

High-Performance and Low-Cost Array Signal Processing: New Theories and Best Practices in Emerging Applications (HiPeCASP)

Detailed Program

Date: April 07, 2025 (Monday)

Location: (TBD)

Title	Speakers (or Authors)	Category	Time	Duration (minutes)	Chair
(TBD)	Rajan Narasimha (Texas Instruments) Sandeep Rao (Texas Instruments)	Keynote	9:30 – 10:15	45	Chun-Lin Liu Robin Rajamäki
(TBD)	(TBD)	Keynote	10:15 – 11:00	45	
Tea/Coffee Break			11:00 – 11:30	30	
Class-Incremental Learning for Sound Event Localization and Detection	Ruchi Pandey (IIIT Hyderabad)* Manjunath Mulimani (Tampere University) Archontis Politis (Tampere University) Annamaria Mesaros (Tampere University)	Lightning Talk	11:30 – 11:33	3	Chun-Lin Liu Robin Rajamäki
Adaptive Waveform Design for Cognitive MIMO ISAC	Dor Patel (Ben Gurion University of the Negev) Joseph Tabrikian (Ben Gurion University)* Igal Bilik (Ben Gurion University of the Negev)	Lightning Talk	11:33 – 11:36	3	
Near-Field WPT Using Multisine Phase Alignment and Massive Antenna Array at Extreme Frequencies	Ayush Dwivedi (Tampere University)* Taneli Riihonen (Tampere University)	Lightning Talk	11:36 – 11:39	3	
GENERALIZED CONSTRUCTIONS OF WEIGHT-CONSTRAINED SPARSE ARRAYS	Pranav Kulkarni (California Institute of Technology)* Dr.P P Vaidyanathan (California Institute of Technology)	Lightning Talk	11:39 – 11:42	3	
Low-Complexity Algorithms for Multichannel Spectral Super-Resolution	Xunmeng Wu (Xi'an Jiaotong University)* Zai Yang (Xi'an Jiaotong University) Zongben Xu (XJTU)	Lightning Talk	11:42 – 11:45	3	
Robust Phase Retrieval from Quantized and Noisy Measurements	Yihong Gao (The University of Hong Kong)* Luteng Zhu (Shandong University) Zhuoyang An (Beijing Information Science and Technology University) Mingjie Shao (Shandong University)	Lightning Talk	11:45 – 11:48	3	
(TBD)		Poster	11:48 – 13:00	72	Chun-Lin Liu Robin Rajamäki