

RehabWeek 2025 Poster Schedule				
Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 13–14, 2025	PP-001	ICORR	Assessing Repeatability of CLEVERArm Exoskeleton Using Healthy Subjects: A Pilot Study	Adib Laskar
May 13–14, 2025	PP-002	ICORR	Abnormal Synergies and Muscle Weakness Identified in Stroke Survivors Via Wrist Position Probability Distributions	Adith Srivatsa
May 13–14, 2025	PP-003	ICORR	Design and Benchmarking of a Two Degree of Freedom Tendon Driver Unit for Cable-Driven Wearable Technologies	Adrian Esser
May 13–14, 2025	PP-004	ICORR	PRISM: Parameter Recovery Identification from Synthetic Modeling	Adriana Cancrini
May 13–14, 2025	PP-005	ICORR	Miniaturized Wearable Ultrasound System for Simultaneous Prediction of Wrist Angle and Grip Force During Dynamic Reaching	Afsana Hossain Rima
May 13–14, 2025	PP-006	ICORR	A Novel Patient-Centered Robotic Rehabilitation Approach for Retraining Reaching and Grasping Functions for Individuals with Stroke	Aisha Raji
May 13–14, 2025	PP-007	IFESS	The Frequency-Dependent Effects of Tibial Nerve Stimulation on Bladder Function	Aidan McConnell-Trevillion
May 13–14, 2025	PP-008	IFESS	Non-Invasive Brain-Controlled Spinal Stimulation for Enhancing Neuro-motor Recovery in Incomplete Spinal Cord Injury	Atsushi Sasaki
May 13–14, 2025	PP-009	ACRM	The influence of proximal and distal muscle activity on the activation of other muscles in the upper extremity	Akiko Yuasa
May 13–14, 2025	PP-010	ACRM	Arm weight support influences upper limb muscle activity of proximal muscles but not distal muscles	Akiko Yuasa
May 13–14, 2025	PP-011	ISVR	Physical Telerehabilitation Using Virtual Reality in Patients with Metastatic Castration-Resistant Prostate Cancer	Aileen Gabriel
May 13–14, 2025	PP-012	ISVR	Exploring the Impact of Virtual Reality Interventions on Autonomic Arousal in ICU Patients	Aileen Gabriel
May 13–14, 2025	PP-013	INRS	A Low-Inertia Suspension Robot for Adaptive Gravity Compensation of the Upper Limbs for Accessible Rehabilitation	Aine Kathleen Grady
May 13–14, 2025	PP-014	MINT	Computer-based Speech and Language Therapy for Dysarthria Rehabilitation – A Pilot Study	Andre Hallack
May 13–14, 2025	PP-015	RESNA	Design and usability of the PURE ballbot wheelchair	Elizabeth Hsiao-Weckster
May 13–14, 2025	PP-016	ICORR	Ambulation with a Transfemoral Bone-Anchored Powered Knee-Ankle Prosthesis: A Case Study	Ann Simon
May 13–14, 2025	PP-017	ICORR	Brain Biomarkers for Assessing Practice of Robotic Arm Reaching Movements Using a Head-Controlled Interface	Anna Packy
May 13–14, 2025	PP-018	ICORR	People with Chronic Stroke Adopt Gait Patterns That Enhance Control of Center-Of-Mass Dynamics in Response to Movement Amplification	Anna Shafer
May 13–14, 2025	PP-019	ICORR	Beyond the Legs: Leveraging Trunk and Driving Muscle EMG to Improve Gait Model Predictions	Annika Guez
May 13–14, 2025	PP-020	ICORR	Feasibility and Acceptability of the Somnomat Casa Rocking Bed As a Stimulation Substitute for a Patient with Rhythmic Movement Disorder	Alexander Breuss
May 13–14, 2025	PP-021	ICORR	Skeleton-Based Transformer for Classification of Errors and Better Feedback in Low Back Pain Physical Rehabilitation Exercises	Aleksa Marusic
May 13–14, 2025	PP-022	ICORR	A Therapist-Inspired Approach to Stiffness Modulation in Rehabilitation Exoskeletons	Marta Gandolla
May 13–14, 2025	PP-023	IFESS	Proprioception Training in Post-Stroke Survivors: A Challenge for Electrical Stimulation	Emilia Ambrosini
May 13–14, 2025	PP-024	IFESS	Transcutaneous Spinal Cord Stimulation for Motor Facilitation During Cycling in Individuals with Spinal Cord Injury: A Proof-of-Concept Study	Irene Reginaldi
May 13–14, 2025	PP-027	ISVR	Research into Co-Design Methods for the Design of a Virtual Rehabilitation Clinic	Stephanie Jansen-Kosterink
May 13–14, 2025	PP-028	INRS	Validation of Gait Parameters Extraction using a Smart Instrumented Insole for Pediatric Exoskeletons	Amandine Gesta
May 13–14, 2025	PP-029	MINT	The Role of Clinical Input in Health Technology Assessments of Neurological Rehabilitation Medical Devices	Barry Richards
May 13–14, 2025	PP-030	RESNA	Evaluating the effects of noninvasive spinal stimulation on gait parameters in cerebral palsy via markerless motion capture	Alexandra Portnova
May 13–14, 2025	PP-031	ICORR	Demographic-Driven Electromyography Analysis: Advancing Personalized Biosignal Interpretation	Ana Luisa Trejos
May 13–14, 2025	PP-032	ICORR	Fabrication and Evaluation of Woven and Crocheted Strain Sensors for Soft Rehabilitation Robots	Ana Luisa Trejos
May 13–14, 2025	PP-033	ICORR	Estimating Thorax and Shoulder Motion Using Magnetic-Free Quaternion-Based Functional Sensor-To-Segment Calibration	Ana Luisa Trejos
May 13–14, 2025	PP-034	ICORR	Adaptive Torque Control of Exoskeletons under Spasticity Conditions Via Reinforcement Learning	Andrés Chavarrias Sanchez

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May 13–14, 2025	PP-035	ICORR	Markerless Motion Capture Enhances Clinical Assessments: Preliminary Validation with the Box and Blocks Test	Andria Farrens
May 13–14, 2025	PP-036	IFESS	cFos activation after epidural spinal cord stimulation	Carly O'Sullivan
May 13–14, 2025	PP-037	IFESS	Comparing Three Different Spinal Cord Stimulation Modalities for Restoring Walking After Spinal Cord Injury	Carly O'Sullivan
May 13–14, 2025	PP-038	IFESS	Thin-Film Microelectrode Arrays for Recovery of Movement After Spinal Cord Injury	Carly O'Sullivan
May 13–14, 2025	PP-039	ICORR	Muscle Activation and Postural Sway in Response to Task Complexity: A Study of Balance Control in Older Adults	Ananda Sidarta
May 13–14, 2025	PP-040	ACRM	Comprehensive Phenotyping and Innovative Granular Assessment Key Device for Advancing Stroke Rehabilitation	Ananda Sidarta
May 13–14, 2025	PP-041	ACRM	Normative grip and pinch strengths in multi-ethnic Asian adults: a Singapore perspective	Ananda Sidarta
May 13–14, 2025	PP-042	ACRM	Thinking while falling forward: an EEG study on reactive postural control in older adults	Ananda Sidarta
May 13–14, 2025	PP-043	MINT	Robotic Technology for Retraining Functions After Stroke: a Questionnaire Study from a Singapore Perspective	Ananda Sidarta
May 13–14, 2025	PP-044	ISVR	Improving balance and reducing pain in Osteoporosis using Augmented Reality exergames: Results from a Clinical Trial	Eléa Thuilier
May 13–14, 2025	PP-045	INRS	Effectiveness of Repetitive Transcranial Magnetic Stimulation Over Primary Somatosensory Cortex Enhance Upper Limb Motor Activity in Stroke	Alfredo Lerin Calvo
May 13–14, 2025	PP-046	INRS	Efficacy of Non-Invasive Brain Stimulation in Children with Cerebral Palsy and Paediatric Stroke on Upper Limb Motor Function: A Systematic Review	Alfredo Lerin Calvo
May 13–14, 2025	PP-047	RESNA	A rehabilitative engineering application using a shock absorbing crutch tip.	Anthony Spatorico
May 13–14, 2025	PP-048	ICORR	A Control Method for Transtibial Protheses with Bilateral Leg Data	Aniket Mazumder
May 13–14, 2025	PP-049	ICORR	Retrofitting Soft Assistive Robots with Sew-Free Sensing Garments for Joint Motion Tracking and Kinematic Feedback	Anoush Sepehri
May 13–14, 2025	PP-050	ICORR	Where Is My Hand? Assessing Visuo-Tactile Integration of Hand and Shoulder after Virtual Reality Training Using a Body-Machine Interface	Antonio Padilha Lanari Bo
May 13–14, 2025	PP-051	ICORR	Causal Inference Predicts That Muscle Excitation Is Both a Contributor and Response to Frontal Plane Dynamic Balance During Gait of Older Individuals	Arianna Monteiro
May 13–14, 2025	PP-052	ICORR	Do Motor Skills Learned in Isometric Training Generalize to Unpracticed Workspaces?	Arturo Ramirez
May 13–14, 2025	PP-053	ICORR	Assessment Scores for Patients with Central Neurological Conditions in Rehabilitation: A Systematic Review	Arun Jayaraman
May 13–14, 2025	PP-054	ICORR	Optimising Continuous Control of Real-Time Brain-Computer Interfaces through Trial Length and Feedback Update Interval Selection	Claudio Pizzolato
May 13–14, 2025	PP-055	IFESS	Optimal FES Electrode Placement for FES Semi-Recumbent Cycling: A Simulation Study	Claudio Pizzolato
May 13–14, 2025	PP-056	IFESS	The Effect of FES Modulation on Hip Mechanical Loads: A Simulation Study	Claudio Pizzolato
May 13–14, 2025	PP-057	IFESS	Smart Garment for Automatic Assessment of Electromyography During FES	Matthew Hamby
May 13–14, 2025	PP-058	ACRM	Development and Validation of the Gait Deviation Index for individuals with Multiple Sclerosis	Alexander Barry
May 13–14, 2025	PP-059	ACRM	Machine learning enabled prediction of post-stroke functional recovery after rehabilitation from clinical data	Andrea Mannini
May 13–14, 2025	PP-060	ISVR	3D Technologies for Spatial Neglect in Post-Stroke Rehabilitation: a systematic review protocol	Andrea Mannini
May 13–14, 2025	PP-061	INRS	ARCIM Therapy: A new targeted spinal cord neuromodulation therapy to enhance	Céline Deschenaux
May 13–14, 2025	PP-062	MINT	Early Feasibility study of using immersive gamified functional electrical stimulation for upper limb neurorehabilitation	Ivan Isakov
May 13–14, 2025	PP-063	RESNA	The design of a biofidelic mock residual limb for prosthetic socket testing	Clara Phillips
May 13–14, 2025	PP-064	ICORR	Towards Unsupervised Incremental and Proportional Myocontrol Based on Higher-Density Surface Electromyography	Alisa Schulz
May 13–14, 2025	PP-065	ICORR	Evaluating Differences in Smart Walker-Assisted Locomotion in Augmented and Virtual Reality Environment	Anselmo Frizera
May 13–14, 2025	PP-066	ICORR	Evaluating the Relationship between Motor and Cognitive Impairment and Lesion Size and Location Post-Stroke Using CT Scans	Patience Yeboah

