

Friday, October 2nd					
Time	Track A - Rehabilitation and Wearable Robotics Chairs: XXX Room YYY	Track B - AI and Computational Methods for Precision Rehabilitation Chairs: XXX Room YYY	Track C - Clinical Motor Control Chairs: XXX Room YYY	Track D - Neural Interfaces and Stimulation Chairs: XXX Room YYY	Track E - Clinical Translation and Industry Track Chairs: XXX Room YYY
08:30-09:15	Prof. Ursula Hofstoetter, Plenary Lecture (Room XXX)				
09:15-10:45	RWR02B - From Data to Action: Wearable Sensor Technology to Drive Neurorehabilitation (II) Chairs: XXX	RWR12A - Advances in Lower and Upper Extremity Rehabilitation Robotics for Persons with Mobility Disability (I) Chairs: XXX	CMC05 - Advances in Technology-Assisted Gait Recovery Chairs: XXX	NIS09 - Frontiers in EMG-guided bioengineering to improve neuromotor control in neurorehabilitation Chairs: XXX	NIS13 - Sensory Neuromodulation via Peripheral Stimulation: its Promising Future and Challenges Chairs: XXX
10:45-11:15	Coffee break				
11:15-12:45	RWR13A - Advanced Technologies for 3D Upper-Limb Robotic Rehabilitation:Hardware, Control, and Interaction (I) Chairs: XXX	RWR12B - Advances in Lower and Upper Extremity Rehabilitation Robotics for Persons with Mobility Disability (II) Chairs: XXX	NIS05 - Implantable BCIs to Restore Neurologic Function and Enhance Neurorecovery Chairs: XXX	NIS10 - Clinical study on QEEG-guided precision neuromodulation Chairs: XXX	AICM04 - Decoding Intention: Toward Effective and Personalized Neurorehabilitation through AI and Intelligent Systems Chairs: XXX
12:45-13:45	Lunch break				
13:45-14:30	Prof. Claudio Castellini, Plenary Lecture (Room XXX)				
14:30-16:00	RWR13B - Advanced Technologies for 3D Upper-Limb Robotic Rehabilitation:Hardware, Control, and Interaction (II) Chairs: XXX	RWR08 - Advances in Exoskeleton and Prosthetic Systems for Human Augmentation and Neuro-Rehabilitation Chairs: XXX	NIS14 - Methods and Techniques in Neural Interfacing and Stimulation Chairs: XXX	RWR05B - From Lab to Life: Human Intention and Interaction in Wearable Rehabilitation Robotics (II) Chairs: XXX	
16:00-16:30	Closing Ceremony				

RWR02B - From Data to Action: Wearable Sensor Technology to Drive Neurorehabilitation (II) Chairs: XXX	ID153. Li Guo, Anna Björkquist, Maria Muñoz-Novoa, Margit Alt Murphy and Leif Sandsjö. A co-designed smart textile sEMG biofeedback system for post-stroke hand rehabilitation at home - Preliminary findings
	ID272. Fernando Urgiles, Daniel Andrade and Juan Guanuchi. Wearable Low-Cost Inertial System for Lower-Limb Kinematic Monitoring in Post-Stroke Rehabilitation
	ID345. Muhammad Umair Ahmad Khan, Mukaram Tariq, Mudassar Lateef, Eshwa-Tul Eman and Daniel O' Toole. GameWrist: An IMU based Wrist Rehabilitation Game with Assistive Joystick for Stroke Patients
	ID394. Ludovica Viola, Giada Parodi, Georgii Kurshakov, Arianna Li Noce, Laura Bandini, Cecilia De Vicariis, Vittorio Sanguineti and Viola Biancheri. Real-time pose reconstruction to detect compensatory strategies in robot-assisted stroke rehabilitation
RWR13B - Advanced Technologies for 3D Upper-Limb Robotic Rehabilitation: Hardware, Control, and Interaction (II) Chairs: XXX	ID116. Taegyun Kim, Sohyun Moon and Jonghyun Kim. Generating Human-like Reaching Trajectories using End-Effector Kinematics for Robot-Assisted Rehabilitation
	ID193. Michele Canepa, Nicolò Boccardo, Matteo Laffranchi and Claudio Castellini. Interactive Real-Time Incremental Learning System for Prosthetic Control
	ID263. Siwoo Kim, Wonseok Shin, Bummo Ahn and Suncheol Kwon. Real-Time Upper-Limb Action Classification Using Multimodal sEMG-IMU Signals
	ID273. Junyeop Lee and Jinsoo Kim. Reducing Personalization Time for Exoskeleton Assistance Under Low Signal-to-Noise Ratio Conditions
