

Call for Contributions

1. Inform the Chair: with the title of your contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SIGNAL+2025+Special>

Please select Track Preference as **BIOSIG**

3. Note: *For 2025, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

BIOSIG: Advances in Biomedical Signal Processing

Chairs

Assoc Prof. Ahmad Karfoul, École Supérieure d'Ingénieurs de Rennes (ESIR), Laboratoire Traitement du Signal et de l'Image (LTSI) – INSERM U1099, Université de Rennes, France

ahmad.karfoul@univ-rennes.fr

Res. Eng. Amar Kachenoura, Laboratoire Traitement du Signal et de l'Image (LTSI) – INSERM U1099, Université de Rennes, France

amar.kachenoura@univ-rennes.fr

along with

SIGNAL 2025, The Tenth International Conference on Advances in Signal, Image and Video Processing

<https://www.aria.org/conferences2025/SIGNAL25.html>

March 9 - 13, 2025 - Lisbon, Portugal

The field of biomedical signal processing plays a pivotal role in advancing healthcare technologies by focusing on the acquisition, analysis, and interpretation of complex electrophysiological signals. This field enhances clinicians' understanding of complex physiological systems, enabling more accurate diagnoses, disease prediction, and longitudinal monitoring of patient health.

This special session aims to showcase cutting-edge methodologies, including advances in signal processing, machine learning, neural networks, and wearable technologies, providing an international platform for researchers and professionals to share their latest findings and innovative ideas approaches in tackling various brain and heart-related diseases, such as epilepsy, Parkinson's, Alzheimer's, heart failure, atrial fibrillation, and more.

Prospective authors are invited to submit original papers on topics including, but not limited to

- Advanced signal processing techniques for analyzing electrophysiological signals such as ECG, EEG.
- AI-driven approaches for diagnosing and predicting medical conditions based on mono/multi channels electrophysiological data.
- Conception of performant pipelines that can be embedded in wearable devices for continuous hospital/home follow-up.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Important Deadlines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: Jan 18, 2025

Notification: Feb 7, 2025

Registration: Feb 20, 2025

Camera-ready: Feb 20, 2025

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chairs.

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the Open Access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=SIGAL+2025+Special>

Please select Track Preference as **BIOSIG**

Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

Contact

Chair

Ahmad Karfoul: ahmad.karfoul@univ-rennes.fr

Amar Kachenoura: amar.kachenoura@univ-rennes.fr

Logistics (Steve McGuire): steve@iaia.org