

Special Issue

AI-Driven Rehabilitation: Advances in Personalized Healthcare

Message from the Guest Editors

This Special Issue explores how Artificial Intelligence (AI) is transforming rehabilitation within the vision of personalized healthcare and Healthcare 5.0. AI-driven methods, supported by Explainable AI (XAI), enable transparent, continuous analysis of patient-specific data, fostering trust and supporting adaptive, individualized therapy pathways aligned with 4P medicine: predictive, preventive, personalized, and participatory care. Topics include AI for functional recovery assessment, early risk detection, targeted interventions, and clinically impactful rehabilitation solutions. Contributions on enabling technologies such as wearables, vision-based tracking systems, and extended reality (XR) are especially welcome, as these tools support objective monitoring and engaging rehabilitation experiences. We invite submissions on innovative, integrated, and patient-centered AI applications for rehabilitation, particularly those advancing remote and home-based care, scalability, and healthcare efficiency.

Guest Editors

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Prof. Dr. Enrico Vezzetti

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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