

Thursday 21

| Time | Author | Title |
|---------------|-----------------------------|--|
| 10.00 – 10:15 | Giuseppe Averta | Modeling human behavior through functional analysis: applications in assistive robotics and HRI |
| 10:15 – 10:30 | Emma Colamarino | Neurophysiological constraints of control parameters for a brain computer interface system to support post-stroke motor rehabilitation |
| 10:30 – 10:45 | Marion Badi | Development of an intraneural peripheral stimulation paradigm for the restoration of fine hand control after paralysis in non-human primates |
| 10:45 – 11:00 | Francisco Resquin | Development of a hybrid robotic exoskeleton for reaching rehabilitation after stroke |
| 11:00 – 11:30 | Coffee break/Poster session | |
| 11:30 – 11:45 | Oscar Herrero Giménez | Factors Influencing Premotor Potentials and how their Combination Can Increase this Potentials |
| 11:45 – 12:00 | Sebastian Amsüss | INPUT – H2020 EU project to advance hand prosthetic control |
| 12:00 – 12:15 | Fabian Unglaube | Determine socket shift in trans-radial amputees using ultrasound and 3 D motion capture |
| 12:15 – 12:30 | Michael Wand | Machine Learning for Advanced Electromyographic Prosthesis Control |

Friday 22

| Time | Author | Title |
|---------------|-------------------------------|---|
| 10.00 – 10:15 | Amine Metani and Lana Popovic | Assessing different muscle contributions during FES cycling |
| 10:15 – 10:30 | Aitor Martínez Expósito | Brain machine interface and neuroprosthesis for lower limb functional rehabilitation: a corticospinal pathway study in healthy volunteers |
| 10:30 – 10:45 | Matteo Arquilla | Exoskeleton assistance of ankle in subjects with spinal cord injury using a neuromuscular controller |
| 10:45 – 11:00 | Julie Vaughan-Graham | Human Augmentation: Is there a role for Wearable Powered Exoskeletons in Stroke Rehabilitation? |
| 11:00 – 11:30 | Coffee break/Poster session | |
| 11:30 – 11:45 | Marko Markovic | Classception: Novel feedback interface for advanced myoelectric control |
| 11:45 – 12:00 | Benoit Sijobert | Effects of sensitive electrical stimulation-based somatosensory cueing in Parkinson's disease gait and Freezing of Gait assessment |
| 12:00 – 12:15 | Giulia Sedda | State-space models to understand the recovery mechanisms of Unilateral Spatial Neglect. |
| 12:15 – 12:30 | Guillermo Asín Prieto | Robotic Platform including a Visual Paradigm to Promote Motor Learning |