

Poster Board Number	Society	Title	Presenter
P-001	ACRM	Upper limb movement performance in individuals with concussions	Sandeep Subramanian
P-002	Late	Upper limb dual task performance in individuals with mild traumatic brain injuries.	Sandeep Subramanian
P-003	ACRM	Enhancing Post Stroke Cognitive Impairment (PSCI) and Return to work by Using Computer Game Cognitive Trainer: A case report	Dian Giriningrum
P-004	Late	Effects of 12 weeks Exergame on Patients' Balance and Fall Risk Hemorrhage Stroke for Back to Work: A case report	Dian Giriningrum
P-005	ICORR	Severe stroke patient assessment using a robotic rehabilitation device	Yolanda Vales Gómez
P-006	Late	Intelligent system for evaluating upper limb motor function in hemiparesis patients	Yolanda Vales Gómez
P-007	INRS	The effects of additional electrical stimulation combined with repetitive transcranial magnetic stimulation and motor imagery on upper extremity motor recovery	Young Ah Choi
P-008	Late	Obesity Impairs Functional Recovery of Older Stroke Patients with Possible Sarcopenia	Young Ah Choi
P-009	ICORR	Harnessing the Power of Movement: A Body-Weight Support System & Assistive Robot Case Study	Ameer Helmi
P-010	Late	Illuminating Engagement: Real-Time Thermal Imaging of Child Affect During Child-Robot Interactions	Ameer Helmi
P-011	ICORR	Hybrid Electrical Stimulation and Robotic Assistance for Wrist Motion Training after Stroke: Preliminary Results	Lucille Cazenave
P-012	Late	Application of HRX-1 portable robot for rehabilitation and neuromechanics research	Lucille Cazenave
P-013	Late	Development of a Multidimensional Difficulty Modulation Algorithm for Robot-Based Stroke Rehabilitation	Lucille Cazenave
P-014	INRS	Dual-Task Training with Computer Games for Improving Balance and Cognitive Function in Children with Cerebral Palsy: Insights from User Perspectives	Bruno Bonnechère
P-015	Late	TechnoRehabLab: Fostering Interprofessional Collaboration and Innovation in Rehabilitation Technology	Bruno Bonnechère
P-016	Late	Advocating for rehabilitation: The World Rehabilitation Alliance's Global Initiative	Bruno Bonnechère
P-017	ACRM	Feasibility of Knee Hyperextension Controlling Robot-assist Treadmill-based Gait Training System	Na Young Kim
P-018	ASEAN	Feasibility of Knee Hyperextension Controlling Robot-assist Treadmill-based Gait Training System	Na Young Kim
P-019	ACRM	Characterizing trajectories of movement using ultrasound imaging to aid the design of human machine interfaces	Shriniwas Mahesh Patwardhan
P-020	INRS	Closed-loop Shared Proportional Position Control of a Prosthetic Hand using Sonomyography	Shriniwas Mahesh Patwardhan
P-021	INRS	Sonomyography shows feasibility as a tool to quantify joint movement at the muscle level	Shriniwas Mahesh Patwardhan
P-022	ACRM	Validity and reliability of several intensity measures in children with neurological diagnoses during upper limb robotic therapy	Gaizka Goikoetxea Sotelo
P-023	ICORR	A Tailorable Robotic Hand Orthosis to Support Children with Neurological Hand Impairments: a Case Study in a Child's Home	Gaizka Goikoetxea-Sotelo
P-024	ICORR	Towards AI-controlled FES-restoration of movements: Learning cycling stimulation pattern with reinforcement learning	Nat Wannawas
P-025	IFESS	A muscular fatigue model for surface functional electrical stimulation	Nat Wannawas
P-026	ACRM	Applying Concurrent Auditory Feedback on Swing Phase Kinematics in Hemiparetic Gait Training	Prithvi Ravi Kantan
P-027	ASEAN	User-Centered Design of Auditory Feedback for Hemiparetic Gait Rehabilitation	Prithvi Ravi Kantan
P-028	ICORR	Effectiveness of Visual Feedback in Reducing Trunk Compensation during Arm Reaching for Home-based Stroke Rehabilitation	Won-Kyung Song