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May 13-14, 2025	PP-067	ICORR	Development of an Affordable Self-Stretching Passive Device for Treatment and Assessment of Spastic Wrist and Fingers Post-Stroke	Jacob Kim
May 13-14, 2025	PP-068	ICORR	Examining Postural Responses to Perturbations in 3D: A Pilot Study	Rhet Osborne Hailey
May 13-14, 2025	PP-069	ICORR	Somnomat Care: A Novel Robotic Bed for Vestibular Stimulation in Nursing Homes	Ricardo Manríquez-Cisterna
May 13-14, 2025	PP-070	IFESS	Combined Functional and Neuromuscular Electrical Stimulation for Upper Limb Rehabilitation in Hemiplegia: A Case Study	Aitor Martín-Odriozola
May 13-14, 2025	PP-071	IFESS	Enhancing Neuromuscular Recovery and Gait Function Through FES and Exercise After Tibialis Posterior Tendon Transfer for Foot Drop	Aitor Martín-Odriozola
May 13-14, 2025	PP-072	IFESS	FES-Assisted Cycling for Cardiovascular and Motor Rehabilitation in Spinal Cord Injury: A Case Study	Aitor Martín-Odriozola
May 13-14, 2025	PP-073	IFESS	Improvement of Manual Motor Ability Through Virtual Reality, Selective and Non-Selective Functional Electrical Stimulation: A Randomized Controlled	Aitor Martín-Odriozola
May 13-14, 2025	PP-074	ACRM	Understanding the object slippage: How do we perceive and then prevent the object slippage from our hands?	Ayesha Tooba Khan
May 13-14, 2025	PP-075	ACRM	iSpeak: A digital companion for at home speech assessment	Christoph Bauer
May 13-14, 2025	PP-076	ISVR	MetaReach Validation - Validation of VR Marker-less Hand Tracking for Neurorehabilitation	Christoph Bauer
May 13-14, 2025	PP-077	INRS	Adaptive Robotic Assistance to Maximize Patient Engagement with the Barrett Upper-Extremity Robotic Trainer (Burt)	Craig G. McDonald
May 13-14, 2025	PP-078	MINT	Implementing Personalised Robotic-Assisted Gait Training to Improve Outcomes in Multiple Sclerosis - A Case Study	Rob Bateman
May 13-14, 2025	PP-079	MINT	A Novel Hands-on-Tech Circuit Based Therapy for Inpatient Upper Limb Rehabilitation following Acquired Brain Injury: A Healthcare Improvement	Rob Bateman
May 13-14, 2025	PP-080	RESNA	Power Wheelchair Instrumentation to Assess Mobility Performance: Preliminary Accuracy Evaluation	Iyan Nekib
May 13-14, 2025	PP-081	ICORR	Egocentric Perception of Walking Environments Using an Interactive Vision-Language System	Brokoslaw Laschowski
May 13-14, 2025	PP-082	ICORR	Comparative Analysis of Neural Decoding Algorithms for Brain-Machine Interfaces	Brokoslaw Laschowski
May 13-14, 2025	PP-083	ICORR	Development of a Real-Time Neural Controller Using an EMG-Driven Musculoskeletal Model	Brokoslaw Laschowski
May 13-14, 2025	PP-084	ICORR	A Novel Elastic Model for Exoskeleton-User Coupling Interfaces	Christian Mele
May 13-14, 2025	PP-085	ICORR	Using a Robotic Device to Quantify the Impact of Conventional Gait Training on Ankle Proprioception after Stroke	Christopher A. Johnson
May 13-14, 2025	PP-086	ICORR	Preliminary Results on the Integration of Muscle Oximetry Sensors for Exoskeleton Interfaces	Christopher van Vlerken
May 13-14, 2025	PP-087	ICORR	Muscle synergies during gait of functionally-dependent subacute stroke survivors before and after robotic rehabilitation	Clara Beatriz Sanz-Morère
May 13-14, 2025	PP-088	IFESS	Feasibility and Tolerability of Operant Conditioning of the Triceps Surae Cutaneous Reflex in Individuals With Chronic Incomplete Spinal Cord Injury	Alan Phipps
May 13-14, 2025	PP-089	IFESS	Enhancing seated posture and neck retraction via epidural spinal cord stimulation after a motor complete spinal cord injury: A case study	Darren Mann
May 13-14, 2025	PP-090	ACRM	Sonography-Based Muscle Interface for Decoding Hand Grasps in Individuals with Incomplete Spinal Cord Injury	Manikandan SHENBAGAM
May 13-14, 2025	PP-091	ISVR	FAMOT: An Open-Source Virtual Reality Application for Target Achievement Control Evaluation of Upper Limb Motor Functions	Manikandan Shenbagam
May 13-14, 2025	PP-092	INRS	Integrating Body Weight Support for Intensive Upper Limb Neurorehabilitation	Madeline Runyen
May 13-14, 2025	PP-093	MINT	Maximizing Patient Engagement in Rehabilitation Through Accessible Voice-Assistant Technology	Amber Walter
May 13-14, 2025	PP-094	ACRM	Data to Action: Using data visualization for knowledge translation	Amber Walter
May 13-14, 2025	PP-095	RESNA	Kicking it off: Do toddlers with disabilities activate leg muscles when driving with a joystick?	Madeleine McCreary
May 13-14, 2025	PP-096	ICORR	Cardiovascular Assessment of Manual Wheelchair Users with 6-Minute Push Test: VO2 Formula	Madsyn Adelman
May 13-14, 2025	PP-097	ICORR	Impedance Control for Ankle Preparation Phase in BALANSens Platform	Mahmut Beyaz
May 13-14, 2025	PP-098	ICORR	SEMG-Based Assessment of Engagement in VR-Integrated BALANSens Ankle Rehabilitation	Mahmut Beyaz

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May 13–14, 2025	PP-099	ICORR	HERO Glove Insight: Utilizing Computer Vision and Force Sensors for Object-Specific Force Control	Daimen Landori-Hoffmann
May 13–14, 2025	PP-100	ICORR	Understanding the Importance of Feature Groups for Clinical Outcome Predictions with Machine Learning in Post-Stroke Robotic-Assisted	Cristian Camardella
May 13–14, 2025	PP-101	ICORR	Muscle Network Analysis of a Dynamic Bilateral Task with an Upper Limb Exoskeleton	Cristian Camardella
May 13–14, 2025	PP-102	ICORR	Muscle Synergy Analysis of Healthy Subjects Using a Soft Elbow Exosuit During Load-Carrying Tasks	Cristian Camardella
May 13–14, 2025	PP-103	IFESS	Towards the Participation to CYBATHLON 2024 FES-Bike Race: A Case Report	Davide Savona
May 13–14, 2025	PP-104	IFESS	Evaluation of usability, acceptability, user experience and human-device interaction of a Hybrid FES-Motorized trike for Sport-Therapy	Davide Savona
May 13–14, 2025	PP-105	ACRM	Spatial Distributions of Forearm Hemodynamic Responses During Different Modes of Isometric Handgrip Exercise	Amirmohammad Babaniamansour
May 13–14, 2025	PP-106	ACRM	Automating ADL classification from egocentric video using multimodal large language models to support clinical decision-making in neurorehabilitation	Adesh Kadambi
May 13–14, 2025	PP-107	ISVR	The Integration of Visual, Proprioceptive, and Vestibular Cues for Balance and Navigation After Concussion: A Virtual Reality Study	Maggie McCracken
May 13–14, 2025	PP-108	INRS	Movement-Gated Transcutaneous Auricular Vagus Nerve Stimulation: A Feasibility Study for Stroke Rehabilitation	Clément Lhoste
May 13–14, 2025	PP-109	MINT	A Global and Collaborative Ecosystem for Neurotechnology Integration: A Multi-Stakeholder initiative for Clinicians, Researchers and Manufacturers.	Laura Marriott
May 13–14, 2025	PP-110	RESNA	Cardiovascular load of using a walker-based exoskeleton in children with cerebral palsy	Katie Landwehr-Prakel
May 13–14, 2025	PP-111	ICORR	Design and Application of Vibrotactile Feedback to Influence Gait Symmetry	Chris Awai Easthope
May 13–14, 2025	PP-112	ICORR	IdentiARAT: Toward Automated Identification of Individual ARAT Items from Wearable Sensors	Chris Awai Easthope
May 13–14, 2025	PP-113	ICORR	Automated Prediction of Item-Level ARAT Scores from Wearable Sensors	Chris Awai Easthope
May 13–14, 2025	PP-114	ICORR	Arm Activity Feedback for Stroke Survivors - a User Needs Analysis for the Design of a Mobile Application	Laura Mayrhuber
May 13–14, 2025	PP-115	ICORR	Investigating Osseoperception in Distal Regions of the Upper Limb for Augmented Sensory Feedback	Cristian Felipe Blanco-Diaz
May 13–14, 2025	PP-116	ICORR	Local Performance-Based Control for End-Effector Robots in Upper-Arm Rehabilitation	Cristina Urdiales
May 13–14, 2025	PP-117	IFESS	Effects of 600 Hz sacral root stimulation on lower urinary tract function in an individual with spinal cord injury	Dennis Bourbeau
May 13–14, 2025	PP-118	IFESS	An Alternative Prophylaxis for Deep Vein Thrombosis Using Intermittent Electrical Stimulation	Don Dilshan Abeywardane
May 13–14, 2025	PP-119	ACRM	Electro-Cycle: Employing Leg EMG to Classify Bicycle Resistance	Alexander Dyer
May 13–14, 2025	PP-120	ACRM	Engineering an Open-source Motion Capture Platform to Characterize Abnormal Gaits for Resource-limited Environments	Alexander Dyer
May 13–14, 2025	PP-121	ISVR	Calm in Connection: The Role of Technology-Supported Mindfulness Interventions for Maternal Depression	Bruno Bonnechère
May 13–14, 2025	PP-122	ISVR	Using Serious Games and Virtual Reality to Unlock Insights into Body Representations in Autism Spectrum Disorder	Bruno Bonnechère
May 13–14, 2025	PP-123	ISVR	Advancing Cognitive Assessments: A Scoping Review of Computerized Tools for Children with Developmental Disabilities	Bruno Bonnechère
May 13–14, 2025	PP-124	INRS	Home-Based Robotic Design for Ankle Rehabilitation in Stroke Survivors	Byung-Woo Ko
May 13–14, 2025	PP-125	MINT	Investigating fatigue in persons with multiple sclerosis using the APP-Fatigue Diary	Jelka Jansa
May 13–14, 2025	PP-126	RESNA	Analysis of functional mobility assessment outcomes measures at a wheelchair clinic	Jevon Diawara
May 13–14, 2025	PP-127	ICORR	Design and Implementation of an Adaptive Robotic Head Support for Children with Low Head Control	Bradford Kerst
May 13–14, 2025	PP-128	ICORR	Evaluating Feedback Modality Preferences of Power Wheelchair Users During Manual Robotic Arm Control	Breeelyn Kane Styler
May 13–14, 2025	PP-129	ICORR	Personalized Robotic Training on a Planar Reaching Task	Bruno Borghi
May 13–14, 2025	PP-130	ICORR	The Relationship between Stroke-Related Cognitive Impairment and Robotic Proprioceptive Assessment	Caitlin Callaghan

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May 13–14, 2025	PP-131	ICORR	Can Learning from Demonstration Approaches Encode and Generalise Human Movements for Neurorehabilitation?	Jia Quan Loh
May 13–14, 2025	PP-132	ICORR	Towards the Development of Dynamic Hand Orthosis without Conventional Joints	Leon Schaeffer
May 13–14, 2025	PP-133	ICORR	Encoding Desired Postural Synergies in a Single-Actuator Soft Robotic Prosthetic Hand through Finger Joint Stiffness Modulation	Denny Oetomo
May 13–14, 2025	PP-134	IFESS	Long Pulse Width Electrical Stimulation (LPWS) Exercise and Denervation after Spinal Cord Injury-Part 1	Ashraf Gorgey
May 13–14, 2025	PP-135	IFESS	The Interaction Between Muscle Quality and Bone Mineral Density following two Paradigms of electrical stimulation in Spinal Cord Injury	Ashraf Gorgey
May 13–14, 2025	PP-136	IFESS	Enhanced Neuromodulatory Effects of Transspinal Stimulation on Spinal Excitability in Incomplete Spinal Cord Injury	Jakob Deithrich
May 13–14, 2025	PP-137	IFESS	MRI Spinal Cord Reconstruction Provides Insights into Mapping and Migration Following Percutaneous Epidural Stimulation Implantation in	Muhammad Uzair Rehman
May 13–14, 2025	PP-138	IFESS	Functional electrical stimulation cycling: a clinical practice guideline for spinal cord injury rehabilitation	Hope Jarvis-Rademeyer
May 13–14, 2025	PP-139	ACRM	Preliminary Evaluation of a Variable Friction Shoe for Gait Rehabilitation in Individuals with Foot-Drop	Jenny Bartloff
May 13–14, 2025	PP-140	ACRM	How to determine which TMS approach to use for supporting recovery of motor deficits after stroke: how the presence versus absence of initial motor	Laura Petrusciene
May 13–14, 2025	PP-141	ISVR	A serious game development for safety and confidence with powered mobility device: empathy phase	Philippe Archambault
May 13–14, 2025	PP-142	INRS	Sensor Fusion for Enhancing Prosthesis Control: Overcoming the Limb Position Effect and Dynamic Movement Variability Using EMG and IMU Data	Fabian Just
May 13–14, 2025	PP-143	MINT	Use of the ORCITI device in the gait of people with multiple sclerosis	Sergio Rodríguez Menéndez
May 13–14, 2025	PP-144	RESNA	Empowering UIC entry-level occupational therapy students to confidently integrate everyday and assistive technology into practice	Julia Bates
May 13–14, 2025	PP-145	ICORR	Analysis of Different Sensor Modalities for Movement Classification in Physical Therapy	Sebastian Dill
May 13–14, 2025	PP-146	ICORR	Applying Palpation Forces on a Lower Jaw Model Using a Collaborative Robotic Arm	Julian Seiler
May 13–14, 2025	PP-147	ICORR	Fabric Sensing of Intrinsic Hand Muscle Activity	Katelyn S. Lee
May 13–14, 2025	PP-148	ICORR	EPIC-Tech - Engineering and Physiotherapy Interdisciplinary Collaboration with Technology: A Case Study	Camila Shirota
May 13–14, 2025	PP-149	ICORR	Reimagining Assistive Walkers: An Exploration of Challenges and Preferences in Older Adults	Carlos A. Cifuentes
May 13–14, 2025	PP-150	ICORR	Stimulation in Training Data to Improve Proportional Motor Control in a Dexterous Sensorimotor Task	Caroline Casumpang
May 13–14, 2025	PP-151	IFESS	Short-term somatosensory-motor effects after transcranial and peripheral magnetic stimulation of the extensor carpi radialis muscle: a pilot study in	Carmen Krewer
May 13–14, 2025	PP-152	IFESS	Ultrasound Imaging on Myofascial Trigger Points for Investigating Effects of Electrical Muscle Stimulation with Self-Stretching on Upper Back Pain.	Seekaow Churprong
May 13–14, 2025	PP-153	ACRM	Perspectives of Patient Experience of Transcranial Magnetic Stimulation for Parkinson's Disease using the DART-RT	Amy Kemp
May 13–14, 2025	PP-154	ACRM	Preliminary Evaluation of the Implementation Potential of Transcranial Magnetic Stimulation for Veterans Using the DART-RT	Amy Kemp
May 13–14, 2025	PP-155	ISVR	Effect of virtual visual space on gait behavior	Kuni Konaka
May 13–14, 2025	PP-156	INRS	The Effectiveness of a Cart-Type Robot in Balance Exercises for Hemiparetic Stroke Patients: A Preliminary Study	Satoshi Hirano
May 13–14, 2025	PP-157	RESNA	Interrater Reliability for Accessibility of Classrooms on a Midwest Undergraduate Institution Campus	Sayeda Farzana Aktar
May 13–14, 2025	PP-158	ICORR	Unseen and Unheard Potential: Visual and Auditory Cues Affect Motor Plans and Coordination	Cecilia De Vicariis
May 13–14, 2025	PP-159	ICORR	Identifying Gait Patterns in Sub-Acute Stroke Patients Based on Open Access Gait Kinematics	Celine Bouwmeester
May 13–14, 2025	PP-160	ICORR	Personalization of Wearable Sensor-Based Joint Kinematic Estimation Using Computer Vision for Hip Exoskeleton Applications	Changseob Song
May 13–14, 2025	PP-161	ICORR	Dynamic Adaptation of Robotic Ankle-Foot Prostheses to Compliant Terrain: Reacting to Surface Stiffness Changes in Real-Time	Charikleia Angelidou
May 13–14, 2025	PP-162	ICORR	A Powerful Customized Fabric-Based Soft Robotic Glove for Assistance and Rehabilitation	Chen Rui

