Jacob Pease, James Stine, Oklahoma State University, United States
- MP8b2.4 New Number Formats for DSP: A Case Study on FFT IP Cores in Optical OFDM Transceivers
Lukas Krupp, Gustavo Magalhães Gomes De Souza, RPTU University Kaiserslautern-Landau, Germany; Sani Nassif, Radyalis LLC, Germany; Norbert Wehn, RPTU University Kaiserslautern-Landau, Germany
- MP8b2.5 ALBS: Auto-Learnable Binary Shortcuts, Fully Binarized Skip Connections for BNN
Haci-Yusuf Gundogan, William Guicquero, Henri-Pierre Charles, CEA, France
- MP8b2.6 Wi-Fi-Based Radio Frequency Fingerprint Identification (RFFI) Models for Edge Devices
Faith Mulugeta, Joseph Cavallaro, Rice University, United States
- MP8b2.7 On Parallelism in Floating-Point FPGA Implementations of Symmetric Matrix Inversion
Olle Hansson, Simon Bjurek, Oscar Gustafsson, Linköping University, Sweden
- MP8b2.8 Practical Hardware Operation Analysis and Crossover Points for Fast Convolution Algorithms
Weiwei Wang, University of South Alabama, United States; Victor Debrunner, Linda Debrunner, Florida State University, United States
- MP8b2.9 Deterministic Synchronization for Distributed Signal Processing: A Node-Count-Independent Skew Bound via Shared Bus and MMCM Phase Correction
Christina Carreon, Christoph Lauter, The University of Texas at El Paso, United States; Martin Kumm, Open Radio Systems, Germany
- MP8b2.10 High-Throughput Energy-Efficient JPEG Decoding on a Fine-Grain Many-Core Processor
Yechengnuo Zhang, Basheer Ammar, Bevan Baas, University of California, Davis, United States
- MP8b2.11 Self-checking RISC-V Vector Certification Suite
Yun-Jie Tai, James Kaden Cassidy, David Harris, Harvey Mudd College, United States

- MP8b2.12 RemoteRF: An Open-Source, Remotely Accessible Software-Defined Radio Platform for Wireless Research and Education
Ethan Ge, Ian Roberts, University of California, Los Angeles, United States
- MP8b2.13 mmToolkit: A 60 GHz Phased Array Channel Sounder using Off-the-Shelf Hardware
Kanishka Roy, Ian Roberts, University of California, Los Angeles, United States
- MP8b2.14 Towards Higher-Order Ising Machines for Short-Blocklength LDPC Decoding
Abhimanyu Kumar, Ulya R. Karpuzcu, Chris H. Kim, Sachin S. Sapatnekar, University of Minnesota, United States
- MP8b2.15 libscvvec: a Vectorized IEEE754 Emulation Library for the AI Decade
Ray Castaneda, Briana Cervantes, Samin Islam, Christoph Lauter, Shirley Moore, Kristalys Ruiz-Rohena, Sariyah Russell, Epifanio Sarinana, University of Texas at El Paso, United States

Session TA1a Physical-Layer Security and Covert Communications

Chair: *TBD*

- TA1a.1 Physical Layer Security in Chirp Permuted AFBM 8:15 AM
Pedro Schuves Marodin, Henrique Lopes Senger, Gustavo Pacola Gonçalves, Federal University of Technology - Paraná, Brazil; Hyeon Seok Rou, School of Computer Science and Engineering, Constructor University, Germany; Bruno Sens Chang, Federal University of Technology - Paraná, Brazil; Giuseppe Thadeu Freitas de Abreu, School of Computer Science and Engineering, Constructor University, Germany; Didier Le Ruyet, CEDRIC/Conservatoire National des Arts et Métiers, France
- TA1a.2 Transmitter Distortion Based RF Fingerprinting Exploiting Non-Circularity of Complex IQ-data 8:40 AM
Katri Haapalinna, Aalto University, Finland; Roman Klus, Mikko Valkama, Tampere University, Finland; Visa Koivunen, Aalto University, Finland
- TA1a.3 Analysis of Covert Multi-Hop Multi-Modal Communications Against Colluding Wardens 9:05 AM
Justin Kong, Terrence Moore, Fikadu Dagefu, U.S. Army Combat Capabilities Development Command (DEVCOM) Army Research Laboratory, United States
- TA1a.4 Covert Low-Latency Wireless Communications: Message Segmentation Over Heterogeneous Transmission Modalities 9:30 AM
Swapnil Saha, WINLAB, Rutgers University, United States; Fikadu T. Dagefu, Justin H. Kong, Brian Kim, Jihun Choi, DEVCOM Army Research Laboratory, United States; Predrag Spasojević, WINLAB, Rutgers University, United States

Session TA2a New Paradigms for Ultra Wide-Band and Extra-Large Antenna Arrays

Co-Chairs: *Danijela Cabric, University of California, Los Angeles, United States and Tom Marzetta, University of Maryland, United States*

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| TA2a.1 | Wave Equation Migration for Passive Detection and Localization of Near- and Far-Field Sources
<i>Tyler Ikehara, Thomas Marzetta, University of Maryland, United States</i> | 8:15 AM |
| TA2a.2 | Joint Near-Field and Far-Field Localization in ELAA-UWB Systems via Radon Transform
<i>Tianxiang Xing, Shwetha Kunnam, Danijela Cabric, University of California, Los Angeles, United States</i> | 8:40 AM |
| TA2a.3 | Joint Antenna Selection and Codebook Design for Movable Antenna Arrays
<i>Amna Irshad, KTH Royal Institute of Technology, Sweden; Luca Antonelli, University of Pisa, Italy; Vitaly Petrov, KTH Royal Institute of Technology, Sweden; Luca Sanguinetti, University of Pisa, Italy; Emil Björnson, KTH Royal Institute of Technology, Sweden</i> | 9:05 AM |
| TA2a.4 | Impact of Joint Reciprocity Calibration Errors on Backscatter Communication in Distributed MIMO
<i>Ahmet Kaplan, Diana P. M. Osorio, Erik G. Larsson, Linköping University, Sweden</i> | 9:30 AM |

Session TA3a Networked Neuroscience

Chair: *Selin Aviyente, Michigan State University, United States*

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| TA3a.1 | Transferability of spatio-temporal covariance neural networks for multiscale fMRI analysis
<i>Saurabh Sihag, SUNY at Albany, United States; Andrea Cavallo, Delft University of Technology, Netherlands; Yucheng Zhu, University of Maryland, United States; Elvin Isufi, Delft University of Technology, Netherlands; Gonzalo Mateos, University of Rochester, United States; Alejandro Ribeiro, University of Pennsylvania, United States</i> | 8:15 AM |
| TA3a.2 | Contributions of lateral versus long-range structural connectivity in explaining brain activity: a graph-signal-processing approach
<i>Maria Giulia Preti, Dimitri Van De Ville, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland</i> | 8:40 AM |
| TA3a.3 | Causality Driven Disentanglement Learning for Dynamic Brain Networks
<i>Sema Athamnah, Michigan State University, United States; Saba Nasiri, Dorina Thanou, EPFL, Switzerland; Selin Aviyente, Michigan State University, United States</i> | 9:05 AM |

Session TA4a Advances in Learning-based Image Processing

Chair: *Guan-Ming Su, Dolby Labs, United States*

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| TA4a.1 | SAR-PACT: Tokenization Energy-Aware Complexity Allocation for Practical Learned SAR Image Compression
<i>Zach Button, Paras Maharjan, Abdul Badshah, Zhu Li, University of Missouri-Kansas City, United States</i> | 8:15 AM |
| TA4a.2 | Self-Supervised Seizure Detection in Stereo-EEG
<i>Amirhossein Khalilian-Gourtani, Shira Mack, Elise Van Kwawegen, Peter Rozman, Andrew J. Michalak, Adeen Flinker, New York University, United States</i> | 8:40 AM |
| TA4a.3 | Individualized deepfake detection exploiting the idempotency property of neural networks
<i>Mushfiqur Rahman, Runze Liu, Chau-Wai Wong, Huaiyu Dai, NC State University, United States</i> | 9:05 AM |
| TA4a.4 | Restore-in-Latent: Reference-Guided Diffusion with Text/Face-Aware LoRA for Arbitrary Archival Video Upscaling
<i>Sri Harsha Musunuri, Aupendu Kar, Guan-Ming Su, Dolby Laboratories, Inc., United States</i> | 9:30 AM |

Session TA5a Tensor-Based Array Signal Processing

Co-Chairs: *Martin Haardt, TU Ilmenau, Germany and Andre Almeda, Federal University of Cear , Brazil*

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| TA5a.1 | Quantized Tensor Recovery for MIMO-OFDM Channel Estimation
<i>Chengyao Lyu, Xiao Fu, Oregon State University, United States</i> | 8:15 AM |
| TA5a.2 | Tensor Completion for Satellite-RFI-Affected Visibilities in Radio Interferometric Imaging
<i>Shoaib Ahmed, Lin Chen, Hongbin Li, Stevens Institute of Technology, United States</i> | 8:40 AM |
| TA5a.3 | Block-Term Tensor Decomposition in Wideband Array Processing
<i>Eleftherios Kofidis, University of Piraeus, Greece</i> | 9:05 AM |
| TA5a.4 | Position-Aided Beam Selection for Near-Field XL-MIMO Using Probabilistic Modeling
<i>Joseph Kibugi Chege, Liana Khamidullina, Ilmenau University of Technology, Germany; Arie Yeredor, Tel Aviv University, Israel; Martin Haardt, Ilmenau University of Technology, Israel</i> | 9:30 AM |

Session TA6a Multiscale Analysis of Neural Signals

Chair: *Miriam Hernandez Morales, University of California, Berkeley, United States*

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| TA6a.1 | High-Speed Miniaturized Two-Photon Microscopy in Freely-Moving Mice
<i>Ben Mattison, Zixiao Zhang, Shing-Jiuan Liu, University of California, Davis, United States; Jessie Muir, Princeton University, United States; Noah Spurr, Yuheng Wan, University of California, Davis, United States; Christina Kim, Princeton University, United States; Weijian Yang, University of California, Davis, United States</i> | 8:15 AM |
| TA6a.2 | Astrocyte-Driven Modulation of Cortical Dynamics: A Multiscale Modeling Approach
<i>Cesar Ceballos, Casey Spencer, Rodrigo Pena, Florida Atlantic University, United States</i> | 8:40 AM |
| TA6a.3 | Inferring Intracellular Activity from Extracellular Data
<i>Zeinab Jahed, Keivan Rahmani, Dhivya Meganathan, Diego Alvarez, Brenda Bloodgood, University of California San Diego, United States</i> | 9:05 AM |
| TA6a.4 | Spiker: An Adaptive Kinetic Framework for Automated Event Detection and Signal Segregation in Non-Stationary Noise
<i>Juan Morales-Zúñiga, Miriam Hernández-Morales, Yuxiang Li, Chunlei Liu, University of California, Berkeley, United States</i> | 9:30 AM |

