Special Issue

Advancements in Medical and Assistive Technologies Using Artificial Intelligence and Deep Learning Techniques

Message from the Guest Editors

- AI and DL in medical diagnostics for early disease detection through medical imaging or signal processing;
- the development of adaptive assistive technologies and robotics to support individuals with disabilities;
- advancements in healthcare monitoring systems powered by AI for real-time analysis;
- AI-driven biomedical signal processing;
- the application of deep learning in biomedical imaging and signal interpretation;
- smart medical device innovation for improved patient care, including security for telemedicine technologies;
- the use of AI in personalized medicine for tailored treatment plans;
- the integration of AI into IoT in healthcare environments to optimize patient outcomes;
- the ethical and security challenges in AI-driven healthcare systems.

To conclude, we welcome submissions exploring the integration of AI-based programs and AT tools or devices into reinforcement learning principles and new technologies (e.g., augmented reality, virtual reality, serious games, and telerehabilitation) for both assessment and recovery purposes, to provide participants with highly customized and tailored technological solutions.

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Technologies, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

Editor-in-Chief

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