P-029	INRS	Visual error augmentation robot-assisted upper limb therapy for upper limb kinematics after chronic stroke survivors	Won-Kyung Song
P-030	ICORR	Gamification of Physical Therapy Exercises using Commercial Entertainment Content: A Safety and Feasibility Study	David Rode
P-031	INRS	The iARAT: Relationship between clinical scoring and arm movement quality metrics in the Action Research Arm Test	Chris Awai Easthope
P-032	IFESS	The implementation of Translingual Neurostimulation (TLNS) for treating balance impairments in pediatric patients with Cerebral Palsy.	Evgeny Bugorsky
P-033	INRS	Effective Alalia Rehabilitation Using Translingual Neurostimulation (TLNS): A Pilot Controlled Study.	Evgeny Bugorsky
P-034	Late	Effective Dysarthria (Re)habilitation using Translingual Neurostimulation (TLNS): A controlled pilot study	Evgeny Bugorsky
P-035	ASEAN	Usage of Rehabilitation Technologies for Telerehabilitation to Ensure Smooth Transition from Hospital to Home	Lilian Lim Xiao Min
P-036	INRS	Utilising feedback on rehabilitation technologies during trial phase to inform purchase and enhance usage	Lim Lilian Xiao Min
P-037	ACRM	Robotic-based upper-limb training for chronic stroke survivors with somatosensory deficits	Ananda Sidarta
P-038	ACRM	Assessing and intervening somatosensory deficits post stroke: A questionnaire study	Ananda Sidarta
P-039	ASEAN	The Use of Robotic Technology in Retraining Sensorimotor Functions Post Stroke in Singapore: A Questionnaire Study	Ananda Sidarta
P-040	IFESS	20 Hz Transcranial Alternating Current Stimulation Modulates Dynamic Brain Network Interactions in Chronic Stroke	Raymond Kai-Yu Tong
P-041	INRS	The training effect of HD-tDCS with EMG-triggered robot hand training, a randomized control study	Raymond Kaiyu Tong
P-042	ICORR	Augmented Reality Feedback for Exoskeleton-Assisted Walking. A Feasibility Study.	Eduardo Rocon
P-043	ICORR	Individualized three-dimensional gait pattern generator for lower limbs rehabilitation robots	Eduardo Rocon
P-044	ACRM	Virtual Reality in the Rehabilitation of Chronic Non-Specific Neck Pain: A Systematic Review and Meta-Analysis	Ryan Koh

P-045	ACRM	Identifying Myofascial Trigger Point in B-mode Ultrasound: Texture Analysis vs a Convolutional Neural Network Approach	Ryan Koh
P-046	ACRM	Automatic Region of Interest placement in B-Mode Ultrasound Imaging using U-Net and Transfer Learning	Ryan Koh
P-047	ACRM	Investigation of Passive Stretching on Trigger Point parameters using Ultrasound and High-Density Electromyography in Myofascial Pain Syndrome: A Preliminary Study	Ryan Koh
P-048	INRS	Barriers and Facilitators to the Use of Wearable Robots as Assistive Devices – Views and Experiences of Older Adults and Physiotherapists	Eveline S Graf
P-049	INRS	Technology-Based Gait Training in People With Chronic Gait Impairments – Is It Worth It?	Eveline S Graf
P-050	INRS	Utilizing Rehabilitation Technologies for Health-Enhancing Physical Activity Interventions in People With Severe Mobility Impairments – A Scoping Review	Eveline S Graf
P-051	ICORR	Quantitative and Qualitative Evaluation of Exoskeleton Transparency Controllers for Upper-limb Neurorehabilitation	Stefano Dalla Gasperina
P-052	ICORR	Development and Validation of a Kinematically Accurate Upper-Limb Exoskeleton Digital Twin for Stroke Rehabilitation	Alexandre Lionel Ratschat
P-053	INRS	Development of Novel Dysphagia Evaluation via Video Analysis Based on Deep Learning Method in Neonates and Infants: A Preliminary Study	Garam Hong
P-054	INRS	Development of Core Technology for Diagnosing Spatial-Temporal Intelligence Using AI-Based Video Analysis of Children with Developmental Delay: A Pilot Study	Garam Hong
P-055	IFESS	STANDARDS AND CERTIFICATION REQUIREMENTS OF FES DEVICES: A REVIEW	Nur Azah Hamzaid
