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Special Issue Reprint

Assistive Technologies in Care and Rehabilitation

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This Special Issue showcases recent developments and innovations in assistive technologies for rehabilitation and assistance. Featuring 24 contributions and an editorial, it highlights advances shaping research, clinical practice, and implementation in this field. This collection includes 18 original research articles and 6 reviews.

The research articles within present novel solutions, such as neuro-visual adaptive control for robotic surgery, foot-controlled prosthetic arms, smart systems for people with intellectual disabilities, and sensor-based interventions for chronic conditions. These studies demonstrate how robotics, AI, sensors, and virtual reality enhance precision, autonomy, and patient engagement. The review articles analyze existing technologies, covering assistive devices for joints, virtual reality for mobility, robotic hand recovery systems, remote rehabilitation for back pain, stress-reducing technology for children with autism, and air quality monitoring for respiratory diseases. These reviews offer insights into their design, effectiveness, usability, and research gaps to guide future work.

Collectively, this Special Issue illustrates the synergy between technological innovation, clinical practice, and research synthesis, offering valuable perspectives for scientists, engineers, and healthcare professionals.

I wish to offer my sincere gratitude to all the authors, reviewers, and contributors. Special thanks to the editorial team and Managing Editor, Juicy Yang, for their exceptional dedication and guidance, which were essential to this project's success.

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