





RehabWeek 2019 Workshop Program

Day 1: June 24th / Pre-Congress Workshop Day

Hall Name	201A	201B	201C	201D	201E	201F	202A	202B	202C	202D	203A	203B	203C	203D
08:15 - 09:45	Robotics in gait retraining for stroke rehabilitation a continuum of care	Rehabilitation technology: training to assist or assisting to train?	The challenges and opportunities of rehabilitation research patient recruitment	Autonomy and intelligence in robotic rehabilitation and assistive technologies		FES cycling for rehabilitation after CNS lesion	Interactive Computer Play for pediatric motor therapies: emerging technologies in clinical practice	Living knowledge mobilization: transitions within, between, and out of academia and industry	Integrating artificial intelligence with neural intelligence to improve control of prosthetic limbs	Innovative technologies to monitor health and function in home and community settings	High-Density EMG Neurobiomarkers for improving rehabilitation therapies	Maximizing therapy outcomes, from research to clinic smart devices and research protocols 	The FUNCTIONal features hidden inside power wheelchair electronics	Learn how to use functional electrical stimulation (FES) garments to generate relevant movements.
Coffee Break 09:45 - 10:30														
10:30 - 12:00	The Power to Overcome: Growth and sustainability in high rehabilitation technology programs	Applying electrical myographic signal and bluetooth on assistive technology	Analysis and ongoing development of the FMA/UDS mobility registry	Second part of the workshop: Autonomy and intelligence in robotic rehabilitation and assistive technologies		Restoring voluntary grasping function after stroke or SCI using functional electrical stimulation	Impact of an audiovisual multimedia tool on older adults' motivation to engage in physical activity	Neurorehabilitation after cognitive and motor impairment	Second part of the workshop: Integrating artificial intelligence with neural intelligence to improve control of prosthetic limbs	Home-based technologies to assess and treat motor impairment in individuals with neurologic injury	Second part of the workshop: High-Density EMG Neurobiomarkers for improving rehabilitation therapies	Maximizing therapy outcomes, from research to clinic smart treatment planning 	Second part of the workshop: The FUNCTIONal features hidden inside power wheelchair electronics	Therapeutic FES based on motor control principles for stroke rehabilitation
Lunch 12:00 - 13:45														
13:45 - 15:15	Advanced outcome metrics for upper limb sensory-motor function	Non-invasive BCI-controlled grasp neuroprosthesis for people with high SCI – the MoreGrasp approach	Is it good value for money? Fusing economic analyses into your rehabilitation research project	Managing shear forces through strategic friction reduction: science, standards and outcomes	Therapeutic intermittent Hypoxia: from mechanisms to treatment	Advances in neurorobotics and neuroprosthetics in rehabilitation from technology to physiology	Application of current findings from virtual reality research to clinical intervention	Simple or complex rehabilitation robots? Choosing appropriate tools for neurorehabilitation	Individualized assessment and education considerations for students with disabilities	Assessing fracture and fall risk among individuals with spinal cord injury living in the community	2020-2030: How will rehabilitation and technologies change for patients, clinicians and society?	Computer vision for monitoring mobility and falls risk in older adults	Robotic wheelchairs: Current trends and objective quantification to improve driving performance	Hybrid FES-Robotic rehabilitation systems
Coffee Break 15:15 - 16:00														
16:00 - 17:30	Dynamic balance during walking: what can we learn from different patient groups?	Artificial intelligence for revolutionizing mental health problems & rehabilitation in older adults	A multidisciplinary approach to commercializing rehabilitation and assistive technologies	Integrating 3D-printed assistive technology into occupational therapy with Makers Making Change		Second part of the workshop: Advances in neurorobotics and neuroprosthetics in rehabilitation from technology to physiology	Second part of the workshop: Application of current findings from virtual reality research to clinical intervention	Second part of the workshop: Simple or complex rehabilitation robots? Choosing appropriate tools for neurorehabilitation	Second part of the workshop: Individualized assessment and education considerations for students with disabilities		Second part of the workshop: 2020-2030: How will rehabilitation and technologies change for patients, clinicians and society? <i>* 2.half in exh.hall</i>		ISWP training tools you can use 	Utility of Functional Electrical Stimulation (FES) in rehabilitation medicine's continuum of care

 Application of Rehabilitation Technology
 Development of Rehabilitation Technology

 FES
 Virtual Rehabilitation

 Assistive Technology
 General Rehabilitation Topics

 Wheelchairs
 Smart Environment

 General topics
 Industry workshop