Session TA7a AI for Medical Imaging: From Spatial and Acoustic Sensing to Clinical Insight

Co-Chairs: *Vivek Boominathan, Rice University, United States and Venkat Keshav Chivukula, University of Texas Health Science Center Houston, United States*

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| TA7a.1 | From Echo to Edge: Distilling Single-Lead ECG Models for LVEF Estimation and Embedded Deployment
<i>Antonio Mendoza, Joseph R. Cavallaro, Rice University, United States</i> | 8:15 AM |
| TA7a.2 | KNOWLEDGE-GUIDED DOMAIN GENERALIZATION VIA NEURO-SYMBOLIC FUSION
<i>Midhat Urooj, Ayan Banerjee, Kuntal Thakur, Sandeep Gupta, Arizona State University, United States</i> | 8:40 AM |
| TA7a.3 | Uncertainty-Aware MRI Reconstruction using Consistency Models
<i>Talha Hamza, Merve Gulle, Mehmet Akcakaya, University of Minnesota, United States</i> | 9:05 AM |

- TA7a.4 Intelligent integration of echocardiographic 9:30 AM
and hemodynamic sensing with virtual patients
towards cardiac digital twins
*Ruth White, University of Texas Health Science
Center Houston, United States; Abhirami Kathirvel,
Latthika Selvamurugan, Yining Hong, Zhihe Lan, Vivek
Boominathan, Jose Moreto, Rice University, United States;
Venkat Keshav Chivukula, University of Texas Health
Science Center Houston, United States*

Session TA8a1 Statistical Estimation, Detection, and Inference

Chair: *TBD*

8:15 AM–9:55 AM

- TA8a1.1 Single-Snapshot Spectral Estimation via Algebraic
Diversity
*Mitchell Thornton, Southern Methodist University, United
States*
- TA8a1.2 Consensus-based Recursive Multi-Output Gaussian
Process
*Yogesh Prasanna Kumar Rao, Tamas Keviczky, Raj Thilak
Rajan, Delft university of technology, Netherlands*
- TA8a1.3 MaxModShift: Model Privacy via Designed Shifts
*Nomaan Kherani, Urbashi Mitra, University of Southern
California, United States*
- TA8a1.4 Approximate Multichannel Sphericity Testing
Procedures
*Brayden Look, Louis Scharf, Haonan Wang, Colorado
State University, United States*
- TA8a1.5 Fast Time-Domain MLE for Period Estimation of Pulse
Trains
*Sebastian Schertler, Daniel Guger, Johannes Kepler
University Linz, Austria; Stefan Schuster, Stefan
Scheiblhofer, voestalpine Stahl GmbH, Austria; Mario
Huemer, Johannes Kepler University Linz, Austria;
Alexander Haberl, Johann Reisinger, voestalpine Stahl
GmbH, Austria; Oliver Lang, Johannes Kepler University
Linz, Austria*
- TA8a1.6 AR estimation from noisy observation via EM algorithm
for singular state space model
Proloy Das, TCG CREST, India
- TA8a1.7 Spectrally Compatible Radar Waveform Design in
Waveform Dependent Clutter Environments.
*Syed Ali Haider Shirazi, Taejoon Kim, Arizona State
University, United States; David Love, Purdue University,
United States; Sergiy Vorobyov, Aalto University, Finland*
- TA8a1.8 Outlier-Robust Regression via Semi-Unbalanced
Residual Optimal Transport
*Tadas Paskevicius, Lund University, Sweden; Isaac Skog,
KTH Royal Institute of Technology, Sweden; Andreas
Jakobsson, Lund University, Sweden*

- TA8a1.9 Levenberg–Marquardt Digital Predistortion Under Noisy Measurements: Beyond Indirect Learning and Direct Reversion
Luis Godoy, Andrés Villamil, Emil Matúš, Gerhard Fettweis, Technische Universität Dresden, Germany
- TA8a1.10 When Does Adaptivity Help in Quantum State Tomography? A Structured Separation under Product Pauli Measurements
Alireza Goldar, Colorado School of Mines, United States; Zhen Qin, University of Michigan, United States; Zhihui Zhu, Ohio State University, United States; Zhe-Xuan Gong, Michael Wakin, Colorado School of Mines, United States
- TA8a1.11 Asymmetric Information-Based Stock Trading Statistical Modeling and Data Analysis: An Information Transmission Approach
Yuan Zhao, New Jersey Institute of Technology, United States; Atah Abdi, Goldman Sachs, United States; Ali Abdi, New Jersey Institute of Technology, United States
- TA8a1.12 Regularization Selection For High-Dimensional Multi-Attribute Graph Learning
Worlasi Dzam, Jitendra Tugnait, Auburn University, United States
- TA8a1.13 Gaussian Process Nonparametric Learning of Sensor Systematic Errors
Yongho Seo, Antonia Papandreou-Suppappola, Arizona State University, United States
- TA8a1.14 Maximum Likelihood Estimation and Cramér-Rao Lower Bounds for Complex-Valued Bilinear Models
Bernhard Plaimer, Matthias Wagner, Oliver Lang, Mario Huemer, Johannes Kepler University, Austria
- TA8a1.15 Online Phase Estimation of Neural Oscillations Using a Bistable-Coherence State-Space Model
Amer Ziouziou, Shahabedin Tavasoli, Ali Yousefi, University of Houston, United States

Session TA8a2 Optimization, Sparsity, and High-Dimensional Learning

Chair: *Dror Baron, North Carolina State University*

8:15 AM–9:55 AM

- TA8a2.1 Adaptive Beamforming using One-Bit Data Samples for Covariance Estimation
Aaron Kogan, Swaroop Appadwedula, Massachusetts Institute of Technology (MIT) Lincoln Laboratory, United States
- TA8a2.2 Breaking the Asymmetry Barrier in Analog In-Memory Training: A Signal Processing Solution
Quan Xiao, Jindan Li, Zhaoxian Wu, Cornell University, United States; Tayfun Gokmen, IBM Research, United States; Tianyi Chen, Cornell University, United States

- TA8a2.3 Adaptive Conflict-Avoidant Stochastic MGDA by Exploiting the Update Direction Continuity
Chentong Huang, Lisha Chen, University of Rochester, United States
- TA8a2.4 Robust Discriminative-Generative Latent Dynamical Filtering for Time-Series State Decoding
Shahabedin Tavasoli, Pedram Rajaei, Amer Ziouziou, Ali Yousefi, University of Houston, United States
- TA8a2.5 Adaptive Ensemble Learning in the Signed Cumulative Distribution Transform Domain for Robust Hyperspectral Anomaly Detection
Abu Hasnat Mohammad Rubaiyat, Amentum, United States; Jordan Vincent, Tekla Research, United States; Colin Olson, U.S. Naval Research Laboratory, United States
- TA8a2.6 Sparse Recovery Above the Phase Transition: A Learned Operator-Aware Approach
Di An, Dylan Poppert, Taewoon Choi, Trac Tran, Johns Hopkins University, United States
- TA8a2.7 Geometry-Aware Randomized Kaczmarz: Fairer Solutions on Non-Uniform Geometries
Alejandra Castillo, Pomona College, United States; Jamie Haddock, Harvey Mudd College, United States; Iryna Hartsock, H. Lee Moffitt Cancer Center & Research Institute, United States; Lara Kassab, California State University, Fullerton, United States; Deanna Needell, University of California, Los Angeles, United States
- TA8a2.8 Complex Logistic Regression
Pavel Filippov, Majdoddin Esfandiari, Esa Ollila, Aalto University, Finland; Elias Raninen, Nokia Bell Labs, Finland
- TA8a2.9 Streaming Block Kaczmarz for Structured Linear Systems
Sophia Palomares, Deanna Needell, University of California, Los Angeles, United States
- TA8a2.10 Kernel Ensemble for Disagreement-Aware Acquisition in Bayesian Optimization and Active Learning
Heng Zhang, Haotian Xiang, Qin Lu, University of Georgia, United States
- TA8a2.11 Large System Analysis of Hyperparameter Optimization in Sparse Bayesian Learning
Fangqing Xiao, Yunnan University, China; Jichao Chen, Zilu Zhao, Dirk Slock, EURECOM, France
- TA8a2.12 Binarization in low-rank approximation and non-negative matrix factorization
Alexander Sietsema, Deanna Needell, University of California, Los Angeles, United States; Yaniv Plan, University of British Columbia, Canada
- TA8a2.13 Compressive Hyperspectral Imaging with Plasmonic Filters and Approximate Message Passing
Kausthubh Chandramouli, NC State University, United States; Edward Sachet, Christopher Shelton, Third Floor Materials, United States; Bojko Bakalov, Dror Baron, NC State University, United States

- TA8a2.14 Tunable Linear Generative Priors for Inverse Problems
Zhaoming Li, Paul Hand, Northeastern University, United States
- TA8a2.15 Mixture-Prior Variational Auto-encoders for Outlier-Aware Generative Learning
Alireza Sadeghi, Abraham Jaeger-Mountain, University of Minnesota, United States; Alba Pages Zamora, Polytechnic University of Catalonia, Spain; Georgios B. Giannakis, University of Minnesota, United States

Session TA1b Advanced resource allocation, positioning and swarm intelligence in 6G NTN

Chair: *Cicek Cavdar, KTH, Sweden*

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| TA1b.1 | Towards GNSS-free Random Access Procedure in 6G NTN
<i>Carla Amatetti, Bruno De Filippo, Alessandro Vanelli-Coralli, University of Bologna, Italy</i> | 10:15 AM |
| TA1b.2 | Satellite Swarm Geometry Design for Enhanced DOA Resolution
<i>Joan Muñoz Sanchis, Miguel Ángel Vázquez Oliver, Ana Isabel Pérez Neira, Centre Tecnològic de Telecomunicacions de Catalunya, Spain</i> | 10:40 AM |
| TA1b.3 | Joint SAGIN Resource Allocation and MAPF for Digital Twin Supported Remote Robotic Applications
<i>R. Irem Bor-Yaliniz, École de technologie supérieure (ÉTS), Canada; Arman Dogru, University of Ottawa, Canada; Georges Kaddoum, École de technologie supérieure (ÉTS), Canada</i> | 11:05 AM |
| TA1b.4 | Beam-Hopping Optimization in LEO Satellite Networks Under Common Signaling Constraints
<i>Siva Satya Sri Ganesh Seeram, KTH Royal Institute of Technology, Sweden; Luca Feltrin, Siddharth Sourabh Sahu, Chao Zhang, Ericsson AB, Sweden; Zhenyu Li, KTH Royal Institute of Technology, Sweden; Mustafa Ozger, Aalborg University, Denmark; Cicek Cavdar, KTH Royal Institute of Technology, Sweden</i> | 11:30 AM |