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May 13–14, 2025	PP-163	ICORR	A Flexible Clinician-Friendly Interface for Upper Limb Rehabilitation with Industrial Robots	Chiara Alessi
May 13–14, 2025	PP-164	ICORR	An Anatomically Accurate Biomimetic Robotic Hand with Textile Connective Tissues	Benedek József Tasi
May 13–14, 2025	PP-165	IFESS	Improvement in Motor Functions of Incomplete Spinal Cord Injured Patients After Hybrid FES Cycling Training	Balazs Radeleczki
May 13–14, 2025	PP-166	IFESS	Temporal summation in human peripheral axons when stimulated transcutaneously with a 10-kilohertz-frequency waveform	Billy Luu
May 13–14, 2025	PP-167	ACRM	People With Mild Traumatic Brain Injury Have Smaller and Slower Head Turns During Free-Living Daily Life	Selena Cho
May 13–14, 2025	PP-168	ACRM	Reliability and validity of virtual box & block test in healthy adults and patients with stroke	Seo Jung Yun
May 13–14, 2025	PP-169	ISVR	Assessing the Impact of Technology-Assisted Cognitive Rehabilitation: A Pre- and Post-Treatment Study with a Novel Telehealth Platform	Marta Frigerio
May 13–14, 2025	PP-170	INRS	Feasibility of Transcutaneous Auricular Vagus Nerve Stimulation for Stroke Rehabilitation: Investigating the Impact on Cortical Excitability	Flaminia Pallotti
May 13–14, 2025	PP-171	RESNA	Stow-Able Passive Supernumerary Dorsal Grasping	Jungpyo Lee
May 13–14, 2025	PP-172	ICORR	Assessment of Motion Sickness Associated with Motor Amplification in a Low-Cost Virtual Reality Rehabilitation System	Daniel Blustein
May 13–14, 2025	PP-173	ICORR	An exoskeleton teacher-student gait rehabilitation control system using real-time joint posture acquisition: A feasibility study.	David Anthony Hobbs
May 13–14, 2025	PP-174	ICORR	The Impact of Phase Variable Accuracy on Continuous Controller Performance for Knee-Ankle Prostheses: A Case Study	David Kelly
May 13–14, 2025	PP-175	ICORR	Development of a Soft, Spring-Like Finger Tendon Exo-Glove Design with a Four-Output Cable-Driven Linear Servomechanism	David Quintero
May 13–14, 2025	PP-176	ICORR	UP-CARE: An Upper Limb Portable Cable Assistive Recovery Exoskeleton for Elbow Movement Assistance	David Quintero
May 13–14, 2025	PP-177	ICORR	Accuracy of IMUs and Monocular Human Pose Estimation at Measuring Elbow Flexion	David Rode
May 13–14, 2025	PP-178	IFESS	IMREA's recommendations for Neuromuscular Electrical Stimulation (NMES)	Daniel Tamashiro
May 13–14, 2025	PP-179	IFESS	Trading Contact: Studying a Wearable Rehabilitation Device in Clinic with Markerless Motion Capture	Justin Huber
May 13–14, 2025	PP-180	ACRM	Effects of alternating pressure patterns on sacral skin blood flow responses in people with spinal cord injury	Serah Pauly
May 13–14, 2025	PP-181	ACRM	A Neuroplasticity Based Approach: Updating Traditional Neurorehabilitation Models to Include Evidence Based Neuroplasticity Principles	Mary Bowman
May 13–14, 2025	PP-182	ISVR	Measuring Visuospatial Attention in Exoskeleton-Assisted Locomotion: Experimental Design	Nicola Abeni
May 13–14, 2025	PP-183	INRS	Reconnecting Mind and Movement: Walking Rehabilitation in Chronic Spinal Cord Injury enhanced with a Brain-Spine Interface.	Nadine Interling
May 13–14, 2025	PP-184	RESNA	design approach to enhance the wheelchair acquisition and service delivery process	Kah Min Ong
May 13–14, 2025	PP-185	ICORR	Independent Donning and Doffing Robotic Hand System: An Innovative Solution for Home-Rehabilitation	Nam-Jong Paik
May 13–14, 2025	PP-186	ICORR	A Case Study of Error Fields: A Three-Dimensional Personalized Robotic Therapy	Naveed Reza Aghamohammadi
May 13–14, 2025	PP-187	ICORR	Assessing Stylistic Differences in the Underlying Biomechanical Objectives of Walking Using Simulation-Based Observational Gait Analysis	Nicholas Fey
May 13–14, 2025	PP-188	ICORR	Reciprocal Learning of Intent Inference with Augmented Visual Feedback for Stroke	Ava Chen
May 13–14, 2025	PP-189	ICORR	Psychophysical Evaluation of a Mechanotactile Haptic Feedback Device	Deep Roshan
May 13–14, 2025	PP-190	ICORR	Curating User-Defined Interface Maps for Robot Teleoperation	Demiana Barsoum
May 13–14, 2025	PP-191	ICORR	An Advantageous Array of Air Springs That Attenuates Aerial Inherent Nonlinearities for Force Sensing	Dongwon Kim
May 13–14, 2025	PP-192	IFESS	A method to improve sensory recovery following median/ulnar nerve repair using transcutaneous electrical stimulation	Nebojsa Malesevic
May 13–14, 2025	PP-193	IFESS	The Utility of Scalp EEG in Cortical Visual Prosthesis Testing	Katarina Stephan
May 13–14, 2025	PP-194	ACRM	Evaluating the Effectiveness and Usability of the TCI Mobile App as an Adjunct to Constraint-Induced Movement Therapy: A Randomized	Natalia Duarte Pereira

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 13–14, 2025	PP-195	ACRM	Impact of the TCI Mobile App on Functional Mobility in Constraint-Induced Movement Therapy for Chronic Stroke Survivors	Natalia Duarte Pereira
May 13–14, 2025	PP-196	ISVR	Feasibility of Immersive Virtual Reality-Based Rehabilitation for Upper Limb Recovery in the Early Post-Stroke Stage: A Pilot Study	Nicolas Jimenez Neira
May 13–14, 2025	PP-197	INRS	The Implantable System That Restores Hemodynamic Stability After Spinal Cord Injury	Nicolas Hankov
May 13–14, 2025	PP-198	INRS	Augmenting Rehabilitation Robotics With Spinal Cord Neuromodulation: A Proof of Concept	Nicolas Hankov
May 13–14, 2025	PP-199	RESNA	Data-driven modeling to predict prehabilitation adherence in frail individuals with ESKD	Mikayla Deehring
May 13–14, 2025	PP-200	ACRM	Data-Driven Modeling to Predict Prehabilitation Adherence from Wearable Sensors	Mikayla Deehring
May 13–14, 2025	PP-201	ICORR	First steps of creating a simulation environment in OpenSim to design a control method for a novel soft robotic exoskeleton	Miklós Koller
May 13–14, 2025	PP-202	ICORR	Non-Invasive Spatiotemporal Spinal Cord Stimulation Paired with Force Perturbations Improves Balance in Individuals Post-Stroke: A Pilot Study	Ming Wu
May 13–14, 2025	PP-203	ICORR	Theoretical Evaluation of DE-AFO-1550: A Comfortable Robotic Ankle Exoskeleton for Children with Cerebral Palsy Powered by Advanced Stacked	Mobina Masaei Koroyeh
May 13–14, 2025	PP-204	ICORR	Quantifying the Sense of Agency: A Forced Choice Paradigm for Assessing Intentional Binding During Upper Limb Movements	Momchil Gavrilov
May 13–14, 2025	PP-205	ICORR	Assessing Personalized FES Patterns for Gait Rehabilitation in a Clinical Setting	Nicolas Georg Feppon
May 13–14, 2025	PP-206	ICORR	A First Design of the Inertially Correct Testbed Arm Platform for Testing of Wearable Devices	Edoardo Battaglia
May 13–14, 2025	PP-207	IFESS	Preliminary Study on Comparison of Functional Electrical Stimulation Patterns for Gait Rehabilitation in a Clinical Setting	Nicolas Feppon
May 13–14, 2025	PP-208	IFESS	Neuromuscular Inefficiency Impairs Muscle Performance in Hospitalized Patients: A FES Cycling-Based Evaluation Method Observational Study	Murillo Frazao
May 13–14, 2025	PP-209	ACRM	High-intensity low volume functional electrical stimulation-cycling exercise improves muscle performance and ambulation capacity in hospitalized	Murillo Frazao
May 13–14, 2025	PP-210	ACRM	Customizing Assistive Technology for Children: Usage Patterns, Abandonment, and Factors for Long-Term Success	Naomi Gefen
May 13–14, 2025	PP-211	ISVR	Dynamic motor responses to visual displacements during training: How virtual reality (VR) can explore the role of expectation in motor training	Sophie Dewil
May 13–14, 2025	PP-212	RESNA	Study on standardization of robotic wheelchair	Soonjae Ahn
May 13–14, 2025	PP-213	ICORR	Real-Time Rehabilitation Tracking by Integration of Computer Vision and Virtual Hand	Soroush Korivand
May 13–14, 2025	PP-214	ICORR	Robotic-Assisted Leg Stretching Techniques Facilitated by a Powered Exercise Machine and Functional Electrical Stimulation	Steven Evangelos
May 13–14, 2025	PP-215	ICORR	Novel Method for Setting Assistance Requirements for Population-Specific Joint Torque Deficits with Applications to Exoskeleton Design	Stijn Hamelryckx
May 13–14, 2025	PP-216	ICORR	Biplanar Ankle Assistance for Dropfoot Gait Post-Stroke with Multi-Objective Human-In-The-Loop Optimization: A Case Study	Elena Gutierrez-Farewik
May 13–14, 2025	PP-217	ICORR	Instructions from an Active Robotic Hand Increase Body Ownership and Task Clarity	Sweder van Dipten
May 13–14, 2025	PP-218	ICORR	Implementation and Validation of a Data-Driven Variable Impedance Controller on the Össur Power Knee	T. Kevin Best
May 13–14, 2025	PP-219	ICORR	Towards Magnetically Induced Skin Stretch for Hand Proprioceptive Feedback	Eleonora Fontana
May 13–14, 2025	PP-220	IFESS	Scalable Design of Dry, Flexible Textile Electrodes in User-Friendly Adjustable Sleeve	Stephanie M. DiNunzio
May 13–14, 2025	PP-222	ACRM	Using digital technologies and computer vision for designing and implementing smart home programs for post-stroke rehabilitation	Sutanuka Bhattacharjya
May 13–14, 2025	PP-223	ACRM	Validity of joint angles measured by a newly developed wearable inertial measurement unit sensor	Taiki Yoshida
May 13–14, 2025	PP-224	ISVR	Self-Paced Walking in Two VR Systems: Secondary Analysis of Gait Acclimation to Visual Perturbation	Stephen Bergquist
May 13–14, 2025	PP-225	INRS	Rehabilitation and Nursing Care Robot Promotion Event: 3 Years of Efforts and Achievements	Tawara Koji
May 13–14, 2025	PP-226	RESNA	Health App Review Tool (HART): Thematic Analysis of Advisory Group	Sungwoo Moon
May 13–14, 2025	PP-227	ICORR	Personalized Range of Motion Scaled Wrist Pointing for Robotic-Based Motor Impairment Assessment	Elijah Rice

