IEEE Signal Processing Society ®

Call for Papers

2009 IEEE Workshop on

Applications of Signal Processing to Audio and Acoustics

Mohonk Mountain House
New Paltz, New York
October 18-21, 2009
http://www.waspaa2009.com

IEEE

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The 2009 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA'09) will be held at the Mohonk Mountain House in New Paltz, New York, and is sponsored by the Audio & Electroacoustics 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 the 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 Scenes
- Scene Analysis:
  Source Localization, Source Separation, Room Acoustics
- Signal Enhancement:
  Echo Cancellation, Dereverberation, Noise Reduction, Restoration
- Multichannel Signal Processing for Audio Acquisition and Reproduction
- Microphone Arrays
- Eigenbeamforming
- Virtual Acoustics via Loudspeakers or Headphones

Audio Coding
- Waveform Coding and Parameter Coding
- Spatial Audio Coding
- Internet Audio
- Musical Signal Analysis:
  Segmentation, Classification, Transcription
- Digital Rights
- Mobile Devices

Hearing and Perception
- Auditory Perception, Spatial Hearing, Quality Assessment
- Hearing Aids

Music
- Signal Analysis and Synthesis Tools
- Creation of Musical Sounds:
  Waveforms, Instrument Models, Singing
- MEMS Technologies for Signal Pick-up

Submission of four-page paper **April 15, 2009**	**Notification of acceptance** **June 26, 2009**	**Early registration until** **September 1, 2009**