	ID406. Heui-Sub Hyeon and Hyunsoo Woo. Development of a 3-DOF End-Effector Upper-Limb Rehabilitation Robot within an AI-Driven Multimodal Interactive Platform
NIS09 - Frontiers in EMG-guided bioengineering to improve neuromotor control in neurorehabilitation Chairs: XXX	ID135. Dailyn Despradel, Maxwell Murphy, Luigi Borda and Douglas Weber. Decoding controls for human-computer interaction from motor unit firing rates in people with tetraplegia due to spinal cord injury
	ID160. Abed Khorasani, Cynthia Gorski, Jinsook Roh, Ken Paller and Marc Slutzky. Wearable myoelectric interface for neurorehabilitation (MINT) combined with targeted memory reactivation to reduce abnormal co-activation and improve arm function in people with stroke
	ID228. R. James Cotton. Frontiers in EMG-guided bioengineering to improve neuromotor control in neurorehabilitation: Wearable gamified electromyographic biofeedback to improve arm function in people with spinal cord injury
	ID319. Supraja Vaidhyanathan, Gang Seo, Michael Houston, Manuel Portilla-Jiménez, Jeong-Ho Park, Hangil Lee, Sheng Li, Yingchun Zhang, Hyung-Soon Park and Jinsook Roh. Effects of EMG-Guided New Muscle Coordination Development on Neurophysiological Connectivity in Chronic Stroke: A Pilot Study
NIS10 - Clinical study on QEEG-guided precision neuromodulation Chairs: XXX	ID036. Hsing-Han Wang and Tzung-Chang Tsai. EEG-Based Assessment of rTMS Treatment Response in Disorders of Consciousness
	ID050. Haruto Takase, Masaki Fukunaga, Wenwei Yu and Jose Gomez-Tames. A Deep Learning Model for Predicting TMS-Induced MEPs from Brain Electric Field Maps
	ID084. Johanna A Issac, Ritwika Choudhuri and Cassandra D Solomons. Design and Development of an 8-Channel Ambulatory EEG Recorder (AMBER)
	ID128. Dogeun Park, Jeong-Woo Jang, Minseo Hwangbo and Dong-Ok Won. Modulation of ERP-based BCI Attention Performance through Short-term Respiratory Pattern Control
NIS13 - Sensory Neuromodulation via Peripheral Stimulation: Its Promising Future and Challenges Chairs: XXX	ID74. Milica Baljic, Vladimir Kojic, Filip Budimir, Marta Mirkov, Nebojsa Malesevic and Matija Strbac. Screen-printed UV curable hydrogel as skin-electrode interface in hybrid electrodes for EMG recording and electrotactile stimulation
	ID191. June Seung Lee, Younsu Jung, Hyejin Park, Sajjan Parajuli, Sagar Shrestha, Gyoujin Cho and Hangue Park. Flexible, MCU-less Roll to Roll Printed Neurostimulator for Wearable Neurorehabilitation
	ID305. Jiseung Kang and Hangue Park. Electrotactile Temporal Resolution via a Tactile Gap-in-Noise (tGIN) Paradigm: A Comparison between Fingertip and Tongue Tip
	ID308. Hamdi Qraieqa and Hangue Park. Wearable Wristband Stimulator for Motion-Dependent Electrotactile Sensory Feedback
NIS14 - Methods and Techniques in Neural Interfacing and Stimulation Chairs: XXX	ID014. Yun-Sung Lee, Ga-Young Choi, Dong-June Yeo and Han-Jeong Hwang. Task-Based Individualized Transcranial Alternating Current Stimulation for Cognitive Function Improvement Based on Electroencephalography Study
	ID138. Irene Reginaldi, Francesca Magni, Mario Spirito, Simone Traverso, Alessandra Pedrocchi and Emilia Ambrosini. Development of a Finite State Machine-Based Iterative Learning Controller for Hybrid FES Gait Assistance
	ID133. Sergey Bordovsky, Renata Murtazina, Sergey Andreev, Kseniya Shevtsova, Oksana Zinchenko and Vladimir Parfenov. Transcranial direct current stimulation in Parkinson's Disease
	ID171. Yujin Choi, Young Ro Kim, Euiheon Chung and Jiyeon Kang. A kHz Magnetic Stimulation Platform for In Vitro Neuromodulation Studies Based on an Axial-Flux Rotary-Transformer Geometry
