Special Issue

Advances in Brain–Computer Interfaces and Sensors

Message from the Guest Editor

Brain–computer interfaces have emerged as a groundbreaking technology that establishes a direct communication pathway between the human brain and external devices, enabling individuals to control and interact with various systems using their brain activity. Sensors play a crucial role in acquiring and interpreting brain signals, facilitating the seamless integration of BCIs into everyday life. This Special Issue invites researchers and practitioners to contribute original research papers, reviews, case studies, and application-focused articles covering a wide range of topics related to advances in brain–computer interfaces and sensors, including, but not limited to:

- Novel sensor technologies for brain signal acquisition and analysis;
- Wearable and non-invasive sensors for brain–computer interfaces;
- Brain–machine shared control for enhanced BCI system performance;
- Multimodal sensor fusion for enhanced BCI performance;
- Real-time feedback and control mechanisms in BCIs;
- Applications of BCIs in healthcare, rehabilitation, and assistive technology;
- Brain–computer interface integration with virtual reality and augmented reality;

Guest Editor

Prof. Dr. Luzheng Bi

School of Mechanical Engineering, Beijing Institute of Technology, Beijing, China

Deadline for manuscript submissions

closed (28 February 2025)

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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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Message from the Editor-in-Chief

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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