P-056	IFESS	APPLICATION OF NEUROMUSCULAR ELECTRICAL STIMULATION (NMES) IN COMPLEX NEUROLOGICAL DISEASES IN REAL CLINICAL SETTING	Nur Azah Hamzaid
P-057	ICORR	Adaptive filter for biosignal-driven force controls preserves predictive powers of sEMG	Marek Sierotowicz
P-058	ICORR	I am machine: robot-inspired control of the human limb through functional electrical stimulation	Marek Sierotowicz
P-059	INRS	Transcranial Magnetic Stimulation on Somatosensory Cortex Enhances Motor Learning in People With Stroke	Alfredo Lerín-Calvo
P-061	INRS	Repetitive Transcranial Magnetic Stimulation and Task-oriented Training for Handwriting Rehabilitation After a Tumor. A Case Report Based on a Multidisciplinary Approach.	Alfredo Lerín-Calvo
P-062	ICORR	Hip Exoskeleton Based Indirect Intervention Strategy Towards Gait Training After Total Knee Arthroplasty	Zilu Wang
P-063	ICORR	Robotic Brace Based Multi-Dimensional Assessment for Trunk Ability: A Preliminary Study in Patients with Spinal Cord Injury	Qining Wang
P-064	IFESS	A system for controlling upper-limb electrode arrays	Lucas R. L. Cardoso
P-065	IFESS	Comparing Discrete and Continuous Shoulder Control	Lucas R. L. Cardoso
P-066	ICORR	Gait Phase Estimation in Steady Walking: A Comparative Study of Methods Based on the Phase Portrait of the Hip Angle	Ali Reza Manzoori
P-067	ICORR	State-based Versus Time-based Estimation of the Gait Phase for Hip Oral Presentation in Steady and Transient Walking	Ali Reza Manzoori
P-068	ACRM	Privacy Protecting Detection of Agitation in People with Dementia using Videos	Shehroz S Khan
P-069	ACRM	Applications and Effectiveness of Integrating Artificial Intelligence with Home-based Virtual Rehabilitation: a Scoping Review	Shehroz S Khan
P-070	ICORR	INSPIRE A Modular and Passive Exoskeleton to Investigate Human Walking and Balance	Mohamed Bouri
P-071	ICORR	Immediate effect of ankle exoskeleton on spatiotemporal parameters and center of pressure trajectory after stroke	Tristan Vouga
P-072	ACRM	RoboJimPic-An Approach to Creating a Robot Friendly Society-	Koji Tawara
P-074	ICORR	A method of detecting human movement intentions in real environments	Yixing Liu
P-075	ICORR	An Integrated Eye-Tracking and Motion Capture System in Synchronized Gaze and Movement Analysis	Yixing Liu
P-076	IFESS	HYBRID MOTOR NEUROPROSTHESIS FOR UPPER LIMB REHABILITATION AFTER STROKE	Christine Azevedo-Coste
P-077	IFESS	USER REQUIREMENTS FOR UPPER LIMB HYBRID MOTOR NEUROPROSTHESIS	Christine Azevedo-Coste
P-078	ACRM	Effects of Patient Driven Passive Hand Function Therapy using a Real Time Digital and Gamified Interface on Functional Hand Abilities in Chronic Stroke	Vineet Johnson
P-079	ACRM	Changes in Hand Function in Chronic Strokes after Using a Novel Passive Hand Function Therapy Device for 3 Weeks	Vineet Johnson
P-080	ICORR	Subject-Specific and COM Acceleration-Enhanced Reflex Neuromuscular Model to Predict Ankle Responses in Perturbed Gait	Lucas Avanci Gaudio
P-081	ACRM	Effectiveness of an Exercise Program for Older Adults Using an Augmented Reality Exercise Platform: A Pilot Study	Tae Sung Park
P-082	ICORR	Synergy-driven musculoskeletal modeling to estimate muscle excitations and joint moments at different walking speeds in transtibial amputees	Federica Damonte
P-083	INRS	Accuracy Analysis of Sensors Implemented in Conventional Exoskeletons to Support the Upper and Lower Extremities	Matthias Scherer
P-084	ASEAN	Real-time Detection of Signal Artefacts and Muscle Fatigue using a Multi-channel Digital Electromyography Sensing System	Eisa Aghchehli
P-085	ICORR	Comparison of two designs principles of unpowered ankle-foot orthoses for supporting push-off: a case study	Cristina Bayon