	ID331. Kyung-In Jang. Mechanics-Guided Bioelectronic Systems: From Structural Design to Clinical Translation
	ID338. Min-Ho Seo, Sang-Min Kim, Yoo-Kyum Shin, Seok-Hoon Choi, Hyo-Kyeong Kwon and Seong Hyeok Park. In-situ Formed Micro/Nanostructured Dry Electrode for Long-term Reliable Bioelectrical Sensing and Stimulation in Neurorehabilitation

AICM04 - Decoding Intention: Toward Effective and Personalized Neurorehabilitation through AI and Intelligent Systems Chairs: XXX	ID126. Shaikha Alnuaimi, Soha Ahmed, Hamad Al Jassmi and Fady Alnajjar. A Multimodal Large Language Model-Based Framework for Home Monitoring of Emotional Dysregulation: A Feasibility Study
	ID181. Edgard J. Barazorda, D.S.V. Bandara and Jumpei Arata. Benchmarking Dynamic Functional Connectivity Methods Toward Adaptive BCI for Robotic Neurorehabilitation
	ID 224. Amila Kariyawasam, D.S.V. Bandara and Shunji Kimura. Forearm Mechanical-state Recognition using an SVM-based Wearable Fiber-Optic Sensor
	ID 206. Isabella Montanaro and Levi Hargrove. Toward Deployable, Robust EMG Pattern Classification: LDA, Deep Learning, and Hybrid Approaches
	ID284. Malik Muhammad Naeem Mannan, Alastair R. J. Quinn, Yana Salchak, David G. Lloyd and Claudio Pizzolato. Effects of Training Length and Update Interval on Calibration-Free Adaptive Brain-Computer Interfaces
CMC05 - Advances in Technology-Assisted Gait Recovery Chairs: XXX	ID60. Javier V. Juan, Rubén Martínez, Eduardo Iáñez, Mario Ortiz, Jesús Tomero and Jose M. Azorín. EEG data augmentation with conditional Variational AutoEncoder and Temporal Convolutional Networks for EEG-based pedaling motor imagery decodification
	ID147. Dongwon Jeong, Seongsik Oh, Sungjun Jeong and Woojoong Kim. Multimodal Analysis of Sequencing-Dependent Coordination in Instrumented Walker-Assisted Gait
	ID150. Agnese Cherubini, Natacha León, Clara Beatriz Sanz-Morère, Elena de Eusebio Rubio, Juan Camilo Moreno, Jesús Tomero and Francesca Lunardini. Robot-assisted gait therapy in post-stroke patients: preliminary evidence linking stable longitudinal assistance settings to greater clinical improvement
	ID235. Marica Ferrara, Federica Tamburella, Jlenia Toppi, Floriana Pichioni, Francesca Patarini, Shiva Mohebban, Giada Serratore, Alessandra Bigioni, Giorgio Scivoletto, Donatella Mattia and Nevio Luigi Tagliamonte. Quantifying Task-Specific Active Patient Participation during Robot-Assisted Gait Training for Spinal Cord Injury
RWR08. Advances in Exoskeleton and Prosthetic Systems for Human Augmentation and Neuro-Rehabilitation Chairs: XXX	ID188. Byungwook Lee, Kyung-Soo Kim and Younggeol Cho. Spatial-Temporal Feature Learning for Simultaneous Estimation of Finger Flexion and Extension Force
	ID282. Dongho Park, Carson Wolff, Mitch Miller and Aaron Young. Visual Biofeedback for Voluntary Modulation of Hip Joint Work Symmetry Using a Tuning-Free Powered Hip Exoskeleton: A Pilot Study
	ID301. Seungjun Lee, Junho Choi and Hyunki In. Active Strap for Improved Comfort in Lower-Limb Exoskeletons
	ID356. Younggeol Cho, Pranav Mamidanna, Laura Ferrante and Dario Farina. Spatial Representations of Forearm muscle activation for HD-EMG based Control and Assessment: Motor-Unit Localization and Direct Projection
	ID367. Yumna Khalid and Sigrid Dupan. Effect of learning and feedback assistance on the sense of agency during myoelectric control
NIS05 - Implantable BCIs to Restore Neurologic Function and Enhance Neurorecovery Chairs: XXX	ID078. Leigh Hochberg. Neuroscience of IBCIs and an Introduction to BrainGate
	ID086. Sergey Stavisky and Nicholas Card. High performance speech neuroprostheses