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 13-14, 2025	PP-228	ICORR	Enhancing Comfort and Repeatability of Human-Robot Attachment Systems: Comparison of a Compliant Orthosis for BLUE SABINO	Emile Johnson
May 13-14, 2025	PP-229	ICORR	Enhancing Seated Lower Limb Training: Evaluating an Exergame-Integrated Stepper for Weight-Shift and Muscle Activation	EMRE BEYCAN
May 13-14, 2025	PP-230	ICORR	Development of the Myoelectric Control Resolution Assessment: A Rapid and Device-Agnostic Outcome Measure for Upper-Limb Prostheses	Eric J. Earley
May 13-14, 2025	PP-231	ICORR	Towards an Optimal Model of Post-Stroke Sensorimotor Control	Erica Waters
May 13-14, 2025	PP-232	ICORR	Analysis of Induced Muscle Activations by an Affordable, Reconfigurable Robot for Comprehensive Post-Stroke Rehabilitation	Erica Waters
May 13-14, 2025	PP-233	ICORR	A Qualitative Exploration of EMG Visual Feedback for Spinal Cord Injury Rehabilitation	Erik Scheme
May 13-14, 2025	PP-234	IFESS	Optimization of Chronic Intracortical Microstimulation with Ultra-thin, Ultramicroelectrode Arrays	Elizabeth Olivo
May 13-14, 2025	PP-235	IFESS	Image Processing of X-rays of the Lumbar Spine and Spinal Cord Stimulation Implants	Chimdi Ihediwa
May 13-14, 2025	PP-236	ACRM	Quantifying Compensatory Upper Extremity Movements After Stroke Using Wrist-Worn Sensors	Nicholas Nazak
May 13-14, 2025	PP-237	ACRM	Virtual reality for stroke rehabilitation: systematic review	Kate Laver
May 13-14, 2025	PP-238	INRS	Advancing Stroke Rehabilitation with 3D Gait Analysis - A Comparative Analysis of Mobile Application for Evaluation of Gait in Stroke Patients	Guo Ling
May 13-14, 2025	PP-239	INRS	Acceptance and Implementation of Tele-rehabilitation in the Community: A Feasibility Study	Guo Ling
May 13-14, 2025	PP-240	RESNA	Feasibility and effectiveness of pre-operative rehabilitation training and education on occupational performance in people with lower limb	Hongwu Wang
May 13-14, 2025	PP-241	RESNA	Effectiveness of technology-based interventions on visual recovery and functional outcomes in stroke patients with visual deficits – a rapid	Hongwu Wang
May 13-14, 2025	PP-242	ICORR	Effects of Deep Core Activation Method Using Wearable Cyborg HAL in a Supine Position for Ameliorating Defecatory Function: A Pilot Study	Hayato Tamai
May 13-14, 2025	PP-243	ICORR	Efficient Multi-Positioned Training for Regression-Based Myoelectric Control: Exploring Transformer Models with Transfer Learning	Heather E. Williams
May 13-14, 2025	PP-244	ICORR	SpasticMyoElbow: Physical Human-Robot Interaction Simulation Framework for Modelling Elbow Spasticity	Hao Yu
May 13-14, 2025	PP-245	ICORR	Prosthetic Control by Learning: A Multi-Agent Cooperative Game Framework	Haofei Hou
May 13-14, 2025	PP-246	ICORR	A Customizable Fitting Protocol for the Body-Machine Interface	Fiona Neylon
May 13-14, 2025	PP-247	ICORR	Optimizing the Myokinetic Interface: A Finite Element Model to Predict Displacement in Amputated Muscles	Flavia Paggetti
May 13-14, 2025	PP-248	IFESS	Hybrid FES-Armeo®Spring System for Stroke Rehabilitation: A User-Centered Design Approach	Richard S. Aggerholm
May 13-14, 2025	PP-249	IFESS	Development of a Hybrid FES-Armeo Spring System for Enhancing Stroke Rehabilitation	Erika G. Spaich
May 13-14, 2025	PP-250	ACRM	Effect and safety of neuromuscular electrical stimulation synchronizing food swallowing training in patients with mild to moderate pharyngeal dysphagia	Han Xu
May 13-14, 2025	PP-251	ACRM	Feasibility of exercise training and home modification interventions in reducing fear of falling in Wheelchair Users with Multiple Sclerosis.	Harshal Mahajan
May 13-14, 2025	PP-252	INRS	Advancing Neurologic Rehabilitation: First-Year Outcomes and Insights From VBRRll's Exoskeleton Program	Joshua Breighner
May 13-14, 2025	PP-253	RESNA	Measuring Early Intervention Provider's Use of a Novel Switch-Accessible Play Kit	Mia Hoffman
May 13-14, 2025	PP-254	ICORR	A Task-Agnostic Knee Exoskeleton for Reducing Osteoarthritis Pain across Activities of Daily Life: A Pilot Study	Ernesto Hernandez Hinojosa
May 13-14, 2025	PP-255	ICORR	Handling Kinematic Features in an Action Observation Task to Optimize a Brain Computer Interface-Based Rehabilitation Training	Francesca Patarini
May 13-14, 2025	PP-256	ICORR	Human-Centered Geodesics for Motion Planning	Francesco Bianchin
May 13-14, 2025	PP-257	ICORR	Effects of Visual and Verbal Feedback on Active Patient Participation During Robot-Assisted Gait Training	Francesco Di Tommaso
May 13-14, 2025	PP-258	ICORR	Effectiveness and Adherence of a Robot-Enhanced Imitation Therapy in Autistic Children	Gabriele Fassina
May 13-14, 2025	PP-259	ICORR	Measuring Actual Arm Use During Soft-Robotic Glove Use at Home: Single-Case Experimental Design in Patients with Hand Limitations	Gerdienke Prange-Lasonder

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May 13–14, 2025	PP-260	ICORR	Development and Validation of a Low-Cost Open-Source Force Myography Band for Hand Gesture Recognition	Giancarlo Sagastume
May 13–14, 2025	PP-261	IFESS	Analysing the responses evoked by multi-contact epineural electrical stimulation to restore upper-limb functions in complete tetraplegia	Christine Azevedo
May 13–14, 2025	PP-262	IFESS	Optimized Stimulation Patterns for FES-stimulated Cycling Using an Experimentally Identified Physiological Muscle Model	François Bailly
May 13–14, 2025	PP-263	ACRM	Co-creation of a technology-supported ecosystem for sub-acute stroke care: preliminary results of the ROOMMATE project	Francesca Cecchi
May 13–14, 2025	PP-264	ACRM	An Expert guided Family based Multi-Modal Tele-Rehabilitation Intervention for Individuals with Dementia: Randomized Controlled Trial	Jiaqi Marne
May 13–14, 2025	PP-265	ACRM	Individualized exercise prescription with a data-driven approach in stroke survivors- a pilot study	Jiaqiqi Li
May 13–14, 2025	PP-266	INRS	The Impact of Community-Based Exercise on Physical Function in Older Adults	Kentaro Yoshida
May 13–14, 2025	PP-267	RESNA	The Impact of Mattress Types and Bed Inclination on Pressure Injury Prevention	Lindsay Stern
May 13–14, 2025	PP-268	ICORR	Measuring Muscle Activation with the HRX-1 Wrist Manipulation Robot	Lucille Cazenave
May 13–14, 2025	PP-269	ICORR	FES-Induced and Voluntary-Induced Fatigue in a Rehabilitation-Like Task	Lucille Cazenave
May 13–14, 2025	PP-270	ICORR	Manipulation of Sensory Information in Competitive Scenarios Induces Adaptive Changes in Action Selection: Insights for Neurorehabilitation	Laura Bandini
May 13–14, 2025	PP-271	ICORR	An Extensible Platform for Measurement and Modification of Muscle Engagement During Upper-Limb Robot-Facilitated Rehabilitation	Laura Hallock
May 13–14, 2025	PP-272	ICORR	Pattern Recognition Control of a 2 Degree-Of-Freedom Prosthetic Device	Levi Hargrove
May 13–14, 2025	PP-273	ICORR	Deep-Learning Control of Lower-Limb Exoskeletons Via Simplified Therapist Input	Lorenzo Vianello
May 13–14, 2025	PP-274	IFESS	Characterization of the Posterior Root-Muscle Reflex in Healthy Individuals of Different Ages	Kyle Valestrino
May 13–14, 2025	PP-275	IFESS	Spinal Cord Stimulator Implant Procedure for Targeting the Ventral Spinal Cord	Kyle Valestrino
May 13–14, 2025	PP-276	ACRM	Establishing an adjunct treadmill walking program to increase locomotor training during intensive rehabilitation	Cyril Duclous
May 13–14, 2025	PP-277	ACRM	Use of Technology on Patient Outcomes in Inpatient Rehabilitation: Highlighting the challenges in heterogeneous patient populations	Caitlin Wright
May 13–14, 2025	PP-278	INRS	Gyroscopic wearable backpack (The GyroPack) improves balance and gait capacity in people with degenerative ataxia – a sham-controlled robotics	Lotte van de Venis
May 13–14, 2025	PP-279	RESNA	Use of Participatory Action Research for Technology Transfer and Knowledge Translation of Mobile Apps for Public Building Accessibility	Rochelle Mendonca
May 13–14, 2025	PP-280	ICORR	Design of an Active Sling-Suspension Robot for Adaptive Gravity Compensation of the Upper Limbs	Rodrigo Mendez
May 13–14, 2025	PP-281	ICORR	MyoBack: A Musculoskeletal Model of the Human Back with Integrated Exoskeleton	Rohan Walia
May 13–14, 2025	PP-282	ICORR	Real-Time Prediction of Leg Joint Kinematics During Steady-State Walking and Task Transitions	Louis Devillez
May 13–14, 2025	PP-283	ICORR	Pilot Testing of Dynamic Bayesian Optimization for Exoskeleton-Assisted Training of Propulsion Mechanics	GilHwan Kim
May 13–14, 2025	PP-284	ICORR	Exploring Usability Standards in Robotic Rehabilitation: A Meta-Analysis of System Usability Scale Scores	Giovanna Nicora
May 13–14, 2025	PP-285	ICORR	Introducing V-Soft Pro: A Modular Platform for a Transhumeral Prosthesis with Controllable Stiffness	Giuseppe Milazzo
May 13–14, 2025	PP-286	ICORR	Assessing the Impact of Loading on Mobility and Physical Exertion of Manual Wheelchair Users Using Wearable Sensors	Gorsic Maja
May 13–14, 2025	PP-287	IFESS	TENS Evoked Sensory Percepts Enable Slip Warning and Prevention during Prosthetic Grasps	James Patton
May 13–14, 2025	PP-288	IFESS	Non-Invasively Evoked Tactile Sensation via TENS Provides Versatile Sensory Functions for Prosthetic Users	Ning Lan
May 13–14, 2025	PP-289	ACRM	Enhancing Engagement in Neurorehabilitation: Usability of a Novel Mobile Application	Roman Kuster
May 13–14, 2025	PP-290	ACRM	Case report: Hirayama Disease	Levent Ozgonenel
May 13–14, 2025	PP-291	INRS	Exploring Musical Feedback for Gait Retraining: A Novel Approach for Orthopedic Rehabilitation	Luisa Cedin

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May 13–14, 2025	PP-292	RESNA	Biomechanical Evaluation of Caregiver Safety During Assisted Transfers Pre and Post Education	Rutuja Kulkarni
May 13–14, 2025	PP-293	ICORR	A Novel Approach to Trunk Rehabilitation: Designing an Upper Body Robotic Mobilizer for Neurological Disorders	Giulia Bodo
May 13–14, 2025	PP-294	ICORR	An AI-Driven Telemonitoring System Exploiting Sensorized Glasses and Insoles to Correlate Cognitive Load and Mobility During ADLs	Giulia Bodo
May 13–14, 2025	PP-295	ICORR	Preliminary Results of a Multimodal Bidirectional Armband for Sensing and Feedback	Giulia Caserta
May 13–14, 2025	PP-296	ICORR	Hybrid Brain Computer Interface-Based rehabilitation addressing post-stroke maladaptive movement patterns	Giulia Savina
May 13–14, 2025	PP-297	ICORR	A Novel Template-Matching Method for Extracting Gait Cycles from Underfoot Pressure Data	Grange Simpson
May 13–14, 2025	PP-298	ICORR	Human-Interface Dynamics of Knee Exoskeletons with Lateral and Anteroposterior Attachment	Gray Thomas
May 13–14, 2025	PP-299	ICORR	Amplifying Human Strength through a Virtual Sprung Inertia	Gray Thomas
May 13–14, 2025	PP-300	IFESS	Predicting Muscle Response to FES Therapy Using Surface EMG in Individuals With Cervical SCI	Guijin Li
May 13–14, 2025	PP-301	IFESS	Electrical Stimulation to Prevent Recurring Pressure Ulcers in Individuals With a Spinal Cord Injury	Thomas Janssen
May 13–14, 2025	PP-302	ACRM	Integrating User Adaptation Metrics to Improve Exoskeleton Use Beyond Metabolic Cost	Dimuthu Kodippili Arachchige
May 13–14, 2025	PP-303	ACRM	Balance Subtypes Post-Concussion in Collegiate Athletes: Insights from Static, Dynamic, and Reactive Domains	Cecilia Monoli
May 13–14, 2025	PP-304	INRS	Toward Ground Truth: Evaluating Therapists' Reliability in Video-Based Assessment of Upper Limb Compensatory Movements Post-Stroke	Martina Spiess
May 13–14, 2025	PP-305	INRS	Exploring Patient and Therapist Experiences with Real-Time Telerehabilitation for Musculoskeletal Conditions: A Rapid Review	Martina Spiess
May 13–14, 2025	PP-306	INRS	Overcoming Activity and Participation Limitations in Children with Unilateral Congenital Below Elbow Deficiency: A Systematic Review	Martina Spiess
May 13–14, 2025	PP-307	RESNA	Opportunities and Challenges to Telehealth Implementation in Sub-Saharan Africa: A Secondary Data Analysis on Digital Infrastructures	Thierry Lienou
May 13–14, 2025	PP-308	ICORR	Design of a Semi-Active Ankle Foot Prosthesis Using a Pneumatic and Hydraulic Hybrid System to Control Stiffness and Energy Return Timing	Hwan Choi
May 13–14, 2025	PP-309	ICORR	Mantis Shrimp-Inspired Quasi Passive Ankle-Foot Prosthesis	Hwan Choi
May 13–14, 2025	PP-310	ICORR	Kinematics Estimation Using a Skin-Adhesive Strain Patch for Shoulder Rehabilitation: A Preliminary Study	Hyung-Soon Park
May 13–14, 2025	PP-311	ICORR	Development of Multimodal EEG-EMG Human Machine Interface for Hand-Wrist Rehabilitation: A Preliminary Study	Hyung-Soon Park
May 13–14, 2025	PP-312	ICORR	Intertwined digital human and robot modeling-driven development of REHAROB 3.0: the quad-arm functional upper limb rehabilitation robot	Ibolya Tavaszi
May 13–14, 2025	PP-313	ICORR	Evaluation of the Human-Like Robotic Touch: A User Study	Ilshtat Mamaev
May 13–14, 2025	PP-314	ICORR	Effect of Robotic Assistance on the Synergistic Organization of Reaching Movements	Indya Ceroni
May 13–14, 2025	PP-315	IFESS	Artificial Vision for Closed-Loop FES Systems Aimed at Assistance and Rehabilitation of Foot Drop	Jorge A. Mercado Gutierrez
May 13–14, 2025	PP-316	IFESS	Feasibility and Initial Efficacy of Smartphone-based Exercise Training After Stroke (SETS) Integrated with Functional Electrical Stimulation	Juan Pablo Appelgren-Gonzalez
May 13–14, 2025	PP-317	INRS	Bridging the Gap in Spinal Cord Injury Care: Real-World Evidence for a Technology-Enhanced Home Rehabilitation Model	Juan Pablo Appelgren-Gonzalez
May 13–14, 2025	PP-318	ACRM	Exploring the Benefits of the Behavioral Transfer Package Within Constraint Induced Therapy and Its Potential Application with New Advances in	Mary Bowman
May 13–14, 2025	PP-319	ACRM	Keys Treatment Protocol: How a Client-Centered, Potentially Reimbursable, Redistributed Delivery of Constraint Induced Movement Therapy (CIMT)	Mary Bowman
May 13–14, 2025	PP-320	RESNA	Baseline Predictors of Improvements in Clinical Balance and Gait Outcomes After Treadmill Oscillation Walking Training in Individuals Post-Stroke	Wenxi Zhang
May 13–14, 2025	PP-321	ICORR	Engineering Synthetic Soft Tissue for Accurate Human-Exoskeleton Interaction Testing	Massimo Cenciari
May 13–14, 2025	PP-322	ICORR	Digital Design Workflow for Individualized 2-DOF Ankle Exoskeletons	Hunter Schmidt
May 13–14, 2025	PP-323	ICORR	A Passive Mechanical Add-On for Treadmill Exercise (P-MATE) in Stroke Rehabilitation	Irene L. Y. Beck

