



2018  
SUMMER SCHOOL ON  
NEUROREHABILITATION

<b>POSTER PRESENTATIONS</b>	
<b>Auberger Roland</b>	<i>Design and Control of Lower Limb Exoskeletons for Everyday Life</i>
<b>Barberi Federica</b>	<i>EMG-based online decoding of motor tasks in amputees: a pilot study</i>
<b>Barroso Filipe O.</b>	<i>Decoding intracortical activity to predict rat locomotion</i>
<b>Baylo Marín Olaia</b>	<i>Why is rehabilitation so difficult? Long term evaluation of skilled hand function recovery in rats with cervical Spinal Cord Injury</i>
<b>Bienvenido Tello Emanuel</b>	<i>Differential geometry of curves applied to trajectory modeling and identification</i>
<b>Cherif Amel</b>	<i>Postural stability assessment with an EMG-driven haptic interface</i>
<b>del-Ama Antonio J.</b>	<i>Customization of lower limb exoskeletons.</i>
<b>Eladly Ahmed</b>	<i>The Need for Studying the Biocompatibility and Safety of Biomimetic eAXON Neuro-prosthetic Systems</i>
<b>Ferrari Francesca</b>	<i>The vibration-induced proprioceptive illusions: analysis of the parameters that affect the sensation</i>
<b>Flux Eline</b>	<i>Validation and Repeatability of Online Reflex Activity Measures</i>
<b>Garcia Guillermo</b>	<i>State-dependent modulation of brain-to-spinal cord connectome</i>
<b>Lemerle Simon</b>	<i>Design and control of a soft active elbow joint for upper limb prosthesis</i>
<b>Liu Xiuhua</b>	<i>Recognition of STS transitions with a knee exoskeleton in transparent mode</i>
<b>Lou Yu</b>	<i>IMU-Based Gait Phase Recognition for Stroke Survivors: Preliminary Results</i>
<b>Martínez Expósito Aitor</b>	<i>Brain activity dependent neuroprosthetic for cycling task in stroke patients: Feasibility study</i>
<b>Martini Elena</b>	<i>A haptic Bidirectional Interface for gait rehabilitation of transfemoral amputees</i>
<b>Mugnosso Maddalena</b>	<i>Coupling robotic task and sEMG to assess muscle fatigue</i>
<b>Muñoz Zapata Fernando Jorge</b>	<i>Muscle synergies for motor control evaluation</i>
<b>Pascual Alejandro</b>	<i>Motor inhibition elicited by electrical stimulation of afferent pathways and its application in tremor suppression</i>



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<b>Pasquini Maria</b>	<i>Development of innovative robotic devices for rehabilitation on animal model of neuromotor injuries</i>
<b>Pi-Hsaia, SUN Shelly</b>	<i>Upper Body Motion Recognition for A Dynamic Brace</i>
<b>Pinto Fernández David</b>	<i>A review of human locomotion databases: preliminary results</i>
<b>Pisotta Iolanda</b>	<i>The NISCI Project. Antibodies against Nogo-A to enhance plasticity, regeneration and functional recovery after acute spinal cord injury, a multicenter European clinical proof of concept trial</i>
<b>Polese Davide</b>	<i>MEPs data analysis in corticospinal track stimulation</i>
<b>Rodrigues Camila</b>	<i>Proposal of a Stackable Functional Electrical Stimulation System Device</i>
<b>Rodríguez Cañón María</b>	<i>Characterization of the temporal recruitment of forelimb muscles during reaching and grasping by an EMG analysis.</i>
<b>San Agustín Arantzazu</b>	<i>Paired associative stimulation protocols with transcranial magnetic stimulation for motor cortex potentiation</i>
<b>Sánchez Villamañán M<sup>a</sup> Carmen</b>	<i>Mechanical Design of a Novel Semi-Active Hybrid Unilateral Stance Control Knee Ankle Foot Orthosis</i>
<b>Sanz Morère Clara Beatriz</b>	<i>Adaptive biologically-inspired control strategies for active knee orthoses</i>
<b>Soto León Vanesa</b>	<i>Study of the effects of stimulation with static magnetic fields in the nervous system central</i>
<b>Suciu Diana</b>	<i>Recording Neural Signals of Breast Cancer</i>
<b>Tayeb Zied</b>	<i>Hybrid brain-computer interfaces for intelligent neuroprostheses</i>
<b>Tortora Stefano</b>	<i>Synergy-based Classification to Anticipate Reaching Direction. Identification in Stroke subject for Robotic Arm Teleoperation</i>
<b>Usama Nayab</b>	<i>Detection of error-related potentials: A framework for self-calibrating brain-computer interfaces</i>
<b>Vallejo Marta</b>	<i>Machine Learning techniques for Motor Imagery</i>
<b>van Staveren Eline</b>	<i>MyLeg</i>
<b>Vázquez Díez Juan</b>	<i>Effect of FES on gait speed in chronic stroke patients</i>
<b>Xu Dongfang</b>	<i>Muscle Redistribution Surgery Based Capacitive Sensing for Upper-limb Motion Recognition: Preliminary Results</i>
<b>Yamagami Momona</b>	<i>Quantification of deficits in motor planning in cerebral palsy</i>



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<b>Zamorano Cristina</b>	<i>ARCHITECTURE OF THE SPINAL NETWORKS INVOLVED IN TASK SPECIFIC MOTOR CONTROL</i>
<b>Zarei Asghar</b>	<i>Investigation of Cortical Plasticity for Healthy Subjects and People Experiencing Phantom Pain</i>