P-086	ACRM	Effect of Transcranial Direct Current Stimulation Depending on Stimulation Sites to Improve Dual-task Performance in Parkinson's Disease	Seo Jung Yun
P-087	ICORR	Evaluation of a Passive Wearable Device for Post-Stroke Shoulder Abduction Support	Elizabeth Vasquez
P-088	INRS	Implementation of novel Virtual reality technology into multidisciplinary outpatient therapy practice.	Matthew Wilks

P-089	ICORR	Investigating the Effect of Novel Gamified Stepper on Lower Limb Biomechanics in Seated Healthy Subjects	Emre Beycan
P-090	ACRM	Attitude toward virtual rehabilitation among rehabilitation therapist in Korea; a survey study	Won-Seok Kim
P-091	ICORR	1D-Convolutional Neural Networks can quantify therapy content of children and adolescents walking in a robot-assisted gait trainer	Florian van Dellen
P-092	IFEES	EFFECT OF FUNCTIONAL ELECTRICAL STIMULATION ON MITO-CHONDRIAL ACTIVITY OF STROKE PATIENTS: QUASY-EXPERIMENTAL STUDY PROTOCOL DESIGN	Aitor Martín-Odriozola
P-093	ICORR	Gait-oriented post-stroke rehabilitation tasks online trajectory generation for 1-DOF lower-limb exoskeleton	Gaëtan Courtois
P-094	ACRM	Exploring the Opportunity Telerehabilitation via Mobile Application in Stroke Rehabilitation: Qualitative Study	Muhammad Darwis
P-095	ICORR	A Novel Tilted-Plane Ergometer System for Subject-Specific Rehabilitation	Seonghyun Kang
P-096	INRS	Usability and Feasibility Study of Myosuit-based gait training for Ambulatory Neurological Patients with Gait Disorders	Liliana Paredes
P-097	ICORR	Spatial and Temporal Analysis of Normal and Shear Forces During Grasping, Manipulation and Social Activities	Theophil Spiegeler Castaneda
P-098	IFEES	Effect of Neuromuscular Electrical Stimulation with Different Frequencies on Spinal Reflex Circuits in the Tibialis Anterior Muscle	Suzufumi Arai
P-099	ICORR	On the usability of polymer-based artificial tendons for elastic energy storage in active ankle prostheses	Jeanne Evrard
P-100	INRS	Use of Technology-Supported Home Exercise Program in Stroke Rehabilitation: Therapist's Perspectives	Lena Sauerzopf
P-101	ICORR	Continuous Phase Estimation in a Variety of Locomotion Modes using adaptive Dynamic Movement Primitives	Huseyin Eken
P-102	ICORR	Control of a Back-Support Exoskeleton to Assist Carrying Activities	Maria Lazzaroni
P-103	ACRM	Predicting Motor Impairments in Stroke Patients with Deep Learning and Gait Kinematics Data	Patrick Kwong
P-104	ICORR	The Use of Kinematic Features in Evaluating Upper Limb Motor Function Learning Progress Based on Machine Learning	Shuhao Dong
P-105	ASEAN	Knee Extensor Strength Estimation in The Elderly Using Just Sit-To-Stand Video Analysis	Keewon Kim
P-106	ICORR	Instrumented upper limb functional assessment using a robotic exoskeleton: normative references intervals	Alessandra Pedrocchi
P-107	ACRM	Integration of Upper Limb Robotics into Paediatric Intensive Rehabilitation	Rae Robinson
P-108	ICORR	Transferability of a Sensing Mattress for Posture Classification from Research into Clinics	Oriella Gnarra
P-109	ICORR	Wrist EMG Improves Gesture Classification for Stroke Patients	Connor Olsen
P-110	IFEES	EFFECTS OF ELECTRICAL MUSCLE STIMULATION ON MYO-FASCIALS PAIN SYNDROME: A PRELIMINARY STUDY	Seekaow Churproong
P-111	ICORR	Intuitive, Myoelectric Control of Adaptive Sports Equipment for Individuals with Tetraplegia	Monika Buczak
P-112	ICORR	Hybrid Rehabilitation System with Motion Estimation Based on EMG Signals	<i>Kensuke Takenaka</i>
P-113	ICORR	A Novel Control Strategy for Bionic Prosthetic Arms based on IMU Sensors	Dario Di Domenico
P-114	ICORR	Highly Integrated SEA for Upper Limb Robotic Rehabilitation Based on Custom Compliant Element Design	Giulia Bodo
