2013 IEEE Workshop on

Applications of Signal Processing to Audio and Acoustics



The 2013 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA'13) 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 and 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
- Source localization
- Signal enhancement: Dereverberation, noise reduction, echo reduction
- Microphone and loudspeaker array processing
- Acoustic sensor networks: Distributed algorithms, synchronisation
- Acoustic scene analysis: Event detection and classification
- Room acoustics

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, guitar amplifier modeling
- Upmixing and downmixing

Audio and Speech Coding

- Waveform coding and parameter 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
- Spatial hearing
- Speech and audio quality assessment



Workshop Committee

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Local Arrangements Chair

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For more information contact

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Important Dates

Submission of four-page paper May 17, 2013

Notification of acceptance July 19, 2013

Early registration until August 31, 2013

Workshop October 20-23, 2013



