

X International Workshop (On Site-On Line)

NeuroSpine

Telemedicine, Artificial Intelligence, Robotics

***BioMedical and InfoAssistive Technologies in Brain and Spinal
Rehabilitation and Inclusion of People with Disability***

October 10, 2025

Warsaw – Poland

(during the 32th International Trade Fair for Rehabilitation and Physiotherapy)



Program

H. 11.00 Introduction to Workshop

- **Wojciech Glinkowski** (Pres. Polish Telemedicine and e-Health Society, Warsaw Medical University, PL)
- **Francesco Sicurello** (President of IITM , CNR-ITB, Bicocca University of Milan, IT)

H. 11. 30 Digital Health, Biosensors and Info-Assistive Technologies in Rehabilitation

- **Generative AI–supported monitoring and caregiver coordination for patients with chronic neurological conditions, persistent pain, and complex dental care needs; Rafal Doniec** (Silesian University of Medicine, Poland)
- **Tools for minimally supervised exoskeleton-aided physiotherapy of extremities; Piotr Falkowski** (Biorobotics and Medical Devices Research, Development Center for Automation and Robotization, Warsaw University of Technology)
- **Exoskeletons and Neurospinal Rehabilitation; Francesco Chiampo** (Physiotherapist expert in Robotics, Italy)
- **Federated Learning and Big Data in Health Care; Mario Bochicchio** (University of Bari, Vicepresident of AITIM, Italy)
- **AI in Health Care; Sarmad Maqsood** (Vytautas Magnus University Kaunas, Lithuania)
- **Integration of GenAI assistant in care pathways for persons with disabilities in residential and home care settings; Laura Bugo, Evert Jan Hoogerwerf** (Aias Bologna Onlus, Italy)
- **TeleMediCare Platform for telemonitoring and rehabilitation; Alessandro Orro, Francesco Sicurello** (ITB - CNR Milan)

H. 1.00 pm Break

H. 1.30 Innovation and intelligent systems in Neuro-rehabilitation

- **Digital Medicine and NeuroRehabilitation; Paolo Milia** (Dir. Neuro rehabilitation at Clinical Institute Tiberino, University of Perugia)
- **Neuroimaging in Spine Cord Injuries; Giannantonio Pellicanò** (President of @itim, Hospital Prosperius Florence)
- **Robotics and artificial intelligence for Neuro-Rehabilitation: from scientific research to clinical practice; Stefano Mazzoleni** (Polytechnic of Bari and IMT Lucca, Italy)
- **Deep Learning Architectures for Speech Restoration from Brain Signals: Advancing Brain–Computer Interface Applications ; Asma Hasan Sbaih** (PhD in Neuroengineering and AI, Bethlehem, Palestine)
- **Telemonitoring Motor Recovery: From Technology to Clinical Application in Neurological Disorders; Giorgia Pregnolato** (SFI Centre: Insight. UCD – Un. College Dublin, Ireland)
- **Building Awareness and Service Provider Capacity for Intimate Partner Violence Brain Injury: Online Resources; Halina (Lin) Haag, Angela Colantonio, Michael Ellis, Karen Mason, Paul Van Donkelaar** (Wilfrid Laurier University, Canada)
- **The use of virtual reality (VR) for balance rehabilitation in patients with Parkinson’s disease in Morocco; Sana Maidoumi** (Maître de conférences Kinésithérapeute, ISPITS Marrakech)

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