Poster sessions – FF Presentations

Tues 16	Topic 1: BCIs, human-machine interfaces and biofeedback tools Topic 2: Computational methods in rehabilitation	
Order	Name	Poster title
PO -1	Beryl Jehenne	Computational approach to extracellular electrical recordings in peripheral nerve fibers
PO -2	Roberto Bortoletto	Joint Stiffness Estimation of the Human Lower Limb
PO -3	Andrei Agius Anastasi	Quantitative Neurophysiological parameters in Stroke
PO -4	Elisabetta Peri	A new quantitative performance parameter for monitoring robotics rehabilitation treatment
PO -5	Alvaro Costa	Detection of attention mechanisms and changes on environment during human gait using a BMI system
PO -6	Irma Nayeli	Analysis of the effect in the performance of different feedback and training schemes for brain computer interfaces
PO -7	Rocio Salazar	Optimal sensor selection for brain-computer interfaces using electroencephalographic coherence
PO -8	Rosanne Zerafa	A brain controlled music player
PO -9	Esther Monge Pereira	Training of motor cortical rhythms in stroke patients with brain computer interface.
PO-10	Kensuke Ohno	Feasibility Study of Gait Training System for Severe Hemiplegic Patients
PO-11	Carlos Cifuentes	Human-Robot Interaction In Walker-Assisted Gait
PO-12	Stefano Piazza	Modulami: Revealing short term sensorymotor neuroplasticity following a 10 minute cycling session

Wed 17	Topic 2: Computational methods in rehabilitation Topic 3: Robot-assisted trainers and devices	
Order	Name	Poster title
PO -1	Branko Brackx	Design of the gait rehabilitation robot ALTACRO: a powered exoskeleton using compliant actuation
PO -2	Laura de Rijcke	Design of a Sit-to-Stance Exoskeleton with Modular Add-on Compliant Actuators
PO -3	Niek Beckers	Robot-Assisted learning of complex upper-extremity movements
PO -4	Serena Maggioni	Measuring walking before walking: robot-based assessment of gait recovery
PO -5	Volker Bartenbach	Potential side effects of a lower limb robotic exoskeleton
PO -6	Oliver Stoller	CardioRobot: Feedback-controlled robotics-assisted treadmill exercise for cardiovascular rehabilitation early after stroke
PO -7	Luca Tagliapietra	Multilevel modeling of the interaction between a human and a wearable robot
PO -8	Amaia Ilzarbe Andres	Dynamic analysis of an integrated lower limb-orthosis biomechanical model for interface forces evaluation.
PO -9	Stefan Lambrecht	Concept of assist-as-needed control for lower limb neuroprosthesis
PO-10	Tomislav Bacek	Design of a Novel Modular Variable Stiffness Actuator for Use in Lower Limb Exoskeletons
PO-11	Adam Valy	Muscle Synergies in Cycling Movements

Thu 18	Topic 4: Virtual reality, Electrical stimulation and other Therapies	
Order	Name	Poster title
PO -1	Francesca Lunardini	Muscle synergies for real-time multi-DOF robotic control
PO -2	Antonio D'Andrea	Planar Haptic Device and virtual reality tools for hand and finger rehabilitation
PO -3	Forough Madehkhaksar	Investigating the effect of Physical and cognitive dual task on balance control during stair negotiations with different configurations
PO -4	Ohno K.	Feasibility Study of Gait training system for Severe Hemiplegic Patients
PO -5	Giovanni Milandri	Trial: Motor control changes from eccentric cycle rehabilitation after ACL-R surgery
PO -6	P.M. Goebel	Who can do it more easily? Favoring amputee Training can help to achieve Robust Machine Learning for more than 2 DOF
PO -7	Rasmus Kragh Nielsen	Cortical Electrical Stimulation in a an Animal Model of Ischemic Stroke
PO -8	Alicia Cuesta Gómez	Validation of Functional electrical stimulation (FES) device as neuroprothesis, in reaching movement, in stroke patients. Pilot study.
PO -9	Jaime Ibáñez	A BCI intervention for upper-limb functional movements of chronic stroke patients
PO-10	M.Ali Akhras	Stability Analysis of Pinch Grasps in the NeuroMuscular Control Space
PO-11	Ana Lucía Cruz Ruiz	Musculoskeletal Driven Control for Avatars