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May 13–14, 2025	PP-324	ICORR	A Shared Control Approach to Safely Limiting Patient Motion Based on Tendon Strain During Robotic-Assisted Shoulder Rehabilitation	Italo Belli
May 13–14, 2025	PP-325	ICORR	A Wearable Pneumatic Platform to Automatically Assess Tactile Sensitivity	Jacopo Quaglierini
May 13–14, 2025	PP-326	ICORR	Simulating Safe Bite Transfer in Robot-Assisted Feeding With a Soft Head and Articulated Jaw	J-Anne Yow
May 13–14, 2025	PP-327	ICORR	Design of a Breakaway Utensil Attachment for Enhanced Safety in Robot-Assisted Feeding	J-Anne Yow
May 13–14, 2025	PP-328	IFESS	Efficacy and Mechanism of Cerebellar iTBS in Promoting Upper Limb Motor Recovery After Stroke	Ji-Xian Wang
May 13–14, 2025	PP-329	IFESS	rTMS for Sleep Therapy Promotes upper-limb Motor Function Recovery After Stroke by Improving the Off-Line Consolidation of Motor Learning	Chin-Hsuan Chia
May 13–14, 2025	PP-330	ACRM	Functional MRI-guided Therapeutic rTMS Strategy for Chronic Aphasia with Apraxia of Speech: A Pilot Case Series	Masahiro Abo
May 13–14, 2025	PP-331	ACRM	Prototyping a mobile application for support self-management of people with chronic low back pain: a user centered design study	Mathilde Berger
May 13–14, 2025	PP-332	INRS	The role of Rehabilitation Technology in a Personalized Care Pathway for Complex Gait Disorders	Wilders Lise
May 13–14, 2025	PP-333	RESNA	Exploring walker usage among older adults: A survey study on walker usage, prescription, and training	Yuan Li
May 13–14, 2025	PP-334	ICORR	Evaluating Convolution Neural Network Architecture for Neural Drive Decoding from High-Density Surface Electromyography	Yue Wen
May 13–14, 2025	PP-335	ICORR	A Low-Cost, Versatile, Open-Source, DIY Partial Body-Weight Support Device	Dana Lorenz
May 13–14, 2025	PP-336	ICORR	A Task-Agnostic Hip Exoskeleton for Osteoarthritis Pain Relief: Energetic Control across Activities of Daily Life	Jiefu Zhang
May 13–14, 2025	PP-337	ICORR	Optimizing Locomotor Task Sets for Training a Biological Joint Moment Estimator	Jimin An
May 13–14, 2025	PP-338	ICORR	Low-Rank Adaptation for Transformers in Dynamic Hand Gesture Recognition Using High-Density Surface Electromyography	Jirou Feng
May 13–14, 2025	PP-339	ICORR	Robotic Assessment of Cognitive and Motor Impairment in Adults with Sickle Cell Disease	Joana Opong-Duah
May 13–14, 2025	PP-340	IFESS	Understanding and Supporting Participants and Loved Ones of a Clinical Trial Testing a Novel Device to Restore Visual Perception	Kelsey Stipp
May 13–14, 2025	PP-341	IFESS	Camera Assessment of an Intracortical Visual Prosthesis for Detecting Occupied and Vacant Chairs	Patricia Grant
May 13–14, 2025	PP-342	ACRM	Meaningfulness of an Augmented Reality system for hand function feedback among individuals with cervical spinal cord injury	Damian M. Manzone
May 13–14, 2025	PP-343	ACRM	Real-time human activity recognition using minimal biomechanics features and IMU-based classification	Ehsan Sharafian Moghaddam
May 13–14, 2025	PP-344	INRS	Carers in Focus: Ongoing Study on Technological Solutions to Support Stroke Rehabilitation in Switzerland	Valeria Nina Maeusli
May 13–14, 2025	PP-345	RESNA	Scoping review of ICT interventions for participation in education, communication, and leisure in children/youth with motor disabilities	Yu-Hsin Hsieh
May 13–14, 2025	PP-346	ICORR	Improving Active Range of Motion in the Arm after Stroke with a Body-Mounted Shoulder Exoskeleton	Joel C. Perry
May 13–14, 2025	PP-347	ICORR	The Role of Muscle Property Changes in Identifying Motor Adaptation Stages for Myoelectric Control	Johanna Happold
May 13–14, 2025	PP-348	ICORR	Exploring Cortical Responses to Blood Flow Restriction through Deep Learning	Jonas Koellner
May 13–14, 2025	PP-349	ICORR	Exploring Synergy between Tactile Perception and Arm Usage	Jonathan C. van Zanten
May 13–14, 2025	PP-350	ICORR	System Performance Analysis of the Shoulder Elbow Perturbator	Jonathan C. van Zanten
May 13–14, 2025	PP-351	ICORR	Normalizing Task-Oriented Human-Robot Interaction for Large-Scale Virtual Environments	Jonathan Realmuto
May 13–14, 2025	PP-352	IFESS	Optimal Control-Driven Functional Electrical Stimulation: a scoping review	Kevin Co
May 13–14, 2025	PP-353	IFESS	Stochastic Resonance Electrical Stimulation Enhances Somatosensory Perception in Cerebral Palsy – Pilot Study	Khushboo Verma
May 13–14, 2025	PP-354	ACRM	Exploring the Role of Ankle Proprioception in Gait Recovery During Trip-Induced Perturbations	Erika McPhetridge
May 13–14, 2025	PP-355	ACRM	TMS-based neurofeedback facilitates motor imagery of different hand actions	Hsiao-ju Cheng

RehabWeek 2025 Poster Schedule				
Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 13–14, 2025	PP-356	ACRM	Treadmill-based Gait Training Using Non-Immersive Virtual Reality Improves Dynamic Balance in Chronic Stroke Survivors	Paolo Bonato
May 13–14, 2025	PP-357	INRS	Comparing Myoelectric and IMU-Based Control Strategies for Rapid Ankle Assistance in Lower-Limb Exoskeletons	Paolo Bonato
May 13–14, 2025	PP-358	INRS	Improving the health status of dysvascular amputees by deploying digital prosthetic interface technology in combination with an exercise intervention	Paolo Bonato
May 13–14, 2025	PP-359	INRS	Can a Powered Ankle-Foot Orthosis Replace Passive Orthoses in Stroke Survivors?	Paolo Bonato
May 13–14, 2025	PP-360	INRS	Using a Ring Sensor to Monitor Hand Function in Stroke Survivors	Paolo Bonato
May 13–14, 2025	PP-361	RESNA	Circular External Fixation and sitting posture: findings from a single case study	Laura Mariani
May 13–14, 2025	PP-362	ICORR	Evaluating Cognitive Workload with the Auditory Stroop Task While Using a Lower Limb Prosthesis: A Feasibility Study	Joshua Tacca
May 13–14, 2025	PP-363	ICORR	User Preferences and Information Gaps for AI-Assisted Selection of Engineered Devices for Home Rehabilitation after Stroke	Juan Carlos Perez Ibarra
May 13–14, 2025	PP-364	ICORR	Mechanical Development and Preliminary Control Results of a Cable-Driven Robotic Platform for Whole-Body Rehabilitation	Juan Fang
May 13–14, 2025	PP-365	ICORR	Preliminary Development of an End-Effector-Based System for Arm Support and Swing During Rehabilitation of Walking	Juan Fang
May 13–14, 2025	PP-366	ICORR	Sonomyography-Based Proportional Control for Isokinetic Movements: A Comparative Analysis of Features and Algorithms	Kavita Sharma
May 13–14, 2025	PP-367	ICORR	Multi-Linear Regressor for Static Posturography Estimation through an Instrumented Cane	Kaymie Shiozawa
May 13–14, 2025	PP-368	ICORR	Real-Time Estimation of Intended Lower-Limb Motion for Assist Robots	Kazuo Kiguchi
May 13–14, 2025	PP-369	IFESS	The combination of motor imagery and transcranial magnetic stimulation increases corticospinal excitability of the tibialis anterior muscle but not	Keiichi Ishikawa
May 13–14, 2025	PP-370	IFESS	Smart Electrical Stimulation and Musculoskeletal Re-Education following Injury	Koen Jongbloed
May 13–14, 2025	PP-371	ACRM	Differential activation of each quadriceps muscle by pivoting plate-based exercise in older adults	Jaewon Beom
May 13–14, 2025	PP-372	ACRM	Unifying human-centered design into implementation science projects: a case series in rehabilitation technology development.	Jonathan Lewis
May 13–14, 2025	PP-373	INRS	An Exploratory Study of a Wearable Robotic Hand Orthosis in the Chronic Stroke Population in Singapore: Preliminary Results of a Clinic to Home	Tegan Kate Plunkett
May 13–14, 2025	PP-374	INRS	Telerehabilitation using a 2-D planar arm rehabilitation robot for hemiparetic stroke: A feasibility study of clinic-to-home exergaming therapy	Tegan Kate Plunkett
May 13–14, 2025	PP-375	ICORR	Investigating kinematic and kinetic asymmetries during sit/stand movements with a powered knee-ankle prosthesis: a pilot study	Kellen Waters
May 13–14, 2025	PP-376	ICORR	Concurrent Learning Augmented DNN-Based and Admittance Control of a Hybrid Exoskeleton	Kislaya Mishra
May 13–14, 2025	PP-377	ICORR	ARISE Control of an Uncertain Lower-Limb Hybrid Exoskeleton	Kislaya Mishra
May 13–14, 2025	PP-378	ICORR	Motion Range and Control of an Escort-Type Upper Limb Rehabilitation Robot for Assisting Reaching Motion	Kiyoshi Nagai
May 13–14, 2025	PP-379	ICORR	Development and Pre-Clinical Validation of Tendon Driven 2 Degree-Of-Freedom Powered Ankle-Foot Orthosis for Heuristic Algorithm Based on	KYEONGWON KANG
May 13–14, 2025	PP-380	ICORR	Feasibility of a Customised Handgrip for a Rehabilitation Robot to Meet Specific Needs	Lutong Li
May 13–14, 2025	PP-381	IFESS	Occlusion-Corrected EMG-Based Effort Estimator for FES-Assisted Rehabilitation Applications	M Akif Gormez
May 13–14, 2025	PP-382	IFESS	The Effect of Neuromuscular Electrical Stimulation on Bowel Management in People With Chronic Spinal Cord Injury	Marie Albery
May 13–14, 2025	PP-383	ACRM	Integrating Adaptive Exergaming into a Camp-Based Intensive Therapy Program for Children with Cerebral Palsy: Feasibility and Outcomes	Mee Eriksson
May 13–14, 2025	PP-384	ACRM	Overcoming Health Disparities by Integrating AI and Technology in Stroke Rehabilitation	Mee Eriksson
May 13–14, 2025	PP-385	ACRM	Tech-driven Exergaming to Support Therapeutic Activity Targeting Upper Extremity Function in Persons with Central Nervous System Dysfunction	Mee Eriksson
May 13–14, 2025	PP-386	ACRM	Vagus Nerve Stimulation Combined with Minimally Supervised Home-based Exergame Training in a Person with Chronic Stroke, a Case Study	Mee Eriksson
May 13–14, 2025	PP-387	INRS	Feasibility of Integrating a Technology-based Exergaming System Designed to Rehabilitate the Upper Extremity of Persons with CNS Pathologies into a 4	Mee Eriksson