P-115	ACRM	MRI measured muscle volume and fat fraction adaptation in patients with transfemoral bone-anchored prostheses	Ruud Leijendekkers
P-116	ICORR	Exploiting Natural Locomotion Synergies to Incorporate Motion of Crutches for Adaptive Gait Pattern Shaping	Christian Vassallo
P-117	IFEES	A flexible modular electrical stimulator system	Qing Cao
P-118	ICORR	Development and Validation of a Flexible Sensing Array for Placement within the Physical Human-Exoskeleton Interface	Rory Peter Turnbull
P-119	ICORR	Exploring the Feasibility of Computer Vision for Detecting Post-Stroke Compensatory Movements	Hao-Ping Lin
P-120	ICORR	A Wearable Device for Hand Sensorimotor Rehabilitation through Augmented Sensory Feedback	Eleonora Vendrame
P-121	ACRM	Why am I in this state: A qualitative study exploring how stroke survivors in Singapore cope with the psycho-emotional consequences of stroke	Eloise Lie
P-122	ICORR	The effect of feedback modality when learning a novel wrist sensorimotor transformation through a Body-Machine Interface	Giulia Aurora Albanese
P-123	ICORR	Cooperative Goal Generation for Reaching Tasks in Robot-Assisted Rehabilitation	Michael Sommerhalder
P-124	ICORR	An Experimental Setup to Test Obstacle-dealing Capabilities of Prosthetic Feet	Anna Pace
P-125	ICORR	Systematic evaluation of a knee exoskeleton misalignment compensation mechanism using a robotic dummy leg	Stefano Massardi
P-126	IFEES	The potential of Functional Electrical Stimulation to support grasping of differently shaped objects after stroke: a randomized cross-over study	Chiara Höhler
P-127	ICORR	VIBES: Vibro-Inertial Bionic Enhancement System in a Prosthetic Socket	Alessia Silvia Ivani
P-128	ICORR	Does a soft actuated back exosuit influence multimodal physiological measurements and user perception during an industry inspired task?	Mohamed Refai
P-129	ICORR	Human-Centered Functional task Design for Robotic Upper-Limb Rehabilitation	Federico Tessari
P-130	ICORR	Adaptive gravity compensation framework based on human upper limb model for assistive robotic arm extender	Sibo Yang
P-131	IFEES	EVIDENCE FOR USING THE NOCICEPTIVE WITHDRAWAL REFLEX FOR REHABILITATION OF HEMIPARETIC GAIT	Erika G. Spaich
P-132	ICORR	Towards Translation of Novel Neurorehabilitation Systems: A Practical Approach to Usability Testing	Kelly Clanchy
P-133	ICORR	The Study of Complex Manipulation via Kinematic Hand Synergies: The Effects of Data Pre-Processing	A. Michael West Jr.

P-134	ACRM	Smartphone App for patients with hemiplegia to support self-administered graded upper extremity exercise using deep learning model: Development and Usability Study	Seung Nam Yang
P-135	ICORR	Enhancing Sleep Quality with Closed-Loop Autotuning of a Robotic Bed	Alexander Breuss
P-136	ASEAN	Co-design of AVA: AI-Driven Virtual Assistant for Home-based Virtual Rehabilitation	Ali Abedi
P-137	ICORR	Individualized Training of Back Muscles using Iterative Learning Control of a Compliant Balance Board	Kim Kristin Peper
P-138	ACRM	Neurophysiological mechanisms of recovery after bilateral motor cortex transcranial direct current stimulation in a patient with persistence minimally conscious state: a case report	Yusaku Takamura
P-139	ICORR	Model-based upper-limb gravity compensation strategies for active dynamic arm supports	Maxime Manzano
P-140	IFESS	Spatially Distributed Sequential Stimulation of Paralyzed Quadriceps Muscles in Functional Electrical Stimulation Cycling	Ehsan Jafari
P-141	ICORR	Skeleton Tracking Solutions for a Low-cost Stroke Rehabilitation Support System	Ana C3ias
P-143	ICORR	Model Predictions that Consider Individualized Gait Patterns and Patient Mobility Level for the Use of Passive Hip-Flexion Exosuits by Persons with Unilateral Transfemoral Amputation	Finn Eagen
