

Special Issue

The Convergence of Nanotechnology, Brain Machine Interfaces, and Artificial Intelligence

Message from the Guest Editor

Nanotechnology, brain–machine interfaces and artificial intelligence are current frontier hotspots of the world's scientific and technological development, and their convergence is an important development direction of electronics. Nanomaterials and nanodevices have a variety of excellent properties, and nanotechnology provides new materials, devices, and theoretical methods for the development of electronics.

Understanding the brain is the ultimate challenge for humans to understand nature and themselves. Neural signals within the brain are mainly electrical signals, and conducting neuroelectronics research requires high-performance brain–machine interfaces. Artificial intelligence technology provides new methods and means for the development of electronics.

This Special Issue aims to showcase research papers, short communications and review articles that focus on recent advances and applications of brain–computer interface devices and systems, nanomaterials and technologies, artificial intelligence, biomedical signal processing, and wearable devices and POCT devices for rapid detection of environmental hormones and biomarkers.

Guest Editor

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Deadline for manuscript submissions

closed (20 December 2023)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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