Session TA2b AI-driven and Digital Twin-enabled MIMO Communications

Chair: *Tingun Chen, Duke University, United States*

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| TA2b.1 | Wireless Digital Twin Calibration: A Small-Scale Real-World Prototype
<i>Preston Garrett, Kengmin Lin, Ahmed Alkhateeb, Arizona State University, United States</i> | 10:15 AM |
| TA2b.2 | AI-Based MIMO Positioning via Beam-Delay Profiles and Digital Twins
<i>Canan Cebeci, Oveys Delafrooz, University of California, Santa Barbara, United States; Yiming Li, Tingjun Chen, Duke University, United States; Upamanyu Madhow, University of California, Santa Barbara, United States</i> | 10:40 AM |

- TA2b.3 Gaussian-Splatting-Based PHY Digital Twin 11:05 AM
for Full-Stack 5G Performance Prediction
Raj Bakhunchhe, Andrew Nguyen, Ish Kumar Jain, Rensselaer Polytechnic Institute (RPI), United States; Bhavya Sai Nukapotula, Narendran Srinivasan, Samin Moosavi, Srinivas Shakkottai, Universidad de Texas A&M (TAMU), United States; Sara Garcia Sanchez, Arun Paidimarri, Alberto Valdes-Garcia, IBM Research, United States
- TA2b.4 Over-the-Air Target Classification with 11:30 AM
Distributed XL MIMO Systems
Kyriakos Stylianopoulos, George Alexandropoulos, National and Kapodistrian University of Athens, Greece

Session TA3b Bayesian Learning and Inference on Graphs

Co-Chairs: *Daniel Waxman, Basis Research Institute, United States; Kurt Butler, University of Edinburgh, United Kingdom; Victor Elvira, University of Edinburgh, United Kingdom and Petar M. Djurić, Stony Brook University, United States*

- TA3b.1 Bayesian Learning of Graph-Based 10:15 AM
Interaction Potentials with Applications to Studying
Animal Behavior
Daniel Waxman, Matthew Levine, Basis Research Institute, United States; Kurt Butler, University of Edinburgh, United Kingdom; Petar Djuric, Stony Brook University, United States; Emily Mackevicius, Dmitry Batenkov, Basis Research Institute, United States
- TA3b.2 BAYESIAN 2D-3D POINT CLOUD 10:40 AM
REGISTRATION USING GRAPH SIMILARITY
MEASURES
Younes Boutiyarzist, ISAE SUPAERO/TeSA/Collins Aerospace, France; Jean-Yves Tournet, IRIT-ENSEEIH/TeSA, France; François Vincent, ISAE SUPAERO, France; Philippe Salmon, Collins Aerospace, France
- TA3b.3 Bayesian Koopman-inspired Time-series 11:05 AM
Forecasting with Graph-encoded Exogenous
Information
Theodore Glavas, McGill University, Canada; Sebastian Pütz, Karlsruhe Institute of Technology, Canada; Parsa Jafarian, McGill University, Canada; Boris Oreshkin, Amazon, Canada; Mark Coates, McGill University, Canada
- TA3b.4 Graph Transfer Learning via Shared Latent 11:30 AM
Geometry: An EM Perspective
Tong Wu, University of Central Florida, United States; Hang Liu, University of Macau, Macao SAR of China; Anna Scaglione, Andrew Campbell, Cornell University, United States

Session TA4b Information, Learning, and Genomics

Co-Chairs: *Marco Mondelli, Institute of Science and Technology Austria (ISTA), Austria and Matthew Robinson, Institute of Science and Technology Austria (ISTA), Austria*

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| TA4b.1 | Motif-preserving graph diffusion for small molecule drug design
<i>Peizhi Niu, Shane Wang, Olgica Milenkovic, University of Illinois, Urbana-Champaign, United States</i> | 10:15 AM |
| TA4b.2 | SiGhS: A Statistical Method to Determine Significance of Biological Graph Differences
<i>Whitney Sloneker, Brown University, United States; Lorin Crawford, Microsoft, Brown University, United States; Ritambhara Singh, Brown University, United States</i> | 10:40 AM |
| TA4b.3 | One-hot encoding captures non-linear genetic effects for plasma protein abundance
<i>Kevin Kogler, Jakub Bajzik, Matthew Robinson, Marco Mondelli, Institute of Science and Technology Austria (ISTA), Austria</i> | 11:05 AM |
| TA4b.4 | Learning Population History from Genomic Data
<i>Aditya Ravi, Joseph Liu, James O'Dwyer, Ilan Shomorony, University of Illinois Urbana-Champaign, United States</i> | 11:30 AM |

Session TA5b Resilience-by-Design in Wireless and Networked Systems

Co-Chairs: *Friedemann Laue, Friedrich-Alexander-Universität, Germany and Norman Franchi, Friedrich-Alexander-Universität, Germany*

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| TA5b.1 | Accelerated Recovery with RIS: Designing Wireless Resilience in Mission-Critical Environments
<i>Kevin Weinberger, Robert-Jeron Reifert, Aydin Sezgin, Ruhr University Bochum, Germany; Mehdi Bennis, University of Oulu, Germany</i> | 10:15 AM |
| TA5b.2 | Uncertainty-Aware Fusion for Resilient Distributed Radar Sensing
<i>Christian Eckrich, Maik Pfefferkorn, Rolf Findeisen, Abdelhak M. Zoubir, Vahid Jamali, Technische Universität Darmstadt, Germany</i> | 10:40 AM |
| TA5b.3 | Resilient Wireless Access Through an Auction-Based Token Bucket Scheme
<i>Karl-Ludwig Besser, Linköping University, Sweden</i> | 11:05 AM |
| TA5b.4 | Beyond Redundancy: E2E Methodologies for Resilience in Industrial Systems across the 6G Converged Communication and Computing Fabric
<i>Florian Zeiger, Björn Richerzhagen, Carlos Guimaraes, Markus Sauer, Nikolaos Mitsakis, Fabian Graf, Siemens AG, Germany</i> | 11:30 AM |

Session TA6b Efficient Architectures for Foundation Model Deployment in Resource-Constrained Systems

Chair: *Eungjoo Lee, University of Arizona, United States*

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| TA6b.1 | test | 10:15 AM |
| | <i>Seok-Ju Hahn, Argonne National Laboratory, United States; Byeongwoo An, Begas, Republic of Korea; Eungjoo Lee, University of Arizona, United States</i> | |
| TA6b.2 | Conformal Speculative Speculative Decoding | 10:40 AM |
| | <i>Payel Bhattacharjee, University of Arizona, United States; Osvaldo Simeone, Northeastern University London, United Kingdom; Ravi Tandon, University of Arizona, United States</i> | |
| TA6b.3 | Efficient Rotations for Quantized Large Language Models | 11:05 AM |
| | <i>Sang Heum Yeon, Jae Jun An, Junwon Lee, Seokho Han, Jong Hwan Ko, Sungkyunkwan University, Republic of Korea</i> | |
| TA6b.4 | Towards Efficient Collective Dynamics in Multi-Agent Systems | 11:30 AM |
| | <i>Minah Lee, The University of Texas at Dallas, United States</i> | |

Session TA7b Recent theoretical and algorithmic advances in computational imaging

Co-Chairs: *Sara Fridovich-Keil, Georgia Institute of Technology, United States and Ashwin Pananjady, Georgia Institute of Technology, United States*

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| TA7b.1 | Accurate, provable, and fast nonlinear tomographic reconstruction via a monotone variational inequality | 10:15 AM |
| | <i>Mengqi Lou, Kabir Verchand, Sara Fridovich-Keil, Ashwin Pananjady, Georgia Institute of Technology, United States</i> | |
| TA7b.2 | Algorithmic advances in inverse scattering enabled by direct solvers | 10:40 AM |
| | <i>Olivia Tsang, University of Chicago, United States; Owen Melia, Flatiron Institute, United States; Vasileios Charisopoulos, University of Washington, United States; Jeremy Hoskins, Rebecca Willett, Yuehaw Khoo, University of Chicago, United States</i> | |
| TA7b.3 | Quantitative digital breast tomosynthesis enabled by advance image reconstruction algorithms | 11:05 AM |
| | <i>Emil Sidky, John Paul Phillips, Ingrid Reiser, Xiaochuan Pan, University of Chicago, United States</i> | |
| TA7b.4 | Report Generation for Ultrasound via Foundation Models | 11:30 AM |
| | <i>Joe Bobby, Salman Khan, Rice University, United States; Venkat Keshav Chivukula, University of Texas Health Science Center, United States; Guha Balakrishnan, Vivek Boominathan, Rice University, United States</i> | |

Session TA8b1 Extremely Large Aperture Arrays (ELAAs) and Near-Field Signal Processing

Co-Chairs: *Shunqiao Sun, University of Alabama, United States and Yimin D. Zhang, Temple University, United States*

10:15 AM–11:55 AM

- TA8b1.1 Beamforming with pixel antenna arrays for extremely large aperture systems
Diya Arun, Nitish Deshpande, Robert Heath Jr., University of California San Diego, United States
- TA8b1.2 How Many RF Chains Are Needed for Near-Field Beamfocusing? Beam-Depth Analysis of Array-of-Subarray Architectures
Özlem Tuğfe Demir, Bilkent University, Turkey
- TA8b1.3 Efficient Direct Near-Field MIMO Radar Imaging via Multiresolution Image Support Refinement
Okyanus Oral, Thomas Feuillen, Bhavani Shankar Mysore Rama Rao, University of Luxembourg, Luxembourg; Pu (Perry) Wang, Mitsubishi Electric Research Laboratories, Luxembourg
- TA8b1.4 Ambiguity Analysis and Aliasing Mitigation for Wideband Sparse Extremely Large Aperture Arrays
Yunqiao Hu, Shunqiao Sun, The University of Alabama, United States; Upamanyu Madhow, University of California, Santa Barbara, United States; Yimin D. Zhang, Temple University, United States; A. Lee Swindlehurst, University of California, Irvine, United States
- TA8b1.5 Optimal Array Design Exploiting Spatially-Varying Coarray For Near-field Imaging
Jannatul Ferdous, Fauzia Ahmad, Temple University, United States
- TA8b1.6 Channel Collage: Scalable Diffusion-Based Prior Learning for ELAA Channels
Ziyi Xu, Chinese University of Kong Kong, Hong Kong SAR of China; Chang Cai, University of Hong Kong, Hong Kong SAR of China; Shuoyao Wang, Shenzhen University, China; Ying-Jun Angela Zhang, Chinese University of Hong Kong, Hong Kong SAR of China
- TA8b1.7 Efficient Near Field Beam Tracking via Thompson Sampling
Junchi Liu, Zijun Wang, University at Buffalo, United States; Shawn Tsai, MediaTek Inc, United States; Rui Zhang, University at Buffalo, United States
- TA8b1.8 Element-Wise Noise Matching for Closely-Spaced Endfire Antenna Arrays
Matteo Ferro, Rainer Bachl, Maria Fresia, Huawei Technologies Düsseldorf GmbH, Germany; Luca Sanguinetti, University of Pisa, Italy

Session TA8b2 Array Processing

Co-Chairs: *Geert Leus, TU Delft, Netherlands and Yimin Zhang, Temple University, United States*

10:15 AM–11:55 AM

- TA8b2.1 Degrees-of-Freedom and the Covariance Manifold of Wideband Antenna Arrays
Benjamin Friedlander, University of California, Santa Cruz, United States
- TA8b2.2 FDR-Controlled Single-Snapshot DOA Estimation for Automotive Radar: A Comparative Study
Bowen Zhang, Jasin Machkour, Michael Muma, Technische Universität Darmstadt, Germany
- TA8b2.3 Scalable Compressive Measurement Optimization of Massive MIMO via Coarse-Grid Log-Det Learning
Mirza Haider, Yimin Zhang, Temple University, United States
- TA8b2.4 Direction of Arrival Finding Based on Irregular, Dynamic Platform Configurations
Sajad Eslamzadeh, University of Massachusetts Amherst, United States
- TA8b2.5 Cramer Rao Bounds for Direction-of-Arrival Estimation of Wideband Signals
Benjamin Friedlander, University of California, Santa Cruz, United States
- TA8b2.6 The Wideband Array Manifold for Direction of Arrival Estimation
Benjamin Friedlander, University of California, Santa Cruz, United States
- TA8b2.7 Resolving Ambiguity in Passive TDOA Geolocation Systems with an Altitude-Parametrized EKF
Liam Coulter, University of Minnesota, United States; Matthew Bliss, RTX BBN Technologies, United States
- TA8b2.8 Packet Radar for Distributed Multi-Radar Sensing
Yiyang Liu, Kris Li, Sean Farrell, Ashutosh Sabharwal, Rice University, United States
- TA8b2.9 Passive Acoustic Tracking of Multiple Sperm Whales in 3-D Using Belief Propagation With Integrated Ray-Tracing
Luisa Watkins, University of California San Diego, United States; Pina Gruden, Pina Gruden s.p., Slovenia; Erik Leitinger, Graz University of Technology, Austria; Eva-Marie Nosal, University of Hawaii, United States; Florian Meyer, University of California San Diego, United States
- TA8b2.10 Implementations and Trade-offs of the AEP Change Detection Algorithm
Gerard Gubash, Daniel W. Bliss, Arizona State University, United States
- TA8b2.11 Online Kernel Regression via Tensor Trains for Streaming Multi-way Data Imputation
Duc Thien Nguyen, Konstantinos Slavakis, Institute of Science Tokyo, Japan; Eleftherios Kofidis, University of Piraeus, Greece; Dimitris Pados, Florida Atlantic University, United States

- TA8b2.12 **Beyond ROUGE: N-Gram Subspace Features for LLM Hallucination Detection**
Jerry Li, Evangelos Papalexakis, University of California, Riverside, United States
- TA8b2.13 **Experimental Direction-of-Arrival Estimation Using Distributed Coherent, Sparse, Nonuniform Arrays**
Prithvi Hemanth, Arizona State University, United States; Jacob Holtom, DASH Tech Integrated Circuits, United States; Owen Ma, Andrew Herschfelt, Daniel Bliss, Arizona State University, United States
- TA8b2.14 **A Maximum-Likelihood Perspective on Robust Adaptive Beamforming**
Hirad Tabatabaei, Christ Richmond, Duke University, United States
- TA8b2.15 **Robust Eigenvalue-Based Detection for Distributed MIMO Systems Under Covariance Uncertainty**
Tharindu Udupitiya, Saman Atapattu, RMIT University, Australia; Prathap Dharmawansa, University of Oulu, Finland; Chintha Tellambura, University of Alberta, Canada; Mérouane Debbah, Khalifa University of Science and Technology, United Arab Emirates
- TA8b2.16 **Combined Linear and Non-Linear Shrinkage with Applications to STAP.**
Van Latimer, Radial Research and Development, United States; R.S. Raghavan, Braham Himed, Air Force Research Laboratory, United States
- TA8b2.17 **Improved SINR Estimation from Signal-Bearing Samples for Minimum Variance Beamformers**
Justin Htay, Christ Richmond, Duke University, United States
- TA8b2.18 **Near-Field Velocity Estimation and Doppler-Aware Localization in OFDM Massive MIMO**
Qing Zhang, KU Leuven, Belgium; Dario Tagliaferri, Politecnico di Milano, Italy; Robbert Beerten, Zhuangzhuang Cui, KU Leuven, Belgium; Yang Miao, University of Twente, Netherlands; Sofie Pollin, KU Leuven, Belgium
- TA8b2.19 **Joint Imaging and Material Identification using 2D Beamsteering and mmWave OFDM**
Alexandru-Paul Drăguțoiu, Peter Jiacheng Gu, Vlad Costin Andrei, Ullrich Mönich, Holger Boche, Technical University of Munich, Germany
- TA8b2.20 **Space-Time Coding for MIMO PMCW Radar**
Gabriel Daniel, Delft University of Technology, Netherlands; Hanqing Wu, Ashish Pandharipande, NXP Semiconductors, Netherlands; Geert Leus, Delft University of Technology, Netherlands
- TA8b2.21 **Landmark-Aided Autonomous Underwater Vehicle Navigation Using Passive Acoustic Identification Tags**
Brett Menard, Karim Sabra, Georgia Institute of Technology, United States; Aprameya Satish, Georgia Tech Research Institute, United States

- TA8b2.22 Constant-Modulus Phased-Array Transmit Beamformer Design for Beampattern Matching
Berkan Kilic, Kenan Turbic, Slawomir Stanczak, Fraunhofer Heinrich Hertz Institute, Germany
- TA8b2.23 Subspace based Wilks' Lambda test and the rejection of mismatched signals
Ram Raghavan, Air Force Research Laboratory, United States
- TA8b2.24 Scalable MVDR Beamforming with Self-Supervised Neural Networks
Sanjaya Herath, University of Maryland, College Park, United States; Matthew Ziemann, DEVCOM Army Research Laboratory, United States; Christopher Metzler, University of Maryland, College Park, United States
- TA8b2.25 An Algebraic Framework for the Analysis of 2qth-Order Difference Co-Arrays
Yuan-Pon Chen, University of Illinois Urbana-Champaign, United States; Chun-Lin Liu, National Taiwan University, Taiwan

Session TP1a Machine Learning for Communications

Chair: *Andrea Tonello, Universität Klagenfurt, Austria*

- TP1a.1 Reducing Complexity of Graph Neural Network-based Message Passing Detection 1:30 PM
Jannis Clausius, Stephan ten Brink, University of Stuttgart, Germany
- TP1a.2 Site-Specific Finetuning of Wireless Receivers 1:55 PM
Reinhard Wiesmayr, Nuri Berke Baytekin, ETH Zurich, Switzerland; Chris Dick, NVIDIA, United States; Christoph Studer, ETH Zurich, Switzerland
- TP1a.3 Insights on f-Divergence-Based Surrogate Objective Functions for Mutual Information Maximization 2:20 PM
Nicola Novello, Nunzio A. Letizia, University of Klagenfurt, Austria; Deniz Gündüz, Imperial College London, United Kingdom; Andrea M. Tonello, University of Klagenfurt, Austria
- TP1a.4 AI-native Semantic Communications via Causal Information Bottleneck 2:45 PM
Giuseppe Di Poce, CEA-LETI, France; Gabriele D'Acunto, Department of Information Engineering, Electronics, and Telecommunications, Sapienza University, Rome, Italy, Italy; Emilio Calvanese Strinati, CEA-LETI, France; Sergio Barbarossa, Paolo Di Lorenzo, Department of Information Engineering, Electronics, and Telecommunications, Sapienza University, Rome, Italy, Italy

Session TP2a Analog Signal Processing with MIMO and Metasurfaces

Chair: *George Alexandropoulos, University of Athens, Greece*

- TP2a.1 Hybrid Digital and Microwave Linear Analog 1:30 PM
Computer (MiLAC)-aided Beamforming for
Multiuser MIMO-OFDM Systems
*Yiyang Peng, Zheyu Wu, Bruno Clerckx, Imperial College
London, United Kingdom*
- TP2a.2 Multi-Frequency Beamforming with 1:55 PM
Space-Time Stacked Intelligent Metasurfaces
*Francesco Verde, University of Campania Luigi Vanvitelli,
Italy; Ivan Iudice, Italian Aerospace Research Centre
(CIRA), Italy; Donatella Darsena, University of Naples
Federico II, Italy; Vincenzo Galdi, University of Sannio,
Benevento, Italy*
- TP2a.3 Wideband Signal Processing with Stacked 2:20 PM
Intelligent Metasurfaces: Multiport Modeling,
Optimization, and Experimental Validation
*Andrea Abrardo, Alberto Toccafondi, Univeristy of Siena
and CNIT, Italy; Giulio Bartoli, University of Siena and
CNIT, Italy*
- TP2a.4 Efficient Design of Massive Pixel Antennas 2:45 PM
*Georg Schwan, Jaden Holborn, Alexander Stutz-Tirri,
Christoph Studer, ETH Zurich, Switzerland*

Session TP3a Topology, Dynamics, and Nonlinear Interactions

Chair: *Panagiotis Traganitis, Michigan State University*

- TP3a.1 Random multi-layer sampling on simplicial 1:30 PM
complexes
*Dhiraj Patel, Michael Schaub, RWTH Aachen University,
Germany*
- TP3a.2 Multiscale Localised Hodge Energy 1:55 PM
Signatures: Quantifying Topology and Geometry in
Networks and Point Clouds
*Vincent P. Grande, Michael T. Schaub, RWTH Aachen
University, Germany*
- TP3a.3 Efficient Estimation of Time-varying Signals 2:20 PM
over Evolving Graphs
*Mohammad Eini, Abdullah Karaaslanli, Michigan
State University, United States; Vassilis Kalantzis, IBM
Research, United States; Panagiotis Traganitis, Michigan
State University, United States*
- TP3a.4 Graph Bispectrum for Nonlinear Mode 2:45 PM
Interactions
*Rahul Singh, Reza Abiri, Walter Besio, University of
Rhode Island, United States*

Session TP4a Learning and Inference over Sensor-Driven Networks

Chair: *Zhiyang Wang, Washington University of St. Louis, United States*

- TP4a.1 Encoding Frequencies Without Fourier: 1:30 PM
Hyperdimensional Computing for Lightweight
Learning over Sensor Networks
*Brandan Sanchez, Jesus Sebastian Reyes, Raul Vargas,
Xiaofan Yu, University of California Merced, United States*
- TP4a.2 Manifold Learning for Multi-Modal 1:55 PM
Integrated Sensing and Communications in
Vehicular Networks
*Jia Yan, Hong Kong University of Science and Technology
(Guangzhou), China; Tong Wu, University of Central
Florida, United States; Hang Liu, University of Macau,
Macao SAR of China*
- TP4a.3 Stochastic Sparse Bipartite Graph 2:20 PM
Convergence via the Line-Graphon
*Roxanne Holden, Luana Ruiz, Johns Hopkins University,
United States*
- TP4a.4 PRiCE: A Two-Expert Hybrid Model for 2:45 PM
Outage Forecasting over Sensor Networks
*Shourya Bose, Tomas Kaljevic, Yu Zhang, UC SANTA
CRUZ, United States*

Session TP5a Sensing and Localization in the networked Systems

Co-Chairs: *Fei Tai, FH Dortmund, Germany and Huiping Huang,
Chalmers University of Technology, Sweden*

- TP5a.1 Uplink-Aware Target Detection in Swarm 1:30 PM
NCR-Assisted ISAC
*Özlem Tuğfe Demir, Bilkent University, Turkey; Alva
Kosasih, Nokia Technology Standards, Finland*
- TP5a.2 Model Order Selection in Tensor-Based 1:55 PM
Bistatic MIMO Radar
*Daniel Valle de Lima, Universidade de Brasília, Brazil;
Kevin Herman Muraro Gularte, João Paulo Javidi da
Costa, Hochschule Hamm-Lippstadt, Germany; Tai Fei,
Fachhochschule Dortmund, Germany*
- TP5a.3 CORDIS-Track: Tracking-Aware Coordinated 2:20 PM
Resource Allocation for Distributed Cell-Free ISAC
*Mehdi Zafari, University of California Irvine, United
States; Rang Liu, Friedrich-Alexander-Universität
Erlangen-Nürnberg, Germany; A. Lee Swindlehurst,
University of California Irvine, United States*
- TP5a.4 Geometric LiDAR Point Cloud Completion 2:45 PM
via Collective Perception Using Overhead RGB-D
Observations for Warehouse Robots
*Mohammad Khoshkdaahan, Dávid Strumpf, Alexey Vinel,
Karlsruhe Institute of Technology, Germany*

Session TP6a Security-Aware Architectures for Embedded Systems Against Side-Channel Attacks

Chair: *Maria Mushtaq, Télécom Paris, France*

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| TP6a.1 | No One-Size-Fits-All: Choosing the Right Detection for Cache Side-Channel Attacks
<i>Tara Ghasempouri, Ali Azarpeyvand, Ameer Shalabi, Jaan Raik, Tallinn University of Technology, Estonia</i> | 1:30 PM |
| TP6a.2 | Toward Simulator-Grounded Evaluation of ARM TrustZone against Side-Channels: A Cross-Platform Fidelity Study
<i>Nathanaël Simon, Gaétan Bois--Baumann, Maria Mushtaq, Ludovic Apvrille, Télécom Paris, France</i> | 1:55 PM |
| TP6a.3 | DUMMISS: A Hardware Countermeasure Faking Cache Evictions to Mitigate Cache-Based Side Channel Attacks
<i>Jorge Andres HOYOS RAMIREZ, Jose Abraham BERNAL GUTIERREZ, Brice COLOMBIER, Laboratoire Hubert Curien, France; Yuko HARA, Centre National de la Recherche Scientifique, France; Lilian BOSSUET, Laboratoire Hubert Curien, France</i> | 2:20 PM |
| TP6a.4 | From Synthesized Contracts to Verified Code In CompCert
<i>Léopold Clément, Dorian Bourgeoisat, Ulrich Kühne, Florian Brandner, Renaud Pacalet, Télécom Paris, France</i> | 2:45 PM |

Session TP7a Learning Compact Representations: Theory and Applications

Co-Chairs: *Shirin Saeedi Bidokhti, University of Pennsylvania, United States and Shirin Jalali, Rutgers University, United States*

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| TP7a.1 | Unsupervised Audio Denoising via Neural Lossy Compression
<i>Aayush Rajesh, Tsachy Weissman, Stanford University, United States</i> | 1:30 PM |
| TP7a.2 | Communications for Vision-Language Models: Task-Aware Visual Token Transmission
<i>Harshithanjani Athi, Sravan Kumar Ankireddy, The University of Texas at Austin, United States; Jianzhong Charlie Zhang, Samsung Research America, Samsung, United States; Hyeji Kim, The University of Texas at Austin, United States</i> | 1:55 PM |
| TP7a.3 | Unconditional CNN denoisers contain sparse semantic representation of images
<i>Zahra Kadkhodaie, Massachusetts Institute of Technology, United States; Stéphane Mallat, Collège de France, France; Eero Simoncelli, New York University, United States</i> | 2:20 PM |

TP7a.4 On the Optimality of Neural Compression for 2:45 PM
Structured Stationary Sources
*Ali Zafari, Rutgers University, United States; Jinheng
Zhang, Shirin Saeedi Bidokhti, University of Pennsylvania,
United States; Shirin Jalali, Rutgers University, United
States*

Session TP8a2 Speech, Image, and Video Processing

Chair: *Chris Metzler, University of Maryland, United States*

1:30 PM–3:10 PM

- TP8a2.1 CHASM : Cross-Scanner Image Harmonization via
Approximate Schrödinger Matching
*Samarth Singh, Jonathan McGee, Scott Acton, University
of Virginia, United States*
- TP8a2.2 A Multiresolution Approach to Accelerating Iterative
Deep Generative Models
*Michael McCann, Brendt Wohlberg, Cristina Garcia-
Cardona, Los Alamos National Laboratory, United States*
- TP8a2.3 MV-SA-CLIP: A Stage-Wise Hybrid Vision Encoder for
Cross-Modal Retrieval and Zero-Shot Classification
*Ambarish Parthasarathy, Sumohana Channappayya,
Indian Institute of Technology, Hyderabad, India*
- TP8a2.4 Multi-Modal Speaker Classification in Educational
Settings
*Nitya Khamar, Chongyu He, Jonathan McGee, Peter
Youngs, Scott Acton, University of Virginia, United States*
- TP8a2.5 Lightweight Contrastive Adaptation of EO Foundation
Models for Cross-Modal Classification
*Stefanos Koutoupis, Michaela Areti Zervou, Panagiotis
Tsakalides, Grigorios Tsagkatakis, University of Crete;
Foundation for Research and Technology - Hellas, Greece*
- TP8a2.6 Beyond Random: Learned Image Masking Policies
*Jonathan McGee, Scott T. Acton, University of Virginia,
United States*
- TP8a2.7 Deep Pseudo-Proximal Map: A Self-Supervised Data-
Fitting Agent for Iterative Reconstruction
*Haley Duba-Sullivan, Purdue University, United States;
Emma J. Reid, Oak Ridge National Laboratory, United
States; Charles A. Bouman, Gregory T. Buzzard, Purdue
University, United States*
- TP8a2.8 Layout-Aware Sparse Phase Retrieval for Ptychographic
Mask Inspection
*Alex Boquet-Pujadas, Benjamin Béjar Haro, Swiss Data
Science Center Hub at Paul Scherrer Institute, Switzerland*
- TP8a2.9 Domain Randomization Reveals Systematic Brittleness
in GUI Grounding Models
*Yangyue Wang, Harshvardhan Sikka, Fig, United States;
Yash Mathur, Tony Zhou, Jinu Nyachhyon, Manifest
Research Group, United States; Pranav Guruprasad, Fig,
United States*

- TP8a2.10 Skinclusive AI: Towards Equitable Skin Cancer Detection for Deployment on Edge Devices
Joseph Galicinao, Jane Zhang, California Polytechnic State University, San Luis Obispo, United States
- TP8a2.11 Necessary Information Measure for Neural Reconstruction of Radiance Fields
Tiyasa Sarkar, Flip Phillips, Rochester Institute of Technology, United States
- TP8a2.12 Detection of Adversarial Attacks on Super-Resolvers Using Spectral Features
Emma J. Reid, Haley Duba-Sullivan, Tony Allen, Oak Ridge National Laboratory, United States
- TP8a2.13 Multimodal Fusion Model for Action Segmentation in Suturing Dataset
PrasanthSai Gouripeddi, Nupur Thakur, Baoxin Li, Arizona State University, United States; Hannah Eherenfeldt, Benjamin Knapp, ReSuture, United States
- TP8a2.14 FRAPPE: Full Input, Residual Output Autoencoding with Projection Pursuit Encoder
Dan Jacobellis, Neeraja J. Yadwadkar, University of Texas at Austin, United States
- TP8a2.15 SplatStream: Fine Granular Scalable Gaussian Splatting for Adaptive 3D Scene Streaming
Muhammad Talha, University of Missouri-Kansas City, United States; William Gordon, BASIS Independent Silicon Valley, United States; Sajid Umair, Zhu Li, University of Missouri-Kansas City, United States; Anique Akhtar, Joel Jung, Qualcomm, Inc., United States
- TP8a2.16 Fixed Pattern Noise Removal Using a Physics-Inspired CycleGAN
Benjamin Marty, William Guicquero, Laurent Dussot, CEA-Leti, France
- TP8a2.17 GTNet: An Efficient GAN-Transformer Pair for AV1 In-loop Super-resolution and Restoration
Yuming Han, Zixiang Xiong, Texas A&M University, United States; Anders Host-Madsen, University of Hawaii at Manoa, United States
- TP8a2.18 Leveraging Graph Neural Networks for Robust Dynamic Sound Source Tracking
Priyadarshini Dwivedi, Muskan -, Indian Institute of Technology Kanpur, India; Gyanajyoti Routray, SRM University AP Amaravati, India; Rajesh M. Hegde, Indian Institute of Technology Kanpur, India
- TP8a2.19 Adversarial Masking Approach for Robust Target Source Localization in the SH Domain
Gyanajyoti Routray, SRM University AP Amaravati, India; Priyadarshini Dwivedi, Indian Institute of Technology Kanpur, India; Rahul Peter, BITS Pilani, India; Rajesh M. Hegde, Indian Institute of Technology Kanpur, India
- TP8a2.20 Listener-Aware Speech Representations for Hearing-Aid Applications
Sarthak Mangla, Afagh Farhadi, Michael Heinz, Purdue University, United States

- TP8a2.21 ASR-Style Transcript Normalization Removes Useful Pragmatic Signal for Dialogue Act Classification
Lucky Onyekwelu-Udoka, Md Shafiqul Islam, Iowa State University, United States
- TP8a2.22 MULTISpoof: A Multilingual Dataset for Cross-Lingual Synthetic Speech Detection
Maria Risques, Kratika Bhagatani, Amit Kumar Singh Yadav, Edward J. Delp, Purdue University, Spain

Session TP8a1 Deep Learning, Bandits, and Applications

Chair: *Panagiotis Markopoulos, University of Texas at San Antonio, United States*

1:30 PM–3:10 PM

- TP8a1.1 Improved Multiplayer Bandit Algorithms for Bernoulli Rewards
Khang Nguyen, USC, United States; Ricardo Parada, William Chang, University of California, Riverside, United States
- TP8a1.2 Depth- and Rank-Selective Multilinear Transformation Layers for Compact CNNs
Van Tien Nguyen, The University of Texas at San Antonio, United States; Mayur Dhanaraj, Amazon, United States; Panagiotis Markopoulos, The University of Texas at San Antonio, United States
- TP8a1.3 ACTIVE SPEAKER DETECTION IN CROWDED COLLABORATIVE CLASSROOM ENVIRONMENTS
Sebastian Janampa, Marios Pattichis, The University of New Mexico, United States; Sylvia Celedon-Pattichis, The University of Texas at Austin, United States; Wenjing Shi, The University of New Mexico, United States
- TP8a1.4 CrossLag: Predicting Major Dengue Outbreak Signals with Limited Data and Transformers
Ashwin Prabu, Nhat Thanh Tran, Jack Xin, Guofa Zhou, University of California, Irvine, United States
- TP8a1.5 Entropy-aware Fine-grained Contextual Fusion for Multiple Autonomous Driving Conditions
Markus Flierl, Zhenghao Li, KTH Royal Institute of Technology, Sweden
- TP8a1.6 Towards Universal Representation-Based Process Control
Jinmyeong Choi, Taesup Kim, Seoul National University, Republic of Korea; Artur Dubrawski, Carnegie Mellon University, United States
- TP8a1.7 Unboxing the CNN: Mechanistic Interpretability and Inhibitory Logic in Time-Frequency Signal Classification
Thomas Kidd, Qi Cheng, Oklahoma State University, United States

- TP8a1.8 Robust Multi-Agent Bandits with Heavy-Tailed Rewards and Information Asymmetry
Daphne Feng, University of California, Los Angeles, United States; Ricardo Parada, University of California, Riverside, United States; Lily Jiang, Sophia Yi, University of California Los Angeles, United States; William Chang, University of California, Los Angeles, United States
- TP8a1.9 Repair Brain Damage: Real-Numbered Error Correction Code for Neural Network
Ziqing Lu, University of Iowa, United States; Myung Cho, California State University, Northridge, United States; Qitong Jin, University of California, Berkeley, United States; Weiyu Xu, University of Iowa, United States
- TP8a1.10 Can Rich Embeddings Compensate for Model Simplicity? Exploring the Relationship Between Embedding Quality and Model Complexity
Cate Dunham, Worcester Polytechnic Institute, United States; Thomas Cao, DTRA RD-CBEI A&AS, United States; Chia-Wei Tsai, DTRA RD-CBEI S&T Manager, United States; Joshua Uzarski, DEVCOM Soldier Center, United States; Randy Paffenroth, Worcester Polytechnic Institute, United States
- TP8a1.11 Coordinating the Unknown Lipschitz Constant in Multiplayer Bandits
Ricardo Parada, UC Riverside, United States; Chenzhang Zhao, William Chang, UCLA, United States
- TP8a1.12 Ambiguity-Reduced Margin-Based Knowledge Distillation for Improved Calibration in Low-Capacity Models
Sarah Instenes, Cristinel Ababei, Marquette University, United States
- TP8a1.13 Synthetic Pretraining for Neural UAV Trajectory Prediction from Direction-Only Measurements
Yoav Raytsfeld, Alon Kipnis, Reichman University, Israel
- TP8a1.14 Hilbert-Scale Stability of Posterior Diffusion Priors for Ill-Posed Signal Recovery
Bahman Moraffah, Raha Moraffah, Worcester Polytechnic Institute, United States
- TP8a1.15 When is Quantized Training Effective? A Data-Aware Monitoring Approach
Arian Eamaz, Farhang Yeganegi, Mojtaba Soltanalian, University of Illinois Chicago, United States

Session TP1b Spectrum Frontiers

Chair: *Yasaman Ghasempour, Princeton University, United States*

- TP1b.1 Countering Scattering Using Near-Field Structured Beams at Sub-Terahertz Frequencies 3:30 PM
Junjie Wu, University of Nebraska-Lincoln, United States; Md Hasibul Islam, Hichem Guerboukha, University of Missouri-Kansas City, United States; Shuai Nie, University of Nebraska-Lincoln, United States
- TP1b.2 Direction-dependent radar cross section of road-traffic objects in the sub-THz regime 3:55 PM
Abhishek Manjunath, Atulya Bist, Naveed Abbasi, Andreas Molisch, University of Southern California, United States

- TP1b.3 Hardware-Algorithm Co-Design for Interference Mitigation in FR3 Receivers 4:20 PM
Peijie Yang, Ozlem Yildiz, Reza Nikandish, Wenpu Xia, Sundeep Rangan, Elza Erkip, Hamed Rahmani, New York University, United States
- TP1b.4 Digital Pre-Distortion for Wideband, Multi-Carrier Power Amplifiers in the Upper Mid-Band 4:45 PM
Marouan Mizmizi, Marco Mezzavilla, Politecnico di Milano, Italy; Reza Nikandish, Hamed Rahmani, Sundeep Rangan, New York University, United States

Session TP2b Revisiting MIMO for 6G Systems

Co-Chairs: *Vasanthan Raghavan, Qualcomm, United States and David J. Love, Purdue University, United States*

- TP2b.1 Golay Sequences for Integrated Sensing and Communication (ISAC) for Vehicles 3:30 PM
Akarsh Yadav, Mark Bell, James Krogmeier, David Love, Purdue University, United States
- TP2b.2 Coherent Beamforming with Discrete Antennas in Commercial Handsets 3:55 PM
Vasanthan Raghavan, Ozge Koymen, Junyi Li, Qualcomm, United States
- TP2b.3 Tri-hybrid precoding with parasitic antennas for multi-user MIMO 4:20 PM
Raiyan Basher, Miguel Rodrigo Castellanos, University of Tennessee Knoxville, United States
- TP2b.4 Physics-Informed Learning for Sensing-Assisted Channel Prediction in Ultra-Massive MIMO Systems 4:45 PM
Nuria Gonzalez Prelcic, Alireza Javid, University of California San Diego, United States

Session TP3b Causality in Graph Learning

Chair: *Samuel Rey Escudero, Universidad Rey Juan Carlos, Spain*

- TP3b.1 Causal Discovery in Equal Variance Linear Gaussian DAGs via SURE-Tuned Ridge Regression 3:30 PM
Sambit Mishra, Urbashi Mitra, University of Southern California, United States
- TP3b.2 Epidemiological Causal Graph Identification: Challenges, Identifiability and Algorithms 3:55 PM
Sambit Mishra, University of Southern California, United States; Yingying Wang, Christine K. Johnson, University of California, Davis, United States; Urbashi Mitra, University of Southern California, United States
- TP3b.3 Non-negative DAG Learning from Streaming Data 4:20 PM
Madeline Navarro, Rice University, United States; Samuel Rey, Universidad Rey Juan Carlos, Spain; Gonzalo Mateos, University of Rochester, United States; Santiago Segarra, Rice University, United States

- TP3b.4 Optimal Interventions for Sequential Causal Discovery 4:45 PM
Guanchao Feng, Stony Brook University, United States; Kurt Butler, The University of Edinburgh, United Kingdom; Shervin Jarrahi, Petar M. Djuric, Stony Brook University, United States
- TP3b.5 Causal Discovery in Nonlinear Time Series with Sparse Structural Shocks 5:10 PM
Panagiotis Misiakos, Markus Püschel, ETH Zurich, Switzerland

Session TP4b Neural representations for dynamical physical systems

Co-Chairs: *Hassan Mansour, Mitsubishi Electric Research Laboratory, United States and Joshua Rapp, Mitsubishi Electric Research Laboratory, United States*

- TP4b.1 Towards a rate-distortion theory for implicit neural representations 3:30 PM
Quang Nguyen, Sara Fridovich-Keil, Georgia Institute of Technology, United States
- TP4b.2 Neural-Implicit Fields for Parameterized-PDE-Constrained Inference in Fluid Dynamic Systems 3:55 PM
Samuel Grauer, Pennsylvania State University, United States; Ke Zhou, Huawei Technologies Co., Ltd., China; Rui Tang, Guanguan Ke, Pennsylvania State University, United States; Joseph Molnar, U.S. Naval Research Laboratory, United States
- TP4b.3 ScoreField: Neural Inverse Scattering with Score-Based Generative Priors 4:20 PM
Wenhan Guo, Yuan Gao, Yu Sun, Johns Hopkins University, United States
- TP4b.4 Single View Camera-Based Dynamic Airflow Sensing with Physics Informed Neural Representations 4:45 PM
Kevin Tandi, University of California San Diego, United States; Arjun Teh, Carnegie Mellon University, United States; Wael Hajj Ali, Joshua Rapp, Hassan Mansour, Mitsubishi Electric Research Laboratories, United States
- TP4b.5 Neural Fields for Revealing the Invisible Universe 5:10 PM
Brandon Zhao, Caltech, United States; Aviad Levis, University of Toronto, Canada; Liam Connor, Harvard University, United States; Pratul Srinivasan, Google DeepMind, United States; Marianna Foschi, California Institute of Technology, United States; Antonio Fuentes, Jose Gomez, Instituto de Astrofísica de Andalucía, Spain; Diana Scognamiglio, Olivier Doré, NASA, United States; Katherine Bouman, California Institute of Technology, United States

Session TP5b Learning with Limited Supervision

Chair: *Ulugbek Kamilov, University of Wisconsin–Madison, United States*

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| TP5b.1 | Aggregating Multiple Self-Supervised Tasks for Robust Semi-Supervised Learning
<i>Arshdeep-Singh Chudda, Panagiotis Traganitis, Michigan State University, United States</i> | 3:30 PM |
| TP5b.2 | RF ONE-CLASS CLASSIFICATION VIA SHIFTED DEEPSVDD
<i>Edward Reehorst, Air Force Research Labs, United States; Philip Schniter, Ohio State University, United States</i> | 3:55 PM |
| TP5b.3 | Semantic Soft Bootstrapping: Long Context Reasoning in LLMs Without Reinforcement Learning
<i>Purbesh Mitra, Sennur Ulukus, University of Maryland, United States</i> | 4:20 PM |
| TP5b.4 | ForcingDAS: Long-Sequence Data Assimilation with Diffusion Forcing
<i>Qing Qu, University of Michigan, United States</i> | 4:45 PM |
| TP5b.5 | NullFlow: One-Step Generative Reconstruction
<i>Xiao Shi, Edward Chandler, Chicago Park, Shirin Shoushtari, Ulugbek Kamilov, UW-Madison, United States</i> | 5:10 PM |

Session TP6b Task-driven computational imaging: Redefining Image Quality Assessment and Optimization in the Era of AI

Chair: *Fan Lam, University of Illinois Urbana-Champaign, United States*

- | | | |
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| TP6b.1 | Using deep feature distances for evaluating the perceptual quality of MR image reconstructions
<i>Philip Adamson, Akshay Chaudhari, Stanford University, United States</i> | 3:30 PM |
| TP6b.2 | Designing Computational Imaging Systems for Task Performance
<i>Mark Anastasio, Washington University in St. Louis, United States</i> | 3:55 PM |
| TP6b.3 | Accelerating Multicontrast MRI via Lesion-Targeted Adaptive Sampling
<i>Jiachen Tu, Fan Lam, University of Illinois Urbana-Champaign, United States</i> | 4:20 PM |
| TP6b.4 | Implicit Neural Representation for Image Quality Assessment
<i>Dhananjaya Jayasundara, Sudarshan Rajagopalan, VISHAL PATEL VISHAL PATEL, Johns Hopkins University, United States</i> | 4:45 PM |

Session TP7b Learning and Sensing over the Years

Chair: *Justin Romberg, Georgia Institute of Technology, United States*

- TP7b.1 Catastrophic Forgetting in Kernel Continual Learning 3:30 PM
Adrian Candocia, Sean Hung, Mark Davenport, Georgia Tech, United States
- TP7b.2 Massive scale covariance estimation for array processing 3:55 PM
Lucia Torres, Nakul Singh, Mark Davenport, Justin Romberg, Georgia Institute of Technology, United States
- TP7b.3 Embedding and Recovering Structured States in Quantum Tomography 4:20 PM
Zhen Qin, University of Michigan, United States; Alireza Goldar, Colorado School of Mines, United States; Zhihui Zhu, The Ohio State University, United States; Zhe-Xuan Gong, Michael Wakin, Colorado School of Mines, United States
- TP7b.4 Reliability-aware phase propagation for self-referenced interferometric phase retrieval. 4:45 PM
Nebiyou Yismaw, M. Salman Asif, University of California Riverside, United States
- TP7b.5 Compressive Sensing and Quantization: what have we learned? 5:10 PM
Petros Boufounos, Mitsubishi Electric Research Laboratories, United States

Session TP8b Intelligent, Secure, and Reconfigurable Wireless Systems

Chair: *TBD*

3:30 PM–5:35 PM

- TP8b.1 Predict, Reconcile, Direct: Three Skills for Digital-Twin Enabled Agentic 6G Base Stations 3:30 PM
Vlad Andrei, Aladin Djuhera, Xinyang Li, Amin Seffo, Ullrich Mönich, Holger Boche, Technical University of Munich, Germany
- TP8b.2 Energy-Aware Base Station Sleep Control in 6G Digital Twins via Deep Reinforcement Learning 4:00 PM
Umma Fariha Zhinuk, Aleksandr Ometov, Joonas Sæe, Tampere University, Finland; Jussi Turkka, Jarno Niemelä, Elisa Corporation, Finland; Mikko Valkama, Tampere University, Finland
- TP8b.3 Exploiting Digital Twins for Rain-Aware Resource Allocation in Multi-Band Non-Terrestrial Networks 4:30 PM
Thomas Gundgaard Mulvad, Nicolai Dalsgaard Lyholm, Aalborg University, Denmark; Beatriz Soret, University of Málaga, Spain; Yan Kyaw Tun, Cedomir Stefanovic, Israel Leyva Mayorga, Aalborg University, Denmark
- TP8b.4 Kriged Kalman Filtering for Channel Estimation of Fluid Antennas with Switching Delays 5:00 PM
Daniel Dinis, Risto Wichman, Aalto University, Finland

- TP8b.5 Uplink Channel Estimation for Multi-User MISO Systems Assisted by a Fluid Reconfigurable Intelligent Surface
Amarilton Lopes Magalhães, André L. F. de Almeida, Federal University of Ceara, Brazil; George C. Alexandropoulos, National and Kapodistrian University of Athens, Greece
- TP8b.6 Detection-Aware Secure Wireless Transmission with Joint Covert Masking and Artificial Noise
Saman Atapattu, RMIT University, Australia
- TP8b.7 Stealthy Jamming Under Ambient Uncertainty: A Unified Scaling Law from Square-Root Covertiness to SNR Walls
C. Nicolas Barati, Old Dominion University, United States; Kimberly Gold, NAVSEA Crane Division, United States; Eric Burger, Virginia Tech, United States; Sachin Shetty, Old Dominion University, United States
- TP8b.8 Machine Learning-based Optimization of Implicit Channel Quality-Driven Resource Allocation for OFDMA Wi-Fi Networks
Sushma Tilaka Perumal, Technische Universität Dresden and Indian Institute of Technology Ropar, Germany; Qiaohan Zhang, Philipp Schulz, Technische Universität Dresden, Germany; Sam Darshi, Indian Institute of Technology Ropar, India; Gerhard Fettweis, Technische Universität Dresden, Germany
- TP8b.9 Timely Ground-Station Status Delivery via UAV-Assisted Data Collection and Hierarchical RL
Xiangjian Gao, Mohammad Moltafet, Hamid Sadjadpour, University of California, Santa Cruz, United States
- TP8b.10 Task-Agnostic Compression for Communication-Efficient Edge Inference
Eren Balevi, Qualcomm Inc., United States
- TP8b.11 Preemption Revisited: Multi-Threshold Preemption Policies for AoI Minimization
Sahan Liyanaarachchi, Sennur Ulukus, University of Maryland, United States; Nail Akar, Bilkent University, Turkey
- TP8b.12 Discrete-Time Modeling and Analysis of N-Path Receivers: Interference and Nonlinear Distortion
Jayadev Joy, Reza Nikandish, Hamed Rahmani, Sundeep Rangan, New York University, United States
- TP8b.13 Optimality of Bang-Bang Switching for Breaking the Chu Limit via Time-Modulated Matching
Mohamed Akrouf, Rodrigo Castellanos, University of Tennessee, United States
- TP8b.14 ISAC Beampattern Design and Performance Tradeoffs
Kenan Turbic, Berkan Kilic, Slawomir Stanczak, Fraunhofer HHI, Germany

Session WA1a PHY- and MAC-Layer Techniques

Chair: *TBD*

- WA1a.1 On Channel Estimation in Repeater-Assisted MIMO 8:15 AM
Martin Andersson, Anubhab Chowdhury, Erik G. Larsson, Linköping University, Sweden
- WA1a.2 SALAD: Self-Adaptive Link Adaptation 8:40 AM
Reinhard Wiesmayr, ETH Zurich, Switzerland; Lorenzo Maggi, Sebastian Cammerer, Jakob Hoydis, Faycal Ait Aoudia, Alexander Keller, NVIDIA, France
- WA1a.3 Model-Driven Low-Complexity SNR-Robust Channel Estimation via Two-Point MMSE Interpolation 9:05 AM
Donggui Hu, Amit Sravan Bora, Emil Matus, Gerhard Fettweis, Technische Universität Dresden, Germany
- WA1a.4 Discrete-Aware 1-Bit Quantized Precoding for Massive MU-MIMO 9:30 AM
Getuar Rexhepi, Kuranage Roche Rayan Ranasinghe, Giuseppe Thadeu Freitas de Abreu, Constructor University Bremen, Germany

Session WA2a Applications of Machine Learning for Future Wireless Networks

Chair: *Tharm Ratnarajah, San Diego State University, United States*

- WA2a.1 Shifted-Window Transformer-Based Direction-of-Arrival Estimation in Low-SNR Regimes 8:15 AM
Alan Linan, Tharm Ratnarajah, San Diego State University, United States
- WA2a.2 Variational Bayesian Data Detection for Multiuser MIMO Systems Corrupted by Phase Noises 8:40 AM
Toan-Van Nguyen, Duy H. N. Nguyen, San Diego State University, United States
- WA2a.3 Accelerated MIMO Transceiver Optimization 9:05 AM
Jichao Chen, Zilu Zhao, Fangqing Xiao, Dirk Slock, EURECOM, France
- WA2a.4 MM-DTcam: Privacy-Preserving mmWave CSI based Depth camera for Digital Twins 9:30 AM
Abhimanyu Gulia, Mathini Sellathurai, Heriot-Watt University, United Kingdom

Session WA3a Modern Machine Learning and Optimization for Wireless Networks

Chair: *Mark Eisen, Intel Labs, United States*

- WA3a.1 Time-Series Foundation Models for Communication Networks: From Zero-Shot Inference to Parameter-Efficient Fine-Tuning 8:15 AM
Yiming Zhang, Dongning Guo, Northwestern University, United States

- WA3a.2 Distributionally Robust Resource Policies 8:40 AM
over Kullback-Leibler Balls
Gokberk Yaylali, Baturay Saglam, Dionysis Kalogieras, Yale University, United States
- WA3a.3 Gram-Guided Diffusion for Joint MIMO 9:05 AM
Channel Estimation and Data Detection
Xinyuan Wang, Texas A&M University, United States; Nicholas Zilberstein, Rice University, United States; Krisha Narayanan, Texas A&M University, United States; Santiago Segarra, Rice University, United States; Antharam Swami, Army Research Lab, United States
- WA3a.4 Fusion of Wi-Fi, audio and language-based 9:30 AM
reasoning capabilities for robust indoor activity
detection
Rahul C. Shah, Gila Kamhi, Udi Apsel, Maximilian Pinaroc, Intel Corp., United States

Session WA4a Probabilistic Methods for Machine Learning and Signal Processing

Chair: *Qin Lu, University of Georgia, United States*

- WA4a.1 Importance-Weighted Multimodal Diffusion 8:15 AM
Models with Gaussian Mixtures and Robustness to
Outliers
Alireza Sadeghi, Leonidas Tsigkounakis, Georgios B. Giannakis, University of Minnesota, United States
- WA4a.2 Unifying Selective Dynamics and Attention in 8:40 AM
State Space Models
Marzieh Ajirak, Cornell University, United States; Petar Djuric, Stony Brook University, United States
- WA4a.3 Communication Efficient Federated Gaussian 9:05 AM
Processes
Kainat Ijaz, Georgia State University, United States; Jinwen Xu, Qin Lu, University of Georgia, United States; Ping Xu, Georgia State University, United States
- WA4a.4 Geom3DSBO: Self-supervised learning meets 9:30 AM
Bayesian optimization for geometry-informed 3D
reconstruction
Konstantinos D. Polyzos, University of California San Diego, United States; Athanasios Bacharis, NVIDIA, United States; Tara Javidi, University of California San Diego, United States

Session WA5a Learning-Enabled Signal Processing, Communication and Sensing

Chair: *Hei Victor Cheng, Aarhus University, Denmark*

- WA5a.1 Sample Complexity Analysis for Nonnegative 8:15 AM
Component Analysis and Nonnegative Matrix
Factorization
Kejun Huang, University of Florida, United States

- WA5a.2 Learning-Inspired Finite Horizon 8:40 AM
Optimization for Large-Scale MIMO Beamforming
Yi Feng, Chinese University of Hong Kong, Shenzhen, China; Hei Victor Cheng, Kaiming Shen, Aarhus University, Denmark
- WA5a.3 On the Low-Rank Structure of Language 9:05 AM
Models
Firas Laakom, King Abdullah University of Science and Technology, Saudi Arabia; Haobo Chen, University of California, Santa Barbara, United States; Jürgen Schmidhuber, King Abdullah University of Science and Technology, Saudi Arabia; Yuheng Bu, University of California, Santa Barbara, United States
- WA5a.4 Communication-Efficient Distributed 9:30 AM
Multilinear Multitask Learning
Tongle Wu, Ying Sun, The Pennsylvania State University, United States

Session WA6a Compression and sparsity in deep learning optimization

Chair: *Laura Balzano, University of Michigan, United States*

- WA6a.1 Compressible Dynamics in Deep 8:15 AM
Overparameterized Low-Rank Learning & Adaptation
Can Yaras, Laura Balzano, University of Michigan, United States; Peng Wang, University of Macau, United States; Qing Qu, University of Michigan, United States
- WA6a.2 Zero-Shot Inference-time Structured 8:40 AM
Approximation of Softmax Attention
Can Yaras, Princeton University, United States; Alec Xu, University of Michigan, United States; Pierre Abillama, Apple, United States; Changwoo Lee, Qualcomm, United States; Laura Balzano, University of Michigan, United States
- WA6a.3 Neuron Pursuit: A Parsimony-Driven Iterative 9:05 AM
Greedy Algorithm for Building Neural Networks
Akshay Kumar, Jarvis Haupt, University of Minnesota, United States

Session WA7a AI-Native Integrated Communication and Computing in 6G Networks

Co-Chairs: *Aydin Sezgin, Ruhr-Universität Bochum, Germany and Robert-Jeron Reifert, Ruhr-Universität Bochum, Germany*

- WA7a.1 Learning to Compute on Dirty Paper 8:15 AM
Shreesal Shrestha, Kuranage Roche Rayan Ranasinghe, Giuseppe Thadeu Freitas de Abreu, Constructor University, Germany; Elza Erkip, New York University, Germany

- WA7a.2 Wireless Digital Twin Calibration: Refining DFT-Domain Channel Information 8:40 AM
Hao Luo, Arizona State University, United States; Saeed Reza Khosravirad, Nokia Bell Labs, United States; Ahmed Alkhateeb, Arizona State University, United States
- WA7a.3 Infrastructure-Aware Admission Control in Open RAN: Hardware-Observability and Algorithms 9:05 AM
Sven Simikin, NYU Shanghai, China; Eduard Jorswieck, TU Braunschweig, Germany
- WA7a.4 AI-Native Joint Computing and Networking in HAPS-Ground Integrated Systems via Deep Unfolding 9:30 AM
Anh Thi Bui, Robert-Jeron Reifert, Ruhr University Bochum, Germany; Hayssam Dahrouj, University of Sharjah, United Arab Emirates; Aydin Sezgin, Ruhr University Bochum, Germany

Session WA1b Information Theory and Signal Processing of ISAC Systems

Chair: *Giuseppe Caire, Technische Universität Berlin, Germany*

- WA1b.1 A Superposition Signaling Scheme for Integrated Sensing and Communication 10:15 AM
Gökhan Yilmaz, Hamdi Joudeh, Eindhoven University of Technology, Netherlands; Giuseppe Caire, Technical University of Berlin, Germany
- WA1b.2 Integrated Communications and Radar Imaging: Pilot- versus Data-Payload-Based Solutions 10:40 AM
Neeraj Pandey, Christos Masouros, University College London, United Kingdom
- WA1b.3 Beyond the Cramér–Rao Bound: Rate–Distortion and Other Information-Theoretic Limits for ISAC 11:05 AM
Mohammadreza Bakhshizadeh Mohajer, Luca Barletta, PoliMI, Italy; Alex Dytso, Qualcomm, United States; Daniela Tuninetti, UIC, United States

Session WA2b ML for Array Processing

Chair: *TBD*

- WA2b.1 Bidirectional Diffeomorphic Temporal Alignment Network. Application to Distributed Acoustic Sensing 10:15 AM
Konstantinos Vassalos, Cédric Richard, Université Côte d’Azur, France
- WA2b.2 Deep Beamforming with Capsule Networks 10:40 AM
Joel Alanko, Juho Kuikka, Esa Ollila, Sergiy A. Vorobyov, Aalto University, Finland
- WA2b.3 Reinforcement Learning Approaches for Cooperative Multi-UAV Localization of Emitters 11:05 AM
Christopher Peters, Michael Watts, Mitchell Thornton, Eric Larson, Southern Methodist University, United States

Session WA3b New Directions in Decentralized Learning

Co-Chairs: *Nicolo Michelusi, Arizona State University, United States and Erik G. Larsson, Linköpings Universitet, Sweden*

- WA3b.1 A hypergraph-based nuclear norm 10:15 AM
regularization for decentralized multitask learning
*Gustavo Faia Fagundes, Cédric Richard, Roula Nassif,
Université Côte d'Azur, France*
- WA3b.2 Create, Duplicate, or Be Eaten: Random-Walk 10:40 AM
Learning vs. the Pac-Man Attack
*Xingran Chen, Singapore University of Technology and
Design, Singapore; Rohit Bhagat, Rutgers University,
United States; Parimal Parag, Indian Institute of Science,
India; Salim El Rouayheb, Rutgers University, United
States*
- WA3b.3 Decentralized Time-Varying Optimization for 11:05 AM
Streaming Data via Temporal Weighting
*Muhammad Faraz Ul Abrar, Nicolò Michelusi, Arizona
State University, United States; Erik G. Larsson,
Linköping University, Sweden*

Session WA4b Behavioral Control in Foundation Models via First-Principles Approaches

Chair: *Tan Nguyen, National University of Singapore, Singapore*

- WA4b.1 Sparse Logical Frames for Feature and Data 10:15 AM
Attribution
*Landon Butler, Justin Singh Kang, Yigit Efe Erginbas,
Kannan Ramchandran, UC Berkeley, United States*
- WA4b.2 Targeted unlearning with single layer single 10:40 AM
gradient update
*Yaoteng Tan, Salman Asif, University of California
Riverside, United States*
- WA4b.3 FracGRAND: Graph Neural Diffusion Meets 11:05 AM
Fractional Differential Equations
*Long Minh Bui, Washington State University, United
States; Nghia Nguyen, University of Pennsylvania, United
States; Trong Nghia Hoang, Washington State University,
United States; Tan Minh Nguyen, National University of
Singapore, Singapore; Thieu N. Vo, University of Bath,
United Kingdom*

Session WA5b Emerging Computational Methods for Biomedical Imaging

Chair: *Jon Tamir, University of Texas at Austin, United States*

- WA5b.1 MRI-Free Amyloid PET Quantification Using 10:15 AM
Multi-Task Deep Learning
*Riti Paul, Sivaraman Vaidyanathan, Teresa Wu, Arizona
State University, United States; Yi Su, Banner Alzheimer's
Institute, United States; Baoxin Li, University of Illinois,
United States*

- WA5b.2 Inverse-scattering with diffusion models 10:40 AM
Yue An, The University of Texas at Austin, United States; Brett Levac, Microsoft Research, United States; Jonathan Tamir, Shwetadwip Chowdhury, The University of Texas at Austin, United States
- WA5b.3 Configurable Algorithms for Histopathologic Cancer Detection on Quantum Hardware 11:05 AM
Nandika Goyal, Glen Uehara, Andreas Spanias, Arizona State University, United States

Session WA6b Domain-Specific Logic and Hardware Acceleration

Chair: *TBD*

- WA6b.1 Configurable SIMD Log-Floating Point Multiplier 10:15 AM
Quentin Koeninger, Hridi Prova Debnath, James E. Stine, Shahriar Shahabuddin, Oklahoma State University, United States
- WA6b.2 AFG: An Asymmetric Fast Givens Systolic Array with Unitary-Grade Stability in Fixed-Point Hardware 10:40 AM
Carl Ingemarsson, Swedish Defence Research Agency (FOI), Sweden
- WA6b.3 Single-stage 2-way fp4 Merge Sort Using Hardware Carry Chain Logic 11:05 AM
Robert Kent, Marios Pattichis, University of New Mexico, United States

Session WA7b Differentiable modeling

Chair: *Ramani Duraiswami, University of Maryland, United States*

- WA7b.1 Differentiable Microphone Array Design and Processing 10:15 AM
Ramani Duraiswami, Siminfar Samakoush Galougah, Pranav Pulijala, University of Maryland, United States
- WA7b.2 Differentiating a Biophysically Plausible Model of the Auditory System 10:40 AM
Malcolm Slaney, International Computer Science Institute, United States; Matthew Fitzgerald, Stanford, United States
- WA7b.3 Next-generation Brain Digital Twin Inference using Differentiable MRI simulations 11:05 AM
Razvan Marinescu, UC Santa Cruz, United States

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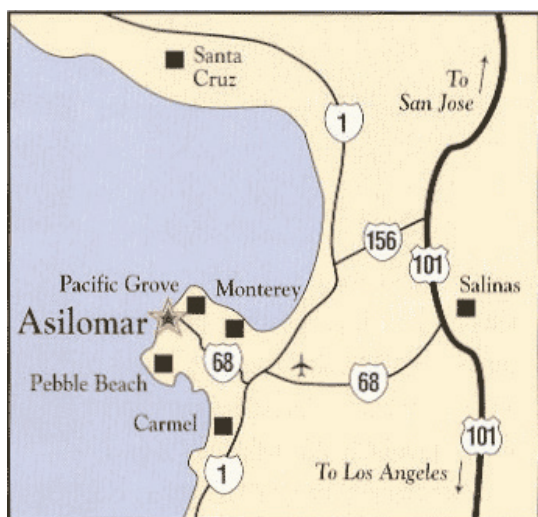
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