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 13–14, 2025	PP-388	ICORR	Interactive Gait Rehabilitation through Gamified Real-Time Biofeedback and Adaptive Hip Exoskeleton Assistance: A Preliminary Evaluation	Mariya Tohfafarosh
May 13–14, 2025	PP-389	ICORR	A Simulation Platform Combining the Myokinetic Interface with the AMI Surgery for Prosthetic Control	Marta Gherardini
May 13–14, 2025	PP-390	ICORR	Mitigating Compensatory Movements in Prosthesis Users Via Adaptive Collaborative Robotics	Marta Lagomarsino
May 13–14, 2025	PP-391	ICORR	Implementing and Testing the Novel REHAB-PAL System on Unimpaired Population: Towards Rehabilitation Engagement at Home with a Socially	Matilde Antonj
May 13–14, 2025	PP-392	ICORR	Real-Time Continuous Calibration of an EMG-Informed Neuromusculoskeletal Model for Assistive Exoskeleton Control	Matthew Hambly
May 13–14, 2025	PP-393	ICORR	Towards Safer Rehabilitation: Improving Gait Trajectory Tracking for Lower Limb Exoskeletons Using Offline Reinforcement Learning	Matthew Wong Sang
May 13–14, 2025	PP-394	ICORR	TIFEX-Py: Time-Series Feature Extraction for Python in a Human Activity Recognition Scenario	Mehdi Ejtehadi
May 13–14, 2025	PP-395	IFESS	Effect of gait-synchronized functional electrical stimulation during exoskeleton-assisted ambulation on cardiorespiratory demands in	Mario Widmer
May 13–14, 2025	PP-396	IFESS	Reusable Textile Electrodes: A Scalable Solution for Long-Term Neurostimulation Applications	Merwa Al-Rasheed
May 13–14, 2025	PP-397	ACRM	Development and initial testing of a shoulder-arm assistive device, the Shoulder-Hand Active-Passive Exoskeleton (SHAPE)	Joseph Kopke
May 13–14, 2025	PP-398	ACRM	A Comparison of Shoulder Exposure Scores for Mobility and Non-Mobility Arm Movements During Daily Life in Manual Wheelchair Users With SCI	Kathylee Pinnock Branford
May 13–14, 2025	PP-399	ICORR	Mapping the Neural Control of Force and Impedance of Wrist Movements Using Robotics and fMRI	Kristin Schmidt
May 13–14, 2025	PP-400	ICORR	Design Evaluation of a Passive Ankle Exoskeleton for Gait Training	Mac Camardo
May 13–14, 2025	PP-401	ICORR	Impedance-Controlled Knee Orthosis: Transitional Movements and Their Effect on Knee Kinematics and Muscular Activity	Marc-Anton Scheidl
May 13–14, 2025	PP-402	ICORR	Force Myography Shows Higher Correlation to Force Output Compared to ARV EMG Features	Marek Sierotowicz
May 13–14, 2025	PP-403	ICORR	Optimizing Senior Living with Robots: A User Study on Social and Architectural Integration	Marie Sartorius
May 13–14, 2025	PP-404	ICORR	Analysis of Forces Exerted by Shoulder and Elbow Fabric-Based Pneumatic Actuators for Pediatric Exosuits	Mehrnoosh Ayazi
May 13–14, 2025	PP-405	IFESS	The Role of Cutaneous Sensory Afferents in Modulating Spinal COTD Neural Pathways During Cervical Level Transcutaneous Spinal Cord Stimulation	Monique Yuan
May 13–14, 2025	PP-406	IFESS	The Effect of Transcutaneous Spinal Cord Stimulation on Proprioception	Vivian Mushahwar
May 13–14, 2025	PP-407	IFESS	Transcutaneous Spinal Cord Stimulation and Neuromuscular Electrical Stimulation: Are they better together?	Vivian Mushahwar
May 13–14, 2025	PP-408	ACRM	Effects of Rehabilitation of Spinocerebellar Degeneration Patients Using HAL Lower Limb Type: Focus on Cerebral Volumetric Changes.	Koji Tawara
May 13–14, 2025	PP-409	ACRM	Single Case Report: Trial and Feedback of Tele-Rehabilitation from Japan to Afghanistan	Koji Tawara
May 13–14, 2025	PP-410	ICORR	Integration of a Gripper-Equipped Humanoid Social Robot for EEG-Monitored Action Observation Paradigms	Michelle J. Johnson
May 13–14, 2025	PP-411	ICORR	Developing a Methodology for Quantifying Infant Interaction with a Robotic Toy	Mckenzie Davis
May 13–14, 2025	PP-412	ICORR	Identification of Neuromotor Patterns Associated with Hand Rehabilitation Movements from EMG and EEG signals	Michelle Soto Florido
May 13–14, 2025	PP-413	ICORR	Face Validity and Usability Evaluation of a Wearable Upper-Limb Motion Sensing System for Home Use	Michael D. Naish
May 13–14, 2025	PP-414	ICORR	Mapping Encoder Values to Ankle Angles in a 3 DoF Parallel Ankle Exoskeleton	Miha Dezman
May 13–14, 2025	PP-415	ICORR	Effects of Exoskeletons on Error between Marker and Markerless Motion Capture in Children with Crouch Gait: A Pilot Study	Noah Rubin
May 13–14, 2025	PP-416	ICORR	Multi-Modal Muscle Activation Modeling Using Koopman Operator Linearization for an Ankle Exoskeleton	Noor Hakam
May 13–14, 2025	PP-417	IFESS	Lower-limb Muscle Selectivity & Force Production of a Neural Cuff Electrode for Sciatic Nerve Stimulation	Noor Hakam
May 13–14, 2025	PP-418	IFESS	Koopman-Based Model Predictive Control for Ankle Dorsiflexion and Plantarflexion Assistance via FES	Mayank Singh
May 13–14, 2025	PP-419	ACRM	Intra- and inter-day effects of novel robot-assisted hand movement training in people with post-stroke hemiparesis	Kazuki Ushizawa

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 13–14, 2025	PP-422	ICORR	Design and Control of an Actuated Prosthetic Elbow to Restore Arm Swing for Persons with Upper Limb Absence	Michael Jenz
May 13–14, 2025	PP-423	ICORR	Measuring Upper Extremity Loading in Passive Exoskeleton-Assisted Gait: A Case Study	Michal Gloger
May 13–14, 2025	PP-424	ICORR	Towards a Real-Time, Interactive, Incremental Learning Algorithm for Prosthetic Myocontrol	Michele Canepa
May 13–14, 2025	PP-425	ICORR	Simultaneous Perturbation of Knee and Ankle Joints During Stance Phase of Walking: Towards Biological Joint Impedance Estimation	Michele Paravano
May 13–14, 2025	PP-426	ICORR	Running with an Exotendon Can Reduce Metabolic Rate across a Range of Speeds	Olivia Felton
May 13–14, 2025	PP-427	ICORR	Lower Limb Muscle Activities and Contractility During Stepping Response to Unexpected Waist-Pull Perturbations	Oluwasegun Akinniyi
May 13–14, 2025	PP-428	IFESS	Chronic Evaluation of a Wireless Intraspinial Interface for Motor Function Recovery in the Porcine Model	Philip Troyk
May 13–14, 2025	PP-429	IFESS	FES Bike Race preparation to Cybathlon 2024 by EMA team: a short case report with inclusion of new muscle group	Roberto Baptista
May 13–14, 2025	PP-430	ACRM	Muscle activation patterns in healthy young adults during large postural sway exercises as measured through electromyography	Kubra Akbas
May 13–14, 2025	PP-431	ACRM	The Role of Large Language Models in Enhancing Physiotherapy Services: A Review	Mansoureh Samadi
May 13–14, 2025	PP-432	ICORR	Unilateral Compliant Surfaces in Post-Stroke Gait Retraining: Enhancing Symmetry and Stability	Panagiotis Artemiadis
May 13–14, 2025	PP-433	ICORR	From Lab to Life: Correlating Lab-Based Motion Capture and Field-Based Wearable Sensor Metrics to Assess Motor Impairments in People with	Paula Villa Fulton
May 13–14, 2025	PP-434	ICORR	Real-Time Open Source Kinematic Estimation with Wearable IMUs	Peter B. Shull
May 13–14, 2025	PP-435	ICORR	Optimization of an Exosuit Design for Elbow and Shoulder Joints Considering Comfort and Safety	Pierre Garnault
May 13–14, 2025	PP-436	ICORR	Simultaneous Recognition of Locomotion Mode, Phase, and Phase Progression Using Deep Learning Models	Seung-Jong Kim
May 13–14, 2025	PP-437	ICORR	Biomechanical Effects of Modulating Pedaling Configurations on a Tilted-Plane Ergometer	Seung-Jong Kim
May 13–14, 2025	PP-438	IFESS	Human-Like Stimulation Patterns Through Reinforcement Learning for Muscle Fatigue Reduction in Functional Electrical Stimulation (FES)	Hyukjun Seo
May 13–14, 2025	PP-439	IFESS	Case Study from the Cybathlon 2024: Rehabilitation Effects of Functional Electrical Stimulation Cycling	Seung Ryeol Lee
May 13–14, 2025	PP-440	IFESS	Analysis of Muscle Activation Sequences in Vertical Jump	Sunghun Kim
May 13–14, 2025	PP-441	ACRM	Investing in Rising Rehabilitation Researchers by the C-STAR Pilot Program	Melissa Briody
May 13–14, 2025	PP-442	ACRM	Think Big, Start Small: Clinician-Initiated Interdisciplinary Grants Drive In-House Innovation	Melissa Briody
May 13–14, 2025	PP-443	ICORR	Investigation of delays and connection stability in teleoperation via VR capabilities for remote exoskeleton-aided physiotherapy	Piotr Falkowski
May 13–14, 2025	PP-444	ICORR	HADAR Hand : 13-DoF Hybrid Actuation-Based Dextrous Anthropomorphic Robotic Hand	Prashanth Jonna
May 13–14, 2025	PP-445	ICORR	Multimodal Sensor System for Continuous Monitoring in Elderly Care: A Pilot Study	Oriella Gnarra
May 13–14, 2025	PP-446	ICORR	Design and Evaluation of a Solar-Powered Modular Robotic Object Maneuvering Assistance System	S M Mizanoor Rahman
May 13–14, 2025	PP-447	ICORR	Variable Power Assistance Robotic Manipulation System for Upper Arm Rehabilitation	S M Mizanoor Rahman
May 13–14, 2025	PP-448	ICORR	Organizing and Prioritizing User Needs for Upper Limb Prostheses	Palma Borracci
May 13–14, 2025	PP-449	ICORR	On the Impact of Proprioception in EEG Representations and Decoding During Human-Hand Exoskeleton Interaction	Qiang Sun
May 13–14, 2025	PP-450	IFESS	Fully Automated Computer-Controlled Electrical Perceptual Threshold System for Sensory Assessment	Siti Nurfaezah Binti Zahari
May 13–14, 2025	PP-451	ACRM	Assessing Arm Use and Shoulder Pathology Risk Factors in Manual Wheelchair Users with SCI Using IMU Data in the Real World	Omid Jahanian
May 13–14, 2025	PP-452	ACRM	The Applicability of Smart Wearable Devices Among Individuals with Neurological Disorders	Pablo Cruz Gonzalez
May 13–14, 2025	PP-453	ACRM	A Family-centered Multi-Modal Tele-Rehabilitation Intervention for Individuals with Dementia: Randomized Controlled Trial for app	Pushkraj Marne