P-144	ASEAN	Ecological momentary assessment for chronic back pain in patients with adolescent idiopathic scoliosis	Lijuan REN
P-145	ICORR	Center-of-mass based foot placement in stumble recovery	Maura Eveld
P-146	IFESS	Development of a Real-time Brain-controlled Transcutaneous Spinal Cord Stimulation System for Corticospinal Neuroplasticity: A Case Study	Rizaldi A. Fadli
P-147	ICORR	Grip Force Dynamics during Exoskeleton-Assisted and Virtual Grasping	Christian Ritter
P-148	INRS	Intention-directed Brain-Machine Interface for Motor Rehabilitation of Upper Limb: A Case Study	Yongcheng Guo
P-149	ICORR	An Exploratory Multi-Session Study of Learning High-Dimensional Body-Machine Interfacing for Assistive Robot Control	Jongmin Lee
P-150	ICORR	Multi-Objective Optimization-based Assist-as-needed Controller for Improved Quality of Assistance in Rehabilitation Robotics	Kithmi Nima Dickwella Widanage
P-151	ICORR	Guided exploration leads to faster familiarization with a wearable robot: first results of an innovative protocol	Robert Riener
P-152	ICORR	Automated Quantifiable Assessments of Sensorimotor Function Using an Instrumented Fragile Object	Michael Adkins
P-153	ICORR	Movement Reminders to Encourage Arm Use during Daily Life in Stroke Patients	Laura Mayrhuber
P-154	IFESS	Anodic transcutaneous spinal cord stimulation for eliciting upper limb motion: an alternative hypothesis.	Leen Jabban
P-155	ICORR	Feasibility Study: Towards a Robot-Assisted Gait Training in Ophthalmological Rehabilitation	Andrea Scheidig
P-156	INRS	Telerehabilitation using a 2D planar arm rehabilitation robot for hemiparetic stroke: Preliminary results of a pilot feasibility trial	Karen SG Chua
P-157	ICORR	Biomechanic gait effects of a wearable closed loop control algorithm FES system in neurologic foot-drop people. A proof of concept pilot study.	Matias Hosiasson
P-158	ACRM	DEVELOPMENT OF AN INTELLIGENT MOVEMENT EVALUATION AND TRAINING SYSTEM - NEEDS ASSESSMENT FOR INDIVIDUALS WITH DISABILITIES AND ASSISTIVE DEVICE MODULE DESIGN	Hsin-Yi Kathy Cheng
P-159	ICORR	Robotically Aided Method to Characterise the Soft Tissue Interaction with Wearable Robots	Felipe Ballen-Moreno
P-161	ICORR	Investigating Changes in Muscle Coordination during Cycling with Soft Wearable Strain Sensors Sensitive to Muscle Deformation	Jonathan Alvarez
P-162	IFESS	Characteristics of low frequency alternating current (LFAC) induced muscle contractions	Awadh Alhawwash
P-163	ICORR	Individualized learning-based ground reaction force estimation in people post-stroke using pressure insoles	Krithika Swaminathan
P-164	ACRM	Correlating data-driven muscle selection approaches to synergies for gait prediction	Annika Guez
P-165	ICORR	Air Efficient Soft Wearable Robot for High-Torque Elbow Flexion Assistance	Harrison Young
P-166	INRS	Functional Evaluation of Gyroscopic Actuators for Wearable Balance Assistance in People with Degenerative Ataxia – The GyBAR Backpack	Lotte van de Venis
P-167	ICORR	Volting, a novel dancing wheelchair with augmented mobility: Pushing lateral inclinations	Jhedmar Jhonatan Callupe Luna
P-168	ACRM	Factors influencing adoption and sustained use of rehabilitation technologies in clinical practice: a scoping review	Xiao Min Lilian Lim
P-169	ICORR	Design of a Self-Aligning Four-Finger Exoskeleton for Finger AbductionAdduction and FlexionExtension Motion	Ruipeng Ge
P-170	ASEAN	Effects and Safety of Wearable Exoskeleton for Robot-Assisted Gait Training: A Retrospective Preliminary Study	Dae Hyun Kim
P-171	ICORR	Assessing Human-Human Kinematics for the Implementation of Robot-Assisted Physical Therapy in Humanoids: A pilot study	Satoshi Endo
P-172	IFESS	Enhancing peripheral nerve rehabilitation using electrical stimulation delivered proximally with respect to the injury	Nebojsa Malesevic
