Call for Papers

The 18th **International Workshop on Acoustic Signal Enhancement (IWAENC 2024)** will be held in the Music House (Musikkens Hus) in Aalborg, Denmark from Sept. 9 – 12, 2024. Since its first edition held in Berlin, Germany, in September 1989, it evolved into one of the leading workshops for theoretical and practical aspects related to speech and acoustic signal acquisition and processing. At its technical core, the three-day program offers keynote lectures, oral and poster presentations, and demonstrations.

Scope

This workshop focuses on new methods and systems for enhancing and processing speech and audio signals. Applications include mobile and ambient communication, audio-visual conferencing systems, voice control systems, hearing devices, interactive TV, robot audition, smart acoustic environments, and emerging applications in audio and acoustic signal processing.

Topics

- Acoustic echo and feedback suppression
- Noise reduction
- Microphone array processing
- Source localization and tracking
- Source separation
- Dereverberation
- Active noise control
- Robot audition
- Speech and audio coding
- Acoustic sensor networks
- Acoustic event detection and scene classification
- Modeling, analysis and synthesis of acoustic environments
- Machine learning algorithms for acoustic signal processing
- Auditory modeling and hearing instruments
- Datasets for speech and audio
- Speech intelligibility enhancement
- Quality and intelligibility assessment
- Spatial audio recording and reproduction
- New and emerging topics in speech and audio processing

Special Sessions

The Organizing Committee solicits proposals for special sessions within the technical scope of the workshop. Special session proposals should include the session title, rationale, titles and abstracts of at least 6 invited papers as well as a short biography of the special session organizer(s) including the affiliation, address, and email.
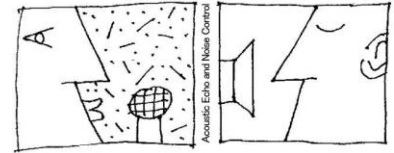
Demonstrations

Besides the regular paper presentations, a separate demonstration session is planned. For a contribution to this session, a brief description of the demonstration should be submitted via the call for demonstrations page. The description will not be included in the workshop proceedings.

Best Student Paper Award

The IWAENC Technical Committee will award a "Best Student Paper Award". The selection will be based on originality, scientific merit, and quality of writing and presentation. The paper must be presented by the candidate student to qualify for the award.

Important Deadlines

Submission of special session proposals	~~February 14~~ **February 28**, 2024
Submission of demonstration proposals	**May 30, 2024**
Submission of regular papers	~~May 1~~ **May 8**, 2024
Revision of uploaded papers	~~May 8~~ **May 15**, 2024
Notification of acceptance	**July 3, 2024**
Submission of camera-ready papers	**July 24, 2024**
Early registrations	**July 24, 2024**

General Chair
- Mads Græsbøll Christensen (Aalborg University)

Technical Program Chairs
- Toon van Waterschoot (KU Leuven)
- Ina Kodrasi (Idiap Research Institute)

Industry Liaison Chairs
- Jan Skoglund (Google)
- Jesper B. Boldt (GN Hearing)

Plenary Chair
- Emanuel Habets (Friedrich-Alexander-Universität Erlangen-Nürnberg)

Special Session Chairs
- Richard Heusdens (Delft University of Technology)
- Maximo Cobos (Universitat de Valencia)

Award Chairs
- Jingdong Chen (Northwestern Polytechnical University)
- Sharon Gannot (Bar-Ilan University)

Publications & Publicity Chair
- Jesper Rindom Jensen (Aalborg University)

Overseas Liaisons
- Shoko Araki (NTT Communication Science Laboratories)
- Mike Mandel (City University of New York)

Demonstrations Chairs
- Nilesh Madhu (Ghent University)
- Daniele Giacobello (Apple)

Student Activities Chairs
- Filip Elvander (Aalto University)

Finance & Registration Chair
- Johnny Kjær Jakobsen (Aalborg University)

Local Arrangement Chair
- Hanne Munk Madsen (Aalborg University)
- Jesper Rindom Jensen (Aalborg University)