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 13–14, 2025	PP-454	ICORR	A Task-Agnostic Approach to Unified Multi-Activity Gait Phase Estimation Via Bilateral Sensing	Ryan Posh
May 13–14, 2025	PP-455	ICORR	Advancing Soft Rehabilitation Robotics: Evaluating the Stress and Strain Generation Capabilities of Stacked Dielectric Elastomer Actuators (SDEAs)	Sahel Mohammadi Ghalehney
May 13–14, 2025	PP-456	ICORR	Perspectives of Older Adults on Assistive Robot Support at Home	Samuel Olatunji
May 13–14, 2025	PP-457	ICORR	Spatial Robust Whole-Body Dynamic Trajectory Optimization of a Lower-Limb Exoskeleton	Shahriar Sheikh Aboumasoudi
May 13–14, 2025	PP-458	ICORR	Pupillometry for Arm and Hand Motor Intent Detection	Shane Forbrigger
May 13–14, 2025	PP-459	ICORR	Recovr Glove: Accessible Hand Exoskeleton for Stroke Rehabilitation and Everyday Aid	Sharon Zheng
May 13–14, 2025	PP-460	IFESS	Feasibility and Safety of Automated Multi-Channel FES-Assisted Gait Training in Incomplete Spinal Cord Injury	Thomas Janssen
May 13–14, 2025	PP-461	ACRM	Comparison of Data Augmentation Methods for Improving Freezing of Gait Detection Algorithms in Parkinson Disease	Rebecca Stinson
May 13–14, 2025	PP-462	ACRM	Prediction of Long-Term Functional Independence in Traumatic Brain Injury Patients: Insights from a Machine Learning-Based Retrospective Study in a	Roberto Llorens
May 13–14, 2025	PP-463	ACRM	Identifying Post-Stroke Fall Risk Through Performance in Virtual Reality Exercises: A Retrospective Machine Learning Analysis	Roberto Llorens
May 13–14, 2025	PP-464	ICORR	Challenge-Based Adaptation of Exoskeleton Assistance and Gamified Biofeedback Enables Automated Gait Rehabilitation	Siddharth Nathella
May 13–14, 2025	PP-465	ICORR	Day-To-Day User Adaptation to a Robotic Ankle-Foot Prosthesis	Sina Miri
May 13–14, 2025	PP-466	ICORR	Effects of Hip Adduction-Abduction Exoskeleton-Controlled Step Width on Mediolateral Gait Balance During Walking	Soe Lin Paing
May 13–14, 2025	PP-467	ICORR	Imitation Learning for Adaptive Control of a Virtual Soft Exoglove	Shirui Lyu
May 13–14, 2025	PP-468	ICORR	Lower-Limb Motor Imagery-Based Brain-Computer Interface to Control Treadmill Velocities	Teodiano Freire Bastos-Filho
May 13–14, 2025	PP-469	ICORR	Rehabilitation of Chronic Stroke Using Neurofeedback, Functional Electrical Stimulation, and Cerebrospinal Direct Current Stimulation	Teodiano Freire Bastos-Filho
May 13–14, 2025	PP-470	IFESS	Exploring the Mechanism of Upper Limb Functional Electrical Stimulation Therapy in Stroke Patients Using Functional Near-Infrared Spectroscopy	Chuanxin M. Niu
May 13–14, 2025	PP-471	ACRM	Effects of Training with Visual EMG Feedback on Adaptation to Ankle Exoskeleton Assistance	Sara Meschi
May 13–14, 2025	PP-472	ACRM	Evaluating the Usability of a Mobile App for Customized Exercise Prescription in Individuals with Spinal Cord Injury: A Mixed-Methods	Sara Nataletti
May 13–14, 2025	PP-473	ACRM	An Augmented Reality tool for obstacle avoidance rehabilitation paradigms	Shachar Maidenbaum
May 13–14, 2025	PP-474	ICORR	Delivering Gait Training to Children at Home with a Robotic Knee Exoskeleton: Initial Findings on Feasibility and Patient Satisfaction	Taylor Devine
May 13–14, 2025	PP-475	ICORR	User Testing for Performance and Brain Engagement with the HOPE Hand Exoskeleton for Individuals with Spasticity Due to Brain Injury	Tess B. Meier
May 13–14, 2025	PP-476	ICORR	Robotic Individualized Driving Evaluation (RIDE): Design and Preliminary Evaluation	Tim Yang
May 13–14, 2025	PP-477	ICORR	Learning Speed-Adaptive Walking Agent Using Imitation Learning with Physics-Informed Simulation	Ung Hee Lee
May 13–14, 2025	PP-478	ICORR	Structural Optimization of a Passive ExoNET for Forearm Supination	Valentino Wilson
May 13–14, 2025	PP-479	ICORR	Preference Augmented Q-Learning for Patient Exercise Scheduling in a Robotic Rehabilitation Gym	Varun Bharadwaj
May 13–14, 2025	PP-480	ICORR	Improving Wrist Tremor Suppression Via Targeted Application of Afferent and Interferential Stimulation Techniques	Vidisha Ganesh
May 13–14, 2025	PP-481	IFESS	Neural Network Torque Estimation of FES-Activated Quadriceps Using Novel Sparse Wearable Ultrasound Sensors	Vidisha Ganesh
May 13–14, 2025	PP-482	ACRM	Dependence of one's smile on the smile of the other person	Shintaro Uehara
May 13–14, 2025	PP-483	ACRM	Effect of home-based cross-education on lower limb neuroplasticity in severe stroke; a pilot study	Shravni Deshmukh
May 13–14, 2025	PP-484	ACRM	Immersive Virtual Reality for upper limb motor recovery in subacute stroke survivors: a multicenter randomized controlled trial	Sofia Straudi
May 13–14, 2025	PP-485	ICORR	Biomechanical Analysis of Repetitive Lifting with Passive Exosuit Assistance: Preliminary Results	Vineet Vashista

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May 13-14, 2025	PP-486	ICORR	Modeling and Estimation of Stiffness Imposed by Cable-based Exosuits	Vineet Vashista
May 13-14, 2025	PP-487	ICORR	Hybrid Actuation Paradigm in Back-Assist Exoskeleton for Symmetric Loading Conditions - A Feasibility Study	Vineet Vashista
May 13-14, 2025	PP-488	ICORR	Position Based Camera-2D LiDAR Fusion and Person Following for Mobile Robots	Wei Tech Ang
May 13-14, 2025	PP-489	ICORR	Design of a Rope-Driven Finger Exoskeleton System with a Universal Double Grooved Roller for Adaptive Rehabilitation	Wenqi Li
May 13-14, 2025	PP-490	ICORR	AssistADL: Intelligent Assistive Device for Patients with Neuro Degenerative Movement Disorder: Concepts and First Implementations	Winfried Ilg
May 13-14, 2025	PP-491	IFESS	Model-driven FES therapy improves gait in people with limb loss – A feasibility study	Margaux Randolph
May 13-14, 2025	PP-492	ACRM	Evidence Building for Animal Therapy in the Elderly: Validation Through Frontal Lobe Function Assessment	Tomomi Nakajima
May 13-14, 2025	PP-493	ACRM	Feasibility of a Novel Dynamic Wheelchair Armrest for Arm Movement Practice during Subacute Stroke Rehabilitation	Vicky Chan
May 13-14, 2025	PP-494	ACRM	Lower Body Positive Pressure (LBPP) Therapy Improves Gait Kinematics in Individuals with Knee Osteoarthritis: Findings of a Randomized Clinical Trial	Vikram Darbhe
May 13-14, 2025	PP-495	ICORR	Design of a Pneumatic Splint for Forearm Fracture Immobilization	Tristan McCarty
May 13-14, 2025	PP-496	ICORR	Utilizing Interlimb Coupling with Mirrored Deficit Fields for Enhanced Bilateral Arm Movement	Won-Kyung Song
May 13-14, 2025	PP-497	ICORR	An Offline Reinforcement Learning-Based Auto-Tuning Framework for Continuous Impedance Control in Powered Prostheses	Woolim Hong
May 13-14, 2025	PP-498	ICORR	Enhancing Human Walking Economy through a Biomimetic Cable-Driven Ankle Exoskeleton	Xianyu Zhang
May 13-14, 2025	PP-499	ICORR	Learning-Based Estimation of Forward Kinematics for an Orthotic Parallel Robotic Mechanism	Xiaobin Zhang
May 13-14, 2025	PP-500	ICORR	Design and Evaluation of a Single-Sided Mobility Assistive Exoskeleton (SMAEXO) for Hemiplegia	Yan Xiaoyue
May 13-14, 2025	PP-501	ICORR	FlexPAL (Flexible Pneumatic Actuated Linkage): The Future of Assistive Robotics to Improve Quality of Life	Yinan Meng
May 13-14, 2025	PP-502	ICORR	General Purpose Haptic/Biometric-Based Dynamic Difficulty Adjustment for Post-Stroke Upper-Limb Rehabilitation Games	Yiyang Shang
May 13-14, 2025	PP-503	ICORR	Toward a Customizable Body Weight Support System with Interactive Treadmill for Patients with Diverse Gait Impairments	Yongjin Jo
May 13-14, 2025	PP-504	ICORR	Multi-Channel EMS-Based Interface for Perceptual Sharing of Joint Stiffness in Telerehabilitation	Yoshiori Fujii
May 13-14, 2025	PP-505	ICORR	PLEXUS Hand: Lightweight Four-Motor Prosthetic Hand Enabling Precision Lateral Dexterous Manipulation	Yuki Kuroda
May 13-14, 2025	PP-506	ICORR	Balance Assistance without Mechanical Support Using a Virtual Cane with Haptic Feedback	Yun Seong Song
May 13-14, 2025	PP-507	ICORR	Synchronicity: A Measure of Multi-Joint Movement Coordination in Device Assessment	Yuri Gloumakov
May 13-14, 2025	PP-508	ACRM	Diagnosis and management of microvascular dysfunction in diabetes mellitus	Yih-Kuen Jan
May 13-14, 2025	PP-509	ACRM	The Impact of Gait Distance and Heart Rate Attainment on Gait Speed for Persons with Stroke	Zachary Crump
May 13-14, 2025	PP-510	ACRM	Gait training with a resistive ankle exoskeleton improves walking speed and endurance in individuals with cerebral palsy	Zachary Lerner
May 13-14, 2025	PP-511	ACRM	Gait training with ankle exoskeleton assistance temporarily improves walking endurance in individuals with cerebral palsy	Zachary Lerner
May 13-14, 2025	PP-512	ICORR	Should Ankle Exoskeletons Also Provide Assistance During Swing Phase?	Zachary Lerner
May 13-14, 2025	PP-513	ICORR	Ankle Power Biofeedback Augments Wearable Resistance for Improved Push-Off Power and Muscle Recruitment	Zachary Lerner
May 13-14, 2025	PP-514	ICORR	Head Tracking for Confirming User Selection for Human-Machine Interaction	Zeyad Ghulam
May 13-14, 2025	PP-515	ICORR	Modeling Personalized Difficulty of Rehabilitation Exercises Using Causal Trees	Zhonghao Shi
May 13-14, 2025	PP-516	ISVR	Online Cognitive Training and Well-being Measurements in Ageing Population	Natalie Nevrelava
May 15, 2025	PP-518	RW Late	Optimizing Recovery: The Impact of Hybrid Telerehabilitation on Post-Surgical Shoulder Therapy	Abby Mcinturf

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 15, 2025	PP-519	RW Late	Motor units are flexibly controlled to meet task demands	Abdulkerim Darendeli
May 15, 2025	PP-520	RW Late	Assessing Upper Limb Exoskeleton Transparency And Movement Quality Across Tasks And Ranges Of Motion.	Alex Khair
May 15, 2025	PP-521	RW Late	NeuroRecoVR: Split-Belt Treadmill Training Use in Subacute Stroke	Alexa Boyer
May 15, 2025	PP-522	RW Late	High-Density Electromyography Decomposition for Mo-Tor Unit Activity Assessment in TMS Treatment	Allie Mccune
May 15, 2025	PP-523	RW Late	Balance and Recovery Strategies in Above-Knee Amputees: A Case Study on Waist Perturbations Using s Cable-Driven System	Andrew Gunnell
May 15, 2025	PP-524	RW Late	Critical In-home Evaluation of Robotic and Passive Assistive Grasping Devices in Ten C5-C7 Spinal Cord Injured Participants	Andrew McPherson
May 15, 2025	PP-525	RW Late	Quantifying User Adaptation Through Embedded Control Metrics in BoMI Systems	Andrew Thompson
May 15, 2025	PP-526	RW Late	Determining an optimal distribution of upper limb electromechanical-assisted therapy for stroke patients	Anna Thaly
May 15, 2025	PP-527	RW Late	Investigating Muscle Activation-Dependent Interface Dynamics in Knee Exoskeleton	Anushka Rathi
May 15, 2025	PP-528	RW Late	Towards Physical-Interface Pressure Monitoring Outside the Laboratory: Merging Pressure and Force Information	Axel Gonzalez
May 15, 2025	PP-529	RW Late	Improved Gait Patterns in Hemiplegia Patients on an end effector (EE) type rehabilitation robot with a Soft Wearable Assistive Device	Bong-Keun Jung
May 15, 2025	PP-530	RW Late	formed during visuomotor adaptation are arm- and hemisphere-dependent: an anodal HD-tDCS study	Brooke Dexheimer
May 15, 2025	PP-531	RW Late	Musical Feedback from Pressure-Sensing Insoles for Gait Retraining in Asymmetric Walking	Camilla Antognini
May 15, 2025	PP-532	RW Late	Training of Chronic Stroke Survivors With Severe Upper-Extremity Impairment	Candice Maenza
May 15, 2025	PP-533	RW Late	Optimization of Surface Electromyography Sensor Placement for Intuitive and Adaptive Assistive Device Control	Carson Wynn
May 15, 2025	PP-534	RW Late	Paired Vagus Nerve Stimulation for Chronic Ischemic Stroke: Preliminary Data on Real-world Feasibility in the Home Environment	Cecilia Prudente
May 15, 2025	PP-535	RW Late	Design of a textile-based wearable robot powered by artificial muscle fiber for comfortable walking assistance	Changhwan Kim
May 15, 2025	PP-536	RW Late	Bionicohand: an opensource and collaborative myoelectric hand prosthesis	Christine Azevedo
May 15, 2025	PP-537	RW Late	Effect of Exercise combined with Injection of Adipose-derived Mesenchymal Stem Cells in a Sarcopenic Rat Model	Chul-hyun Park
May 15, 2025	PP-538	RW Late	Prosthetic Energy Modulation Using a Powered Knee-Ankle Prosthesis During Stair Ambulation: A Case Study	Clare Severe
May 15, 2025	PP-539	RW Late	Real-time feedback improves movement quality as stroke survivors perform sit-to-stand and reaching exercises	Dimitrios Palidis
May 15, 2025	PP-540	RW Late	Assistance That Learns With You: A Human-Robot Co-Adaptation Approach for Exoskeletons	Dimuthu Kodippili Arachchige
May 15, 2025	PP-541	RW Late	Unified vs. Side-Specific TCN Models for Hip Moment Estimation in Stroke Survivors	Dongho Park
May 15, 2025	PP-542	RW Late	Brain-Computer Interface for Upper Limb Rehabilitation Robots Using EEG and Non-Invasive Brain Stimulation	DSV Bandara
May 15, 2025	PP-543	RW Late	Individualized Technique for Gait Training in Older Adults Using a Wearable Haptic Feedback System	Ehsan Sharafian M.
May 15, 2025	PP-544	RW Late	Contact Improves Biomechanical but not Clinical Outcomes for Above-Knee Amputees	Emily A. Bywater
May 15, 2025	PP-545	RW Late	Nonlinear Optimization for Path Planning of a Hybrid FES-Exoskeleton System	Erin Mahan
May 15, 2025	PP-546	RW Late	Associations Between Clinical Scores and Inertial Measurement Units Metrics	Eva Josse
May 15, 2025	PP-547	RW Late	Passive Assistance for Female Healthcare Workers	Francesca Molinari
May 15, 2025	PP-548	RW Late	Clearing the hurdle for home-based tracking of arm use after stroke: A data augmentation approach for wearable IMU and AI	Franklin Zhao
May 15, 2025	PP-549	RW Late	Toward a Muscle-Synergy-Based Model of Post-Stroke Pathology in Robot-Assisted Rehabilitation	Gabriel Parra
May 15, 2025	PP-550	RW Late	Differentiating Ultrasound-Measured Active and Passive Muscle Deformation via Statistical Shape Modeling	Gavin Suelztz