	ID098. Kushaal Rao, Henry Jenkins, Jacob Gusman, Maarten Ottenhoff, Ruixiang Li, Alexander Acosta, Lucille Panagos, Andrew Dempsey, Shane Allcroft, Emilia Mann, James Arnold, David Pont-Esteban, Harrison Young, Umut Civici, Connor McCann, Conor Walsh, Daniel Rubin, John Simeral, Carlos Vargas-Irwin and Leigh Hochberg. Controlling Soft Robotic Systems Using an Implantable Brain Computer Interface
	ID286. Abidemi Ajiboye, Emily Graczyk and Jennifer Sweet. Neural Interfaces for Sensorimotor Restoration after Tetraplegia
RWR05B - From Lab to Life: Human Intention and Interaction in Wearable Rehabilitation Robotics (II) Chairs: XXX	ID262. Minhye Kim, Jaewoo Cho, Hong Min and Joeun Ahn. Aftereffects of Step Length Asymmetry Induced by a Commercial Hip Exoskeleton
	ID265. Byeoni Han, Jinkyu Lee and Won-Kyung Song. Home-Based Exosuit Intervention Improves Walking Mobility and Daily Activity in Community-Dwelling Stroke Survivors
	ID247. Jumpei Arata, Nobutaka Mukae, Takashi Takebayashi and Hiroshi Kanatani. Exploratory Clinical Application of an EMG-based Motion Intention-Driven Hand Rehabilitation Robot
	ID395. Christian Mele, James Tung and Katja Mombaur. Design and Analysis of Controllers for Lower-Limb Exoskeleton Mannequin for Evaluating Interactions at the Coupling Interface
RWR12A - Advances in Lower and Upper Extremity Rehabilitation Robotics for Persons with Mobility Disability (I) Chairs: XXX	ID097. Peter Snow, Ruchi Kaul, Nida Mir, Ashna Joshi, Sushma Sagar and Rui Loureiro. Affordable virtual reality sensorimotor robotic intervention for the management of Phantom Limb Pain in below elbow amputees following trauma
	ID101. Juan Fang, Capucine Nicolet, Michael Haldimann and Niklaus Stocker. Generation of Arm Swing Movement Using a Cable-driven Parallel Robotic Platform for Early Rehabilitation
	ID304. Yifei Yuan, Erick H. Nunez, Easter S. Suviseshamuthu, Sergei Adamovich, Ghaith J. Androwis and Xianlian Zhou. Sim-to-Real Deployment of a Deep Reinforcement Learning Controller for a Lower-Limb Rehabilitation Exoskeleton
RWR12B - Advances in Lower and Upper Extremity Rehabilitation Robotics for Persons with Mobility Disability (II) Chairs: XXX	ID372. Gail Forrest, Christopher Cimigliaro, Erica Garbarini, Pierre Asselin, Steven Knezevic and Ann Spungen. Exoskeleton Controller and Design Considerations Follow-up: Effect on Training Response for Persons with SCI
	ID380. Ghaith J. Androwis, Brett Gordon, Juan Ramirez, Sergei Adamovich, Steven Kirshblum and Guang Yue. Effectiveness of Myoelectric Wearable Orthoses for Upper Extremity Function and Rehabilitation in Acute Spinal Cord Injury
	ID383. Karen Nolan, Gregory R. Ames, Christina M. Dandola, Corey M. Greene, Katherine M. Broderick, Joshua Breighner and Soha Saleh. Robotic Exoskeleton Gait Training Improves Weight Transfer and Walking Speed in Subacute Stroke
	ID403. Karen Nolan, Mohammed I. Huzien, Sharon Franco, Juan J. Ramirez, Courtney Craven, Julie M. Eng and Ghaith J. Androwis. Safety, Feasibility, and Preliminary Efficacy of a Pediatric Robotic Exoskeleton for Cerebral Palsy
RWR13A - Advanced Technologies for 3D Upper-Limb Robotic Rehabilitation: Hardware, Control, and Interaction (I) Chairs: XXX	ID038. Ho Moon Kim and Dong Min Choi. Design and Development of an Underactuated Hand Exoskeleton for Rehabilitation
	ID046. Minki Sin and Jangho Cho. Development of a Lightweight Upper Limb Exoskeleton for Interactive Rehabilitation Training
	ID115. Daehyun Kim and Chowon Park. Structural reserve-guided network biomarkers for predicting upper-limb recovery after stroke: Toward mechanism-informed adaptive robotic rehabilitation
	ID164. Sohyun Moon, Taegyun Kim and Jonghyun Kim. Toward a robust game-theoretic control framework for multi-DOF upper-limb rehabilitation robots