Special Issue

Advances in Biosignal Sensing and Signal Processing

Message from the Guest Editor

Recent advancements in biosignal sensing technologies and signal processing methodologies have substantially expanded the scope of applications in healthcare, biomedical engineering, and human–machine interaction. This Special Issue is dedicated to disseminating high-quality, original research that addresses innovations in the acquisition, processing, and interpretation of physiological signals, including but not limited to electroencephalography (EEG), electrocardiography (ECG), electromyography (EMG), respiratory activity, and multimodal biometric measurements. Particular emphasis will be placed on studies presenting novel sensor architectures, wearable and implantable device designs, and advanced computational algorithms for feature extraction, pattern recognition, and classification. Topics of interest further include noise suppression, motion artifact mitigation, energy-efficient signal acquisition, and real-time analytical frameworks. Potential topics include but are not limited to:

- biosignal sensing
- signal processing
- wearable devices
- physiological monitoring
- noise reduction
- machine learning
- multimodal biometrics
- edge computing
- Internet of Things (IoT)
- real-time processing

Guest Editor

Dr. Emi Yuda

1. Innovation Center for Semiconductor and Digital Future (ICSDF), Mie University, Tsu 514-8507, Japan
2. Department of Management Science and Technology, Graduate School of Engineering, Tohoku University, Sendai 982-0002, Japan

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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