Call for Papers

The 17th **International Workshop on Acoustic Signal Enhancement (IWAENC 2022)** will be held in the Welcome Congress Hotel Bamberg from Sept. 5 – 8, 2022. 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.

We are closely monitoring the development of the corona pandemic to assure that all participants can enjoy IWAENC 2022 with the traditional familiar atmosphere of this workshop and without safety concerns. We also plan for options to attend remotely as far as recommended by local and international authorities.

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
- 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.
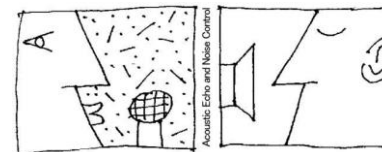
Demonstrations

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 to submission@iwaenc2022.org. 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 25, 2022**
Submission of demonstration proposals	**May 2, 2022**
Submission of regular papers	**May 2, 2022**
Revision of uploaded papers	**May 9, 2022**
Notification of acceptance	**July 1, 2022**
Submission of camera-ready papers	**July 22, 2022**
Early registrations	**July 22, 2022**

General Chair
- Walter Kellermann (Friedrich-Alexander University Erlangen-Nürnberg)

Honorary Chair
- Eberhard Hänsler (TU Darmstadt)

Technical Program Chairs
- Simon Doclo (University of Oldenburg)
- Emanuël Habets (Friedrich-Alexander University Erlangen-Nürnberg)

Industry Liaison Chairs
- Tao Zhang (Amazon)
- Jan Skoglund (Google)

Plenary Chairs
- Patrick Naylor (Imperial College London)
- Tim Fingscheidt (Technische Universität Braunschweig)

Special Session Chair
- Sharon Gannot (Bar-Ilan University)

Award Chairs
- Rainer Martin (Ruhr University Bochum)
- Peter Jax (RWTH Aachen University)

Publicity Chair
- Dorothea Kolossa (Ruhr University Bochum)

Overseas Liaisons
- Shoji Makino (Waseda University, Japan)
- Ivan Tashev (Microsoft Research)

Publications Chair
- Heinrich Löllmann (Friedrich-Alexander University Erlangen-Nürnberg)

Demonstrations Chairs
- Fabian Küch (Fraunhofer Institute for Integrated Circuits IIS)
- Henning Puder (Sivantos)

Finance & Registration Chair
- Silke Kenzler (Kenzler Conference Management)

Local Arrangement Chairs
- Silke Kenzler (Kenzler Conference Management)
- Heinrich Löllmann (Friedrich-Alexander University Erlangen-Nürnberg)

Website
- Heinrich Löllmann (Friedrich-Alexander University Erlangen-Nürnberg)
- Andreas Rex (Friedrich-Alexander University Erlangen-Nürnberg)

Secretary
- Silke Kenzler (Kenzler Conference Management)