# **2019 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA 2019)** 20-23 October, 2019



The 2019 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA 2019) will be held at the Mohonk Mountain House in New Paltz, New York, and is supported by the Audio and Acoustic Signal Processing technical committee of the IEEE Signal Processing Society. The objective of this workshop is to provide an informal environment for the discussion of problems in audio, acoustics and signal processing techniques leading to novel solutions. Technical sessions will be scheduled throughout the day. Afternoons will be left free for informal meetings among workshop participants. Papers describing original research and new concepts are solicited for technical sessions on, but not limited to, the following topics:

## Acoustic Signal Processing

- Source separation: single- and multi-microphone techniques
- Acoustic source localization and tracking
- Signal enhancement: dereverberation, noise reduction, echo reduction
- Microphone and loudspeaker array processing
- Acoustic sensor networks: distributed algorithms, synchronization
- Acoustic scene analysis: event detection and classification
- Room acoustics: analysis, modeling and simulation

## Audio and Music Signal Processing

- Content-based music retrieval: fingerprinting, matching, cover song retrieval
- Musical signal analysis: segmentation, classification, transcription
- Music signal synthesis: waveforms, instrument models, singing
- Music separation: direct-ambient decomposition, vocal and instruments
- Audio effects: artificial reverberation, amplifier modeling
- Upmixing and downmixing

## Audio and Speech Coding

- Waveform and parametric coding
- Spatial audio coding
- Sparse representations
- Low-delay audio and speech coding
- Digital rights

## **Hearing and Perception**

- Hearing aids
- Computational auditory scene analysis
- Auditory perception and spatial hearing
- Speech and audio quality assessment
- Speech intelligibility measures and prediction

# Important dates

- Paper submission deadline: April 18, 2019
- Notification of acceptance: June 25, 2019
- Camera ready: July 29, 2019
- Early registration until August 18, 2019

www.waspaa.com Mohonk Mountain House New Paltz, New York, USA

## Workshop committee:

### **General Chairs:**

Augusto Sarti Politecnico di Milano, Italy Boaz Rafaely Ben-Gurion University, Israel

## **Technical Program Chairs**

Craig Jin University of Sidney, Australia Dorothea Kolossa Ruhr-Universität Bochum, Germany

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