P-173	ICORR	Validation of a Robotic-based Multisensory Integration Assessment in Chronic Stroke Patients	Erick Carranza
P-174	ICORR	MITEx: a portable hand exoskeleton for assessment and treatment in neurological rehabilitation	Davide Astarita
P-175	ICORR	The dynamic adoption journey: a typology for users and non-users of occupational Oral Presentation	Shirley A. Elprama
P-176	INRS	The use of the APP - Fatigue diary in patient with multiple sclerosis	Jelka Jansa
P-177	ACRM	Virtual reality (VR) and technology integration into an undergraduate medical rehabilitation course	Abigail Akande
P-178	ICORR	Development of the Biomech-Wrist: a 3-DOF exoskeleton for rehabilitation and training of human wrist	Roderico Garcia-Leal

P-179	IFESS	DEVELOPMENT OF AN EASY-TO-USE AT-HOME UPRIGHT BALANCE THERAPY PROTOTYPE FOR INDIVIDUALS WITH INCOMPLETE SPI-NAL CORD INJURY	Derrick Lim Ruey Chuan
P-180	ICORR	Increasing the Motivation to Train Through Haptic Social Interaction Pilot study	Aravind Nehrujee
P-181	ACRM	Adding inertia increases contralateral motor cortices activation in stroke during large-extent movement – an fNIRS study	Chuanxin M. Niu
P-182	ICORR	Neuro-Rehabilitation Program with T-FLEX Ankle Exoskeleton and Serious Games	Marcela Munera
P-183	INRS	Design and Test of A Passive Neck and Trunk Exoskeleton for Surgeons	Ce Zhang
P-184	ICORR	Use of Metamaterials to Reduce Acoustic Noise Emissions from Lower Limb Protheses: an Experimental Validation	Marco Puliti
P-185	ACRM	Co-designing ecologically-valid platforms for neuropsychological rehabilitation	Filipa Ferreira-Brito
P-186	ICORR	Attention-Based Deep Recurrent Neural Network to Estimate Knee Angle during Walking from Lower-Limb EMG	Thomas Bulea
P-187	ASEAN	A virtual reality-based personalized rehabilitation training system for cognitive impairment	Jianqing Li
P-188	ICORR	Shoe-Type Walking Assist Robot with Controllable Subtalar Joint Alignment at Heel Contact	Yuta Ishii
P-189	ACRM	A Virtual Education Program for Rehabilitation Therapists to Promote Clinical Use of Constraint Induced Therapy	Mary Bowman
P-190	ASEAN	Therapeutic Effects of a Newly Developed 3D Magnetic Finger Rehabilitation Device in Subacute Stroke Patients	Minsu Kim
P-191	ICORR	Creation and Evaluation of Human Models with Varied Walking Ability from Motion Capture for Assistive Device Development	Sherwin Stephen Chan
P-192	IFESS	Investigating the immediate effect of tSCS on gait speed and spasticity in patients with Multiple Sclerosis – preliminary results	Eira Lotta Spieker
P-193	INRS	Usability and Acceptability Study on a Digital Speech and Language Therapy Platform	Laura Marriot
P-194	ICORR	Modeling the human gait phases by using Bèzier curves to generate walking trajectories for lower-limb Oral Presentation	Matteo Laffranchi
P-195	INRS	Different Role of Biomarkers of Corticospinal Tract Integrity After Subcortical Cerebral Infarction	Gyoung Ho Nam
P-196	ICORR	Towards personalization of gait therapy: are spatiotemporal and kinematic-based augmented feedback equivalent to induce gait modification?	Roger Gassert
P-197	ACRM	Using fMRI to explore the central regulatory mechanism of swallowing initiation in the post-stroke pharyngeal phase	Han Xu
P-198	ASEAN	Effects on Functional Motor Performance for Persons with Stroke Using AR-based Rehabilitation System	Hsuan-Yu Lu
P-199	ICORR	Why Hard Code The Bionic Limbs When They Can Learn From Humans?	Sharmita Dey
P-200	IFESS	The effect of neuromuscular electrical stimulation on bowel management in people with spinal cord injury – preliminary results	Marie Alberty
P-201	INRS	Tele-VR rehabilitation alleviated phantom limb pain – Single case study using experimental designs -	Michihiro Osumi
