



### Poster sessions – FF Presentations

Mon 16	Topic 1: Tools and methods for quantitative analysis, measurement and assessment	
Order	Name	Poster title
PO -1	Guillermo Asin	Assessment of the Suitability of the Motorized Ankle-Foot Orthosis as a Diagnostic and Rehabilitation Tool for Gait
PO -2	Massimo Cenciarini	Identification of movement control parameters using whole body motion capture
PO -3	Nishant Jain	Uncovering Neuroplasticity after Stroke using Precise Motor Tasks
PO -4	Yusuke Okita	Gait adaptation in patients with soft tissue sarcoma following thigh muscle resection: gait analysis and musculoskeletal simulation
PO -5	Michele Vivian	Study of the Interaction between Human Musculoskeletal System and Robotic Assistive Devices
PO -6	Alice Mantoan	An EMG-Informed Neuromusculoskeletal Model to estimate muscle activation patterns in stroke patients
PO -7	Deborah Severijns	Motor fatigue during upper and lower limb function in persons with Multiple Sclerosis
PO -8	Elisabeth Bravo	Impact of specific symptoms of spasticity on voluntary lower limb muscle function, gait and daily activities after spinal cord injury
PO -9	Stefan Lambrecht	Online identification and calibration of inertial sensors
PO -10	Hamed Kazemi	Characterizing Coordination of Grasp and Twist in Hand Function of Healthy and Post-stroke Subjects
PO -11	Samuel Nogueira	System for estimating absolute angles in lower limb exoskeletons
PO -12	James Finley	Identifying the Principles Underlying the Motor Learning of New Walking Patterns

Tues 17	Topic 2: Robot-assisted trainers and devices	
Order	Name	Poster title
PO -1	Marta Pajaro	Motor modules in children with Cerebral Palsy
PO -2	Nikolaos Karavas	Exploiting teleimpedance on lower limb exoskeletons: Stiffness and Motion Augmentation
PO -3	Anna Pagel	Towards a Biomimetic Reflex-Based Control for Active Knee Exoprostheses
PO -4	Marco Caimmi	REACHING AND HAND-TO-MOUTH MOTION PRIMITIVES



		for the functional assessment of motor abilities in robot-assisted practice
PO -5	Martina Coscia	Development of control algorithms and innovative rehabilitative strategies for neurorehabilitative robotic devices
PO -6	Davide Pilastro	Innovative control techniques and strategies for robotics rehabilitations
PO -7	Urs Keller	New Robots and Methods for Pediatric Arm Rehabilitation
PO -8	Dario Wyss	Design of a novel gait rehabilitation robot
PO -9	Eloy Urendes	Development of an active system for support and stabilization in gait rehabilitation
PO -10	Marina Canela	Design of an exoskeleton for the gait rehabilitation
PO -11	Stefano Lai	A robotic system for quantitative assessment and post-stroke training of forelimb retraction in mice
PO -12	Rafael Mendoza	Design of a control system for a networked human lower limb exoskeleton

Wed 18	Topic 3: Artificial stimulation and neuroprosthetics	
Order	Name	Poster title
PO -1	Stefano Piazza	An experimental platform for the modulation of spinal reflexes in dynamical conditions
PO -2	Aikaterini Koutsou	Muscle Selectivity in Upper Limb
PO -3	Fabio Boi	A study on the effect of multisensory stimulation as artificial feedback for a bidirectional BMI system
PO -4	Daniel Simonsen	Assessment of a Kinect-based FES Rehabilitation System
PO -5	M <sup>a</sup> Carmen Carrasco	tSMS of the human motor system
PO -6	Francisco Resquín	Neuroprosthetic and Neurorobotic control for upper limb rehabilitation

Thu 19	Topic 4: BCIs, human-machine interfaces and biofeedback tools	
Order	Name	Poster title
PO -1	Jaime Ibáñez	Detection of the intention to move of stroke patients using the cortical rhythms
PO -2	Marcello M. Turconi	Performing motor imagery does not affect P300: implications for hybrid Brain Computer Interfaces
PO -3	Elvira Pirondini	Understanding the neural correlates of robot-mediated neurorehabilitation: towards a personalized therapy



PO -4	Esther Monge	Analysis of motor cortex activation patterns during reaching task of the affected upper extremity in stroke patients: prognosis and treatment
PO -5	Alicia Cuesta	Hybrid therapy in stroke: FES +ARMEO
PO -6	Javier Iglesias	Measurement of the upper limb disability: Evaluation Tool
PO -7	María Carratalá	Modification of the thorax kinematics during walking in patients with Multiple Sclerosis (MS) after neurorehabilitation.
PO -8	Fernando Trincado	Use of virtual reality and Brain-Computer Interface (BCI) as a tool for Motor Cortex activity analysis and training in patients with spinal cord injury (Work in progress)
PO -9	Daniel Schliessmann	Movement feedback for gait rehabilitation in incomplete SCI – a pilot study
PO -10	Na-hyeon Ko	Development of an interactive virtual game for children with autism spectrum disorders
PO -11	Alejandro Clemotte	Adaptive and multimodal interface for people with cerebral palsy
PO -12	Margaret Duff	Mixed Reality Rehabilitation for upper-extremity movement training after stroke

Fri 20	Topic 5: Other Therapies	
Order	Name	Poster title
PO -1	Miguel A. Velasco	Kinematic & Dynamic Characterization of the Upper Limb in Cerebral Palsy
PO -2	Ricardo Padrino	NeuroTREMOR platform. Diagnosis support and remote management of tremor
PO -3	Juliet Haarman	Development Of A Training System To Enable Safe And Self-Administered Training Of Balance, For Patients With Limited Posture Control
PO -4	Irene De Torres	Tele-rehabilitation for aphasic patients based on repetition and donepezil pharmacotherapy
PO -5	Merav Tshorny	Clinical experience using a 5 week treadmill-training program with virtual reality to enhance gait
PO -6	Marijke Vandermaesen	Bringing neurorehabilitation to a residential environment with novel pervasive interfaces
PO -7	Irene Tamagnone	An open-source, device-independent software platform to facilitate the integration of robotic therapy in clinical practice
PO -8	Rachel Profitt	Feasibility of a Kinect-based Fall Prevention Game for Older Adults
PO -9	Edwin Jonathan Ávila Mireles	Integration of Superior Limb Muscular Activation Sequence and Haptic Guidance in the Evaluation of Rehabilitation Patients