# Special Issue

# Advances in Wearable Electroencephalography Sensor Technology

## Message from the Guest Editors

Electroencephalography (EEG) has long been a cornerstone of neurophysiological monitoring and brain–computer interface (BCI) systems. With the rise of wearable technologies and the demand for continuous real-world monitoring, wearable EEG sensors are undergoing rapid innovation. Advances in materials science, electronics, signal processing, and AI are enabling the development of more compact, comfortable, and high-resolution EEG systems suitable for ambulatory use across healthcare, neuroscience, cognitive research, and consumer applications. We particularly welcome contributions exploring novel sensor designs, EEG integration with wireless platforms, energy-efficient signal acquisition, artifact reduction, real-time analysis, and diverse applications in clinical and non-clinical settings. We especially encourage submissions focused on the development of non-obtrusive, user-friendly, and ecologically valid EEG devices designed for non-expert populations, such as elderly individuals, to support widespread and inclusive adoption.

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## Deadline for manuscript submissions

1 December 2025

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*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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