



**Journal of the
AUDIO ENGINEERING SOCIETY
CALL for PAPERS**



**SPECIAL ISSUE ON
INTELLIGENT AUDIO PROCESSING,
SEMANTICS, AND INTERACTION**

Guest Editors

George M. Kalliris, Aristotle University, Greece
Charalampos A. Dimoulas, Aristotle University, Greece
Christian Uhle, Fraunhofer IIS, Germany

Intelligent audio processing holds a key role in the upcoming trends toward the transition to semantic services (i.e. Web 3.0). Intelligent processing can facilitate audio production automation, machine-assisted speech and music synthesis, sound effects generation and assisted sound design, recommendation systems, and others. Typical examples of intelligent audio processing methods are audio and music information retrieval, audiovisual matching and alignment, content validation and authentication, sound-based multimedia forensics, semantically enhanced Human-Machine Interaction (HMI), emotion recognition, and sentiment analysis. They incorporate recognition, detection, and classification using various data representations and modalities to deduce information about the content on a semantically high level to support the consumer in identifying, organizing, exploring and interacting with audio content.

This special issue was motivated by the success of the Audio Mostly 2015 (AM15) conference that took place 7-9 October 2015 in Thessaloniki, Greece, under the theme “Sound, Semantics and Social Interaction.” The current special issue invites papers from researchers covering the numerous interdisciplinary areas between acoustics, signal processing, machine learning, multimedia semantics and multimodal interaction, where audio and intelligent audio processing hold a key role. Original papers presenting unpublished work related to research in, but not restricted to, the topics listed below are invited for consideration in this special issue, including significantly extended and updated research that was presented in AM15.

PROPOSED TOPICS

Intelligent audio-music production and interaction	Semantically enhanced social sharing of audio and music
Assisted sound effects generation/automation	Music and audio recommendation systems
Audio recognition and semantic conceptualization	Audio content validation and authentication
Speech recognition and synthesis	Audio behavioral and sentiment analysis
Multimodal interactive applications	Context-aware and emotional audio cognitive systems
Audio in mobile systems and in gaming interaction	Audio and Music Information Retrieval
Spatial/3D audio interaction in films and games	Content summarization, documentation, and management
Collaborative audio processing	Audio-driven multimedia matching and alignment

AUTHOR GUIDELINES

Submit complete 4- to 8-page papers by February 15, 2016, extended to Feb. 29. All submissions will be peer-reviewed according to standard AES review procedures. Authors who wish to submit already published “Audio Mostly 2015” papers and AES conference papers relating to this topic may do so provided that they are revised and expanded as stated in our Author Guidelines found at: <http://www.aes.org/journal/authors/guidelines/>. Papers should be submitted online at: <http://www.aes.org/journal/submit/>. When submitting a paper, please do so under the article category “Special Issue (Intelligent Audio Processing)” rather than Research Paper or Engineering Report. It is aimed to publish this special issue in July/August 2016, and a strict reviewing and revision schedule will be introduced to this end, although this date is subject to possible change.

For more information contact

Guest Editors

George M. Kalliris <gkal@jour.auth.gr>
Charalampos A. Dimoulas <babis@eng.auth.gr>
Christian Uhle <christian.uhle@iis.fraunhofer.de>