Special Issue

EEG-Based Sensing Applications for Health Monitoring and Interventions in Chronic Disorders

Message from the Guest Editor

The past decade has seen significant advances in health services, driven by electronic health records and the advent of e-health technology. In addition, EEG-based neurofeedback interventions, which provide real-time feedback on brain activity and enable individuals to regulate their brain function, could be especially useful in managing addiction, where neurofeedback can assist in altering the neural pathways associated with addictive behaviors. This Special Issue aims to provide an overview of recent developments regarding the use of EEG-based sensing devices for enhancing the assessment and treatment practices applied to chronic neuropsychiatric disorders, with a specific focus on substance use disorders and behavioral addictions. Additionally, it intends to collect studies showcasing the current state of research in technology-based behavioral health interventions. Authors are encouraged to submit cutting-edge case studies, original research papers and reviews on various aspects of the use of neuro-technology and technology in the diagnosis and treatment of addiction (both substance use disorders and behavioral addictions) and chronic disorders.

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Deadline for manuscript submissions

20 January 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

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.

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