THE 12th IEEE SENSOR ARRAY AND MULTICHANNEL SIGNAL PROCESSING WORKSHOP

July 8 - 11, 2024 , Corvallis, Oregon, USA

Call for Papers

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Important Dates

Paper Submission Deadline
January 8th, 2024

Notification of Acceptance
March 30th, 2024

Final Manuscript Submission
April 30th, 2024

Advance Registration Deadline
April 30th, 2024

Technical Program

The IEEE SAM Workshop is the flagship workshop under the IEEE Signal Processing Society (SPS) Sensor Array and Multichannel technical committee (SAM-TC). The organizing committee invites the international community to contribute with state-of-the-art developments in the field. SAM 2024 will feature plenary talks by leading researchers in the field as well as poster and oral sessions with presentations by the participants.

Welcome to Corvallis, Oregon!

Corvallis, Oregon, nestled in the picturesque Willamette Valley, is a captivating city renowned for its natural beauty and vibrant community. Home to Oregon State University, Corvallis combines the academic energy of a college town with the charm of a thriving cultural scene. With the stunning Cascade Range as its backdrop and the peaceful Willamette River meandering through its heart, Corvallis offers a scenic haven for both residents and visitors. This city places a strong emphasis on sustainability and innovation, making it a hub for cutting-edge research and technology. Its lively downtown area boasts charming shops, delectable eateries, and a bustling farmers market, inviting everyone to explore and enjoy. Corvallis welcomes you to experience its warm hospitality and abundant outdoor adventures. (courtesy: ChatGPT)

Research Areas

Authors are invited to submit contributions in the following areas:

- Adaptive beamforming
- Array processing for biomedical applications
- Array processing for communications
- Array processing for radio astronomy
- Array processing for seismic monitoring
- Artificial intelligence in array processing
- Blind source separation and channel identification
- Computational and optimization techniques
- Compressive sensing and sparsity-based signal processing
- Detection and estimation
- Direction-of-arrival estimation
- Distributed and adaptive signal processing
- Intelligent systems and knowledge-based signal processing
- Microphone and loudspeaker array applications
- MIMO radar
- Multi-antenna systems: multiuser MIMO, massive MIMO and space-time coding
- Multi-channel imaging and hyperspectral processing
- Multi-sensor processing for smart grid and energy
- Non-Gaussian, nonlinear, and non-stationary models
- Performance evaluations with experimental data
- Radar and sonar array processing
- Sensor networks
- Signal processing for The Internet of Things
- Source localization, classification and tracking
- Synthetic aperture techniques
- Space-time adaptive processing
- Statistical modelling for sensor arrays
- Tensor signal processing
- Waveform diverse sensors and systems
- Machine learning for sensing, array processing, and communications

Submission of Papers – Full-length papers with 4 pages of content and 1 extra page only for references should be electronically submitted.

Submission of special session and tutorial proposals – details will be found at the workshop website (*coming soon*).