Special Issue

The Future of Human–Machine Collaboration: AI in Neural Rehabilitation and Assistive Technologies

Message from the Guest Editor

This Special Issue aims to explore the most advancements, challenges, and future directions in AI-powered neural rehabilitation and assistive technologies.

Topics of interest include, but are not limited to, the following:

- AI-driven brain–computer interfaces (BCIs) for motor and cognitive rehabilitation;
- Machine learning algorithms for personalized neurorehabilitation;
- Robotics and exoskeletons for motor recovery and assistance;
- AI-enhanced neurofeedback systems for rehabilitation therapy;
- Neural signal processing and AI-based predictive modeling for recovery assessment;
- Adaptive assistive technologies for individuals with neurological disorders;
- AI and wearable devices for real-time monitoring of brain and motor functions;
- Ethical considerations and human-centered design in AI-assisted neurorehabilitation;
- The role of AI in speech and cognitive therapy for neurodegenerative conditions;
- Virtual reality (VR), augmented reality (AR), and AI in rehabilitation environments.

Guest Editor

Dr. Cristian Randieri

Dipartimento di Scienze Teoriche e Applicate DiSTA, Faculty of Engineering, eCampus University, Via Isimbardi 10, 22060 Novedrate, Italy

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

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

Editor-in-Chief

Prof. Dr. Stephen D. Meriney
Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

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