RehabWeek 2025 Poster Schedule				
Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 15, 2025	PP-551	RW Late	Novel Ground Reaction Force Parameters for Gait Assessment in Post-Stroke Patients	Giorgia De Lorenzo
May 15, 2025	PP-552	RW Late	Hand Tracking in Telerehabilitation: Validation of MediaPipe for its use in an Unstructured Environment with Variable Lighting Conditions	Giovanna De Luca
May 15, 2025	PP-553	RW Late	Improving Frontal Plane Standing Balance Stability Using a Hip Abduction Exosuit	Gyeongmo Kim
May 15, 2025	PP-554	RW Late	Tongue Yoga: Precision Visual Feedback Intervention for Tongue Agility Rehabilitation	Hananeh Esmailbeigi
May 15, 2025	PP-555	RW Late	Mode-unified Strategy for Continuous Control of Knee-ankle Prostheses	Hanjun Kim
May 15, 2025	PP-556	RW Late	Motor Planning in Posterior Parietal Cortex is Critical in Motor Learning	Hidetaka Hibino
May 15, 2025	PP-557	RW Late	Use of interactive therapeutic devices in a different way for post-stroke rehabilitation	Ibolya Tavaszi
May 15, 2025	PP-558	RW Late	Adaptation of Upper Limb Joint Coordination Over Time with a Velocity-Based Synergy Avoidance Controller	Isaiah Scott
May 15, 2025	PP-559	RW Late	Altered tuning of motor unit responses to center of pressure deflections during subacute stroke rehabilitation	Jackson Levine
May 15, 2025	PP-560	RW Late	Towards Real-Time Detection of Post-Stroke Compensatory Movement Using Two Inertial Measurement Units	Jannis Gabler
May 15, 2025	PP-561	RW Late	Towards human-like object manipulation: Human-to-robot motion retargeting with multimodal variational auto-encoder	Jialu Yu
May 15, 2025	PP-562	RW Late	Exploring the Impact of Bilateral Knee Joint Assistance in Lower-Limb Exoskeletons on Gait Mechanics in Stroke Patients	Jian-jia Huang
May 15, 2025	PP-563	RW Late	Enhancing 6-DoF Rehabilitation Task Guidance with Augmented Reality	Jono Jenkins
May 15, 2025	PP-564	RW Late	Embedded closed-loop controller for hand mirror therapy based on Functional Electrical Stimulation and inertial sensors.	Jorge A. Mercado-gutierrez
May 15, 2025	PP-565	RW Late	the Design of Personalized, Two-Channel FES Patterns for Foot Drop Rehabilitation	Jorge A. Mercado-Gutierrez
May 15, 2025	PP-566	RW Late	Design and Characterization of an Adaptive Grip Force Measurement and Feedback System for Hand Rehabilitation	Jorge A. Mercado-Gutierrez
May 15, 2025	PP-567	RW Late	A Semi-Active Ankle Prosthesis for Walking and Stair Ambulation	Vishnu Aishwaryan Subra Mani
May 15, 2025	PP-568	RW Late	An in-hand exoskeleton mechanism for post-stroke rehabilitation	Weiheng Xue
May 15, 2025	PP-569	RW Late	Seamless Personalization of Exoskeleton Assistance Through Ambient Optimization	Yosemite Pinedo
May 15, 2025	PP-570	RW Late	Cathodal HD-tDCS on contralesional dorsal premotor cortex reduces post-stroke motor impairments	Yuan Yang
May 15, 2025	PP-571	RW Late	Validating the transmitted force-sensing SEA for lightweight and accurate torque control	Zachary Bons
May 15, 2025	PP-572	RW Late	Sex and motor reserve influence recovery of gait after tele-rehabilitation in Parkinson's Disease	Francesca Baglio
May 15, 2025	PP-573	RW Late	Investigating Neural Variability in Emotional Processing: Effects of EMDR Rehabilitation in Multiple Sclerosis	Valeria Blasi
May 15, 2025	PP-574	RW Late	Quantifying the Relative Energy Cost of Reactive Decision-Making and Foot Placement Constraints during Dynamic Multi-Terrain Ambulation	Bora Erbil
May 15, 2025	PP-575	RW Late	Therapeutical Treatment: Functional Changes in Brainstem Supraspinal Control: Multifunctional	Christof Peter Ziaja
May 13-14, 2025	PP-576	ACRM	Development of a Family-Centered Home Video Assessment of Activity and Participation of Children with Disabilities	Naomi Gefen
May 13-14, 2025	PP-577	ACRM	Improvement in the Capacity for Activity Versus Improvement in Performance of Activity in Daily Life During Outpatient Rehabilitation	Caitlin Newman
May 15, 2025	PP-578	RW Late	Reduced Muscle Fatigue Using Continuous Subthreshold Kilohertz Stimulation of Peripheral Nerves	Xiaogang Hu
May 15, 2025	PP-579	RW Late	REACT + LUCI: Reactive Driver Assistance for Powered Wheelchairs	Larisa Loke
May 13-14, 2025	PP-580	ACRM	Leveraging Cough Skill and Cough Strength Paradigms to Promote Healthy Out	Caitlin Wright
May 15, 2025	PP-581	RW Late	A Synergy-Based Hybrid Robotic-FES Approach for Upper Limb Rehabilitation	Tommaso Del Grossi
May 15, 2025	PP-582	RW Late	A parametric numerical platform to analyze and optimize prosthesis shock abs	Sudeesh Subramanian

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 15, 2025	PP-583	RW Late	Sensorimotor adaptation as a means of testing robustness of human-robot inte	Nick Kitchen
May 13–14, 2025	PP-584	ACRM	Pre-perturbation cortical beta activity is associated with impaired reactive bal	Peter Fino
May 15, 2025	PP-585	RW Late	Socially Comparative Effort Feedback Increases Motor Engagement During The	Julia Manczurowsky
May 15, 2025	PP-586	RW Late	Task Agnostic Lower Limb Joint Angle Predictions via Machine Learning Sensor	Juliana Iverson
May 15, 2025	PP-587	RW Late	Novel Sonomyography Feature Recovery Allows for Subject Independent Joint	Juliana Iverson
May 15, 2025	PP-588	RW Late	An innovative passive knee prosthesis featuring discrete stiffness levels to pro	Julien Guiaux Brinon
May 15, 2025	PP-589	RW Late	Fabric Pneumatic Artificial Muscle Actuated Exosuits for At-Home Patient Care	Katalin Schäffer
May 15, 2025	PP-590	RW Late	A Case Series of Virtual at Home Therapy for Upper Limb Rehabilitation Post-S	Kathryn Riccio
May 15, 2025	PP-591	RW Late	In-Silico Demonstration of Center-Selective Neural Activation in Peripheral Ne	Ken Yoshida
May 15, 2025	PP-592	RW Late	An accessible, cost-effective AI-Assisted Rehabilitation System for Guided Up	Kevin Hou
May 15, 2025	PP-593	RW Late	Efficacy of Inverse Reinforcement Learning for Internal Physiological Reward M	Keya Ghonasgi
May 15, 2025	PP-594	RW Late	Personalized tuning is an important factor for metabolic cost reduction in a po	Kinsey Herrin
May 15, 2025	PP-595	RW Late	Unlocking Stroke Recovery: Real-World Use of a Brain-Computer Interface Rehabilitation Device	Lauren A Souders
May 15, 2025	PP-596	RW Late	Unified control of a powered knee-ankle prosthesis enables natural ambulation	Liam Sullivan
May 15, 2025	PP-597	RW Late	Hybrid Brain-Computer Interface for Pediatric Wheelchair Control: A Human-C	María Insuasty-Pineda
May 15, 2025	PP-598	RW Late	Active Knee Prosthesis Improves Walking Economy in Individuals with a Transf	Marissa Cowan
May 15, 2025	PP-599	RW Late	Physical Human Environment Force Interaction Predicts Prosthetic Foot Clinic	Marissa Pirritano
May 15, 2025	PP-600	RW Late	Agonist-Antagonist SoftFoot Pro: A Prosthetic Foot with Adaptive Sole and Agon	Matteo Crotti
May 15, 2025	PP-601	RW Late	Adaptive Game-Based Therapy for Bed-Mounted 3DOF Lower Limb Exoskeleton	Md Enamul Haque
May 15, 2025	PP-602	RW Late	Modeling the Biomechanical Factors Affecting the Metabolic Rate of Walking w	Mikayla Schneider
May 15, 2025	PP-603	RW Late	Benefits of Parallel Elasticity to Reduce RMS Knee Torque during Sit-to-Stand T	Minho Lee
May 15, 2025	PP-604	RW Late	Enhancing hip extension moments during gait initiation for studying abnormal	Mounika Pasavula
May 15, 2025	PP-605	RW Late	Forecasting Gait Kinetics and Kinematics for Biological Joint Impedance Estim	Nana Porter-Honicky
May 15, 2025	PP-606	RW Late	Anodal high-definition transcranial direct current stimulation to the left poster	Paul Ruelos
May 15, 2025	PP-607	RW Late	3D Upper Extremity ExoNET: Improved Passive Exoskeleton for Gravity Compe	Pietro Bonato
May 15, 2025	PP-608	RW Late	Task-Dependent Brainstem Activity Revealed by fMRI During Robotic Perturbat	Rebecca Nikonowicz
May 15, 2025	PP-609	RW Late	Experimental Validation Of Gradient Descent Upper-extremity Exoskeleton Co	Rhet Hailey
May 15, 2025	PP-610	RW Late	Multi-Element Omnidirectional Hip Exosuits Enable Precise Tuning of Assistan	Ross Neuman
May 15, 2025	PP-611	RW Late	Musculoskeletal Modeling and Predictive Simulation Explain Heterogeneous G	Russell Johnson
May 15, 2025	PP-612	RW Late	Expanding Commercial Hand Exo Accessibility with Side-by-side Functional El	Ryan Cuda
May 15, 2025	PP-613	RW Late	Preliminary Biomechanical Study of Enhancing Sprinting Performance via Hip	Sangeui Lee
May 15, 2025	PP-614	RW Late	Dynamic Ultrasound Imaging of Musculature Can be used to Control Functional Electrical Stimulation to Achieve Desired Kinematics	Shrinivas Patwardhan

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Poster Display Dates	Poster No	Society	Abstract Title	Presenter
May 15, 2025	PP-615	RW Late	Biomechanical Responses of Individuals with Transfemoral Amputation to Cer	Sixu Zhou
May 15, 2025	PP-616	RW Late	The Effects of Deep Brain Stimulation on the Neurovascular Unit in Human Intr	Srdjan Sumarac
May 15, 2025	PP-617	RW Late	A New Paradigm for Rehabilitation Robots: Synergizing Human Expertise with Robotic Assistance	Stefano Dalla Gasperina
May 15, 2025	PP-618	RW Late	Towards a Distinct Experience and Optimum Quality of Life for Stroke Patients	Sultana Al Harbi
May 15, 2025	PP-619	RW Late	Bimanual Rehabilitation Through Gamified Hand Tracking for Stroke Patients: A	Teresa Puzi
May 15, 2025	PP-620	RW Late	Stretch reflex hyperexcitability persists during volitional reaching in chronic he	Thomas Plaisier
May 15, 2025	PP-621	RW Late	SHORT TERM CHANGES IN CORTICAL DOMINANCE AND CONNECTIVITY AFTER	Toka Mootaz AboElnour
May 15, 2025	PP-623	RW Late	Neuromechanical interactions during reaching in health and after stroke	Valeriya Gritsenko
May 15, 2025	PP-624	RW Late	Visualizing Activity Participation in Digital Twins: Perspectives from Occupatio	Vera Kaelin
May 13-14, 2025	PP-625	ACRM	Short and long-term pilot studies of volition-induced paired associative stimulation on	Risha DeGamia
May 13-14, 2025	PP-626	ACRM	Enhancing motor learning after stroke by combining sleep-based targeted men	Abed Khorasani
May 13-14, 2025	PP-627	ACRM	Demonstrating Feasibility of Optomyography for Active Prosthetics Using Machine Learning	Jongsang Son
May 13-14, 2025	PP-628	ISVR	Early Detection of Postural Instability in Individuals with Diabetic Peripheral Neuropathy Using a Novel Smartphone Application	Geoffrey Wright
May 13-14, 2025	PP-629	ACRM	Human Factors Validation Testing of the Hands-Free Personal Exoskeleton	Joshua Breighner
May 13-14, 2025	PP-630	ACRM	Significant Motor and Functional Gains Achieved with Telehealth-Only Outpati	Kristin Nuckols
May 13-14, 2025	PP-631	RESNA	Smart and Robotic Innovative Technology To Support People Aging with Disabil	Laura Rice
May 13-14, 2025	PP-632	RESNA	Application of additive manufacturing for personalized male urinary assistive d	Ashleigh Holubeck-Gotts