P-202	ACRM	A Systematic Review on the Application of Automated Pupillometry to Improve Outcomes in Patients with Traumatic Brain Injury (TBI)	Damon Hoad
P-203	ICORR	Effect of Dynamic Energy Regeneration and Plugging Energy Regeneration on Braking Torque	Yanggang Feng
P-204	IFESS	CHARACTERIZATION, COMPLIANCE AND USER EXPERIENCE OF A HOME BASED FES REHABILITATION PROTOCOL IN CHRONIC STROKE SURVIVORS. A clinical experience for wider adoption of technologies in ecological environments	Juan Pablo Gonzalez Appelgren
P-205	INRS	SaeboFlex Translation Into Clinical Practice: An Upper Limb Therapy Adjunct for Neurorehabilitation	Amelia Weiyang Tan
P-206	ICORR	Comparison of lower arm weight and passive elbow joint impedance compensation strategies in non-disabled participants	Suzanne Filius
P-209	ICORR	Functional MRI assessment of brain activity during hand rehabilitation with an MR-compatible soft glove in chronic stroke patients	Yechan Lee
P-210	IFESS	Eliciting Sensory Feedback Using Surface Electrical Stimulation in the Lower Limb	Thomas Krauskopf
P-211	INRS	Movement Identification of a Myoelectric Prosthesis by Kinematic and EMG Measurements	Djaffar Ould Abdeslam
P-213	ICORR	Design and Evaluation of Cyclic Vibrotactile Funneling Illusion Method for Proprioceptive Position Sense Feedback	Yu Seok Hwang
P-214	ICORR	EMG-Informed Neuromusculoskeletal Modelling Estimates Muscle Forces and Joint Moments During Electrical Stimulation	Matthew Hambly
P-216	ICORR	Biomechanics of Exoskeleton-Assisted Treadmill Walking	Francesco Di Tommaso
P-217	IFESS	ELECTRODE FUSION OF MUSCLE CONTRACTION SENSOR AND FUNCTIONAL ELECTRICAL STIMULATION	Nur Liyana Azmi
P-218	INRS	Kinematic Measures From Mono-Ocular and Multi-View Camera-Based Pose Estimation for the Assessment of Upper Limb Movement Quality After Stroke – A Methods Comparison Study	Tim Unger
P-219	ACRM	Effective of Analysis of the Upper Limb Rehabilitation Exercise System Based on Artificial Intelligence	Hyun Jong Lee
P-221	INRS	A Graphical User Interface to Provide Feedback on Upper Limb Function Using Technology-Based Metrics	Nadine Alice Domnik
P-222	IFESS	Machine Learning Classification of Pre- and Post-Fatigue State in FES-Activated Quadriceps With a Novel Wearable Ultrasound Sensor	Vidisha Ganesh
P-223	ICORR	Comparison of Admittance Control Dynamic Models for Transparent Free-Motion Human-Robot Interaction	Christopher Bitikofe
P-224	ICORR	Virtual Physical Coupling of Two Lower-Limb Exoskeletons	Emek Baris Kucuktabak
P-225	ACRM	Smartphone-based Ecological Momentary Assessment and Network Approach to Understand Dynamic Relationships between Social isolation and Secondary Health Conditions in Individuals after Stroke	Alex Wong
P-227	ICORR	A decision support system to provide an ongoing prediction of robot-assisted rehabilitation outcome in stroke survivors	Cristian Camardella
P-228	IFESS	DROP FOOT CORRECTION USING DATA-DRIVEN MODEL PREDICTIVE CONTROL OF FUNCTIONAL ELECTRICAL STIMULATION	Vidisha Ganesh
P-229	INRS	Towards a More Extensive Understanding of Manual Dexterity Impairment after Neurological Injury	Anna Sophie Knill

P-231	ICORR	Does the Level of Confidence in Serious Games in Immersive VR Correlate with the Quality of Movement? Preliminary Results from an Ongoing Study on Rehabilitation of Children with Cerebral Palsy*	Ilaria Bortone
P-232	INRS	The Effect of Time Spent in Robotic Rehabilitation on Motor Function in Children with Neurological Disabilities	Sung-Hui Tseng
P-233	ICORR	Understanding Power user Characteristics to Optimize the Usage of Home Hand Rehabilitation Technology	Quentin Sanders
P-234	INRS	Neurobiomechanical Understanding of Sensorimotor Control of Grip Interactions During Object Slippage.	