

Asilomar Conference on Signals, Systems, and Computers — Schedule: Sunday, October 25 – Wednesday, October 28, 2026

Session codes: Track letter – SS (special session) / RS (regular oral session) / PS (poster session) – number

	Fred Farr	Kiln	Toyon	Heather	Acacia	Chapel (Mon) Oak Shelter (Tue–Wed)	Scripps	Merrill Hall
	Oral Presentations	Oral Presentations	Oral Presentations	Oral Presentations	Oral Presentations	Oral Presentations	Oral Presentations	Poster Presentations
SUN – PM 3:00 – 5:00	Student Paper Contest – Merrill Hall							
SUN – PM 5:15 – 6:30	Welcome Message from the Chairs & Overview Talk by Prof. Sanmi Koyejo: “What Are We Estimating When We Evaluate AI?” – Chapel							
MON – AM 8:15 – 9:55	A-SS-1 Predictive Intelligence for Next Generation Wireless Networks	A-SS-3 Channel Charting	F-SS-1 Brain and Behavioral Dynamics Through Biomedical Signals	D-SS-2 Generative AI for Graphs	F-SS-2 Fast MRI Potpourri	G-SS-1 Implementation-Aware Decoder Architectures for Modern Coding Paradigms	H-SS-1 Physics-Aware Computational Imaging Across Extreme Sensing Regimes	B-PS-1: Next-Generation MIMO, RIS, and Adaptive Beamforming Systems C-PS-1: Graph Learning, Signal Processing, and Networked Applications
MON – AM 10:15 – 11:55	B-SS-1 Near-Field MIMO: From Fundamentals to 6G Realization	B-SS-2 Recent Advances in Signal Processing for ISAC	C-SS-1 Learning over Networks	D-SS-3 Generative Modeling for Inverse Problems	E-SS-2 Advances in Co-Array Processing for DoA Estimation	G-SS-2 Emerging Technologies for Artificial Intelligence Systems	D-SS-4 Modern approaches to experimental design	A-PS-1: Advances in Satcom and ISAC A-PS-2: Communication and Coding Techniques
MON – PM 1:30 – 3:10	Message from the Chairs, Student Paper Contest Results & Plenary Talk by Prof. Richard Baraniuk: “Learning from Collapse: Self-Consuming Loops in AI and the Humans Who Feed Them” – Chapel							
MON – PM 3:30 – 5:00	A-SS-4 Physics-Consistent Models for Next-Generation Communication Systems	B-SS-3 XL MIMO Systems	C-SS-3 Topological Signal Processing and Learning	D-RS-1 Estimation and Inference	E-RS-1 DOA Estimation	H-SS-7 AI and Signal Processing Education	H-SS-2 Moving Off the Grid: Non-Gridded Learning Representations for Efficient Image and Video	G-PS-1: Specialized Hardware Architectures and Computer Arithmetic F-PS-1: Biomedical Signal Processing: Methods and Applications
MON – PM 5:00 – 9:00	Offsite Banquet							
TUE – AM 8:15 – 9:55	A-RS-1 Physical-Layer Security and Covert Communications	B-SS-4 New Paradigms for Ultra Wide-Band and Extra-Large Antenna Arrays	C-SS-4 Networked Neuroscience	H-SS-4 Advances in Learning-based Image Processing	E-SS-3 Tensor-Based Array Signal Processing	F-SS-3 Multiscale Analysis of Neural Signals	H-SS-5 AI for Medical Imaging: From Spatial and Acoustic Sensing to Clinical Insight	D-PS-1: Statistical Estimation, Detection, and Inference D-PS-2: Optimization, Sparsity, and High-Dimensional Learning
TUE – AM 10:15 – 11:55	A-SS-5 Advanced resource allocation, positioning and swarm intelligence in 6G NTN	B-SS-5 AI-driven and Digital Twin-enabled MIMO Communications	C-SS-5 Bayesian Learning and Inference on Graphs	D-SS-5 Information, Learning, and Genomics	A-SS-8 Resilience-by-Design in Wireless and Networked Systems	G-SS-3 Efficient Architectures for Foundation Model Deployment in Resource-Constrained Systems	H-SS-6 Recent theoretical and algorithmic advances in computational imaging	E-SS-1: Extremely Large Aperture Arrays (ELAAs) and Near-Field Signal Processing E-PS-1: Array Processing
TUE – PM 1:30 – 3:10	A-SS-6 Machine Learning for Communications	B-SS-6 Analog Signal Processing with MIMO and Metasurfaces	C-RS-1 Topology, Dynamics, and Nonlinear Interactions	E-SS-4 Learning and Inference over Sensor-Driven Networks	E-SS-5 Sensing and Localization in the networked Systems	G-SS-4 Security-Aware Architectures for Embedded Systems Against Side-Channel Attacks	D-SS-6 Learning Compact Representations: Theory and Applications	D-PS-3: Deep Learning, Bandits, and Applications H-PS-1: Speech, Image, and Video Processing
TUE – PM 3:30 – 5:35	A-SS-7 Spectrum Frontiers	B-SS-7 Revisiting MIMO for 6G Systems	C-SS-2 Causality in Graph Learning	H-SS-8 Learning and Sensing over the Years	D-RS-2 Learning with Limited Supervision	F-SS-4 Task-driven computational imaging: Redefining Image Quality Assessment and Optimization in the Era of AI	D-SS-1 Neural representations for dynamical physical systems	A-PS-3: Intelligent, Secure, and Reconfigurable Wireless Systems
WED – AM 8:15 – 9:55	A-RS-2 PHY- and MAC-Layer Techniques	B-SS-8 Applications of Machine Learning for Future Wireless Networks	C-SS-6 Modern Machine Learning and Optimization for Wireless Networks	D-SS-8 Probabilistic Methods for Machine Learning and Signal Processing	E-SS-6 Learning-Enabled Signal Processing, Communication and Sensing	D-SS-9 Compression and sparsity in deep learning optimization	A-SS-9 AI-Native Integrated Communication and Computing in 6G Networks	
WED – AM 10:15 – 11:30	A-SS-2 Information Theory and Signal Processing of ISAC Systems	E-RS-2 ML for Array Processing	C-SS-7 New Directions in Decentralized Learning	D-SS-7 Behavioral Control in Foundation Models via First-Principles Approaches	F-RS-1 Emerging Computational Methods for Biomedical Imaging	G-RS-1 Domain-Specific Logic and Hardware Acceleration	H-SS-3 Differentiable modeling	

Tracks: A Communication Systems · B MIMO Communications and Signal Processing · C Networks and Graphs · D Adaptive Systems, Machine Learning, Data Analytics · E Array Processing and Multisensor Systems · F Biomedical Signal and Image Processing · G Architectures and Implementation · H Speech, Image, and Video Processing