

## Special Issue on **The Prospective Role of IT and IOT in Rehabilitation and Wellness**

# CALL FOR PAPERS

The pervasive diffusion of Information Technology (IT) and, more recently, of Internet of Things (IOT) is rapidly changing approaches, strategies, and paradigms of human life. This continuously evolving innovation is also redesigning the whole healthcare domain, with a special impact at the level of cognitive and motor rehabilitation, where clinical care models are expanding to embrace the more general domain of wellness and preventative healthy living. Healthcare facilities where resident healthcare professionals were used to design and implement rehabilitation patterns centered on human-to-human interaction are now transforming into healthcare management centers: IT-networks, still strongly relying on human-to-computer interaction, are already successfully contributing to expand “virtually endless” clinical rehabilitation intervention on the territory, but the integration of such a scenario with IOT approach, where smart technology allows any uniquely identified entity—sensorized tools, computing machines, devices, and humans—to exchange data over networks, will likely open the door to incredible new paradigms based on monitoring-based dynamic rehabilitation, individual’s empowerment, and preventative and maintenance lifestyle. This technology-based revolution has, of course, serious pros and cons which deserve to be widely investigated and needs to rely on clearly defined milestones in the science of knowledge and education.

The main aim of this special issue is thus to bring the attention to the relevant critical issues which support or limit the current and future IT-IOT-based rehabilitation approaches.

Potential topics include but are not limited to the following:

- ▶ Innovative instrumental assessment in motor rehabilitation
- ▶ Big data analytics to understand the current status of patients under rehabilitation
- ▶ Mobile health in telerehabilitation
- ▶ Wireless body area networks for telemonitoring of physical activity
- ▶ RFID technology in mobile health for telerehabilitation
- ▶ Risk assessment and management in telemonitoring and telerehabilitation
- ▶ Case management in rehabilitation processes

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/rrp/iotr/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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### **Publication Date**

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