

ID	Paper Title
Poster Session I: July 9, 10:30 AM - 12:30 PM	
5	Track-Before-Detect Labeled Multi-Bernoulli Filter for Multi-Target Bearing-Only Tracking using an Autonomous Underwater Vehicle
20	Enhanced Jamming Suppression in Colocated MIMO Radar with Fluid Antenna Array
35	Adaptive Factor Analysis for Direction Finding in Colored Disturbance
42	Antenna Placement in Compressive Sensing Radar using Binary Optimization
46	Subspace Tracking with Dynamical Models on the Grassmannian
93	Multi-Tier Structured Array for Sensing Pilot Design in Integrated Sensing and Communication
94	Small-Noise Sensitivity Analysis of Locating Pulses in the Presence of Adversarial Perturbation
36	Calibration of Polarimetric Antenna Arrays Using Neural Networks
30	Radar Anti-jamming Strategy Learning via Domain-knowledge Enhanced Online Convex Optimization
50	Frequency-Switching Sparse Arrays
63	Direct Position Determination of Locally Scattered Sources Using Generalized Array Manifold Model
97	Analysis of Cross Terms in Toeplitz Rectified Sample Covariance Matrices
12	Analysis of a Fixed Point Iteration Algorithm for TOA Localization
24	Robust NLOS Error Mitigation for Hybrid AOA and TOA Localization
57	Semi-Passive RIS-Aided Sequential Channel Estimation and Prediction
68	Block Sparsity Based Channel Estimation for IRS-Assisted mmWave MIMO Systems
108	Low Complexity Beam Domain Processing for Autoencoder Based CSI Compression
14	Structured Multi-Antenna Grassmannian Constellations for Noncoherent Communications
23	Distributed UAV Beamforming using Graph Recurrent Neural Networks
96	Experimental Evaluation of a Null-Steered Performance Weighted Blended Beamformer
Poster Session II: July 9, 4:00 PM - 6:00 PM	
34	Lower Bounds on Non-Bayesian Parameter Estimation Errors under Reparameterization
107	High-Dimensional Constrained Huber Regression
18	Distributed Sparse Subspace Clustering by K-Means Subspace Fusion
41	Deep-Learning-based Spatial Acoustic Properties Recovery from Incomplete Signals
47	A Machine-Learning-based approach to Direction-of-arrival Sectorization using Spherical Microphone Array
65	Tail-STELA for Fast Signal Recovery via Basis Pursuit
111	Closed-Loop Training for Projected GAN
112	How does promoting the minority fraction affect generalization? A theoretical study of one-hidden-layer neural network on group imbalance
113	Machine-Learning-Assisted Leak Detection Using Distributed Temperature and Acoustic Sensors
115	One-bit spectrum sensing for cognitive radio
116	Low-Complexity Channel Estimation for Massive MIMO Systems With Decentralized Baseband Processing

Special Session: Advances in Optimization for Machine Learning and Signal Processing	16	CI-based QoS-Constrained Transmit Signal Design for DFRC Systems with One-Bit DACs
	48	A Stochastic Algorithm for Sinkhorn Distance-Regularized Distributionally Robust Optimization
	70	Two-way Sparse Reduced-Rank Regression via Scaled Gradient Descent with Hard Thresholding
	71	Learning on Transformers is Provable Low-Rank and Sparse: A One-layer Analysis
	79	Adaptive Bayesian Optimization for Online Management in Mobile Edge Computing
	87	Building Large Models from Small Distributed Models: A Layer Matching Approach
	110	Byzantine-resilient Bilevel Federated Learning
Poster Session III: July 10, 10:30 AM - 12:30 PM		
Special Session: Advances in Low- Resolution Signal Processing	38	HDR Imaging with One-Bit Quantization
	40	Overdemodulation-Aided One-bit DoA Estimation
	60	Channel Estimation in Low-Resolution Near-Field Massive MIMO Systems
	67	Covariance Matrix Rectification Based DOA Estimation With Mixed-Resolution Quantization
Special Session: Automotive Radar Signal Processing for Autonomous Vehicle	3	MLS-based Transmitter Orthogonality Analysis in MIMO-PMCW Automotive Radar Systems
	31	Enhanced Automotive Radar Collaborative Sensing By Exploiting Constructive Interference
	80	Comparison of single frame classification with Micro-Doppler classification of VRUs for traffic radar
	85	Near-field Automotive Joint Radar-Communications With Spatial Path Index Modulation
Special Session: Exploiting Sparsity in Sensor Arrays and Signal Waveforms	13	Atomic norm denoising for multi-frequency-snapshot DOA estimation
	15	Weight-Constrained Nested Arrays With $w(1)=w(2)=0$ For Reduced Mutual Coupling
	27	Receiver Antenna Allocation for Joint Sensing and Communications
	55	High-Resolution DOA Estimation Using Single-Snapshot MUSIC for Automotive Radar with Mixed ADC Allocations
	56	Monte Carlo Source Enumeration for Sparse Arrays
	61	Sparse Array Design and Beamforming for Integrated Sensing and Communication Systems
	64	Blind Phase-Offset Estimation in Sparse Partly Calibrated Arrays
	72	Deep Unrolling-Based One-Bit DoA Estimation
	83	Identical Partitioning of Consecutive Integer Set
	89	Optimal Ratio Between Coherent and Orthogonal Signals in Sparse MIMO Radar
99	DynaPA: Dynamic Power Allocation for Improved Exploration-Exploitation in Active Sensing	
109	Source Number Estimation for Iterative Coarray Beamforming With Partially Augmentable Arrays	
Poster Session IV: July 10, 4:00 PM - 6:00 PM		
Special Session: Learning and Optimization on Graphs	21	DIFFERENTIAL ERROR FEEDBACK FOR COMMUNICATION-EFFICIENT DECENTRALIZED OPTIMIZATION
	44	Block Successive Convex Approximation for Concomitant Linear DAG Estimation
	45	Robust Meta-Learning over Graphs with Graph Neural Networks
	52	An Efficient Optimization Framework for Learning General Signed Graphs from Smooth Signals
	54	Distributed Sparse Covariance Matrix Estimation
	74	Unrolling Decentralized Stochastic Frank Wolfe Algorithm
	91	Peer-to-Peer Model-Agnostic Meta-Learning

Special Session: Learning with Few Labels	58	Improved Identifiability and Sample Complexity Analysis of Complete Dictionary Learning
	73	Labeling Sequential Data from Noisy Annotations
	75	Revisiting semi-supervised training objectives for differentiable particle filters
	82	Active labeling for online ensemble learning
	101	A Graph Autoencoder Approach to Crowdsourcing
Special Session: Recent Advances on Graph Signal Processing	49	Filtering as Rewiring for Bias Mitigation on Graphs
	59	Gaussian Processes for Predicting Simplicial Closure
	76	Learning the Topology of a Simplicial Complex Using Simplicial Signals: A Greedy Approach
	77	On Detecting Low-pass Graph Signals under Partial Observations
	88	A Federated Learning Approach for Graph Convolutional Neural Networks
	100	Sampling in the Graph Signal Processing Companion Model
Poster Session V: July 11, 10:30 AM - 12:30 PM		
Special Session: Nonconvex and Nonsmooth Methods for Ill-Posed Inverse Problems	7	ADMM for ℓ_0 Factor Analysis
	10	A Decentralised Asynchronous Optimisation Algorithm with an Application to Phase Retrieval
	19	Decentralized Non-Smooth Optimization Over the Stiefel Manifold
	28	A Preconditioned Fast Iterative Hard Thresholding Algorithm for Spectrally Sparse Signal Reconstruction
	33	Linear Convergence of Iteratively Reweighted Least Squares for Nuclear Norm Minimization
	66	ADMM-Based Outage Constrained MIMO-ISAC Hybrid Beamforming Design
	103	Variable Selection for Max-Affine Regression via Sparse Gradient Descent
Special Session: Near-Field Signal Processing for Communications and Sensing	4	Low-Complexity Near-Field Channel Estimation for Hybrid RIS Assisted Systems
	11	Near-Field ISAC: Performance Analysis and Rate Region Characterization
	22	Near or far: On determining the appropriate channel estimation strategy in cross-field communication
	69	Geometry-Aided Near-Field MIMO Communications via Forward-Backward Beamformer Training
Special Session: Structured Matrix and Tensor Factorization	29	HyperQUEEN-MF: Hyperspectral Quantum Deep Network with Multi-Scale Feature Fusion For Quantum Image Super-Resolution
	43	System Modeling of Human Body Based on Multi-channel Wrist Pulse Measurements
	81	Translation Identifiability-Guided Unsupervised Cross-Platform Super-Resolution for OCT Images
	102	Frank-Wolfe Algorithm for Simplicial and Nonnegative Component Analysis
	104	Continual Learning in Convolutional Neural Networks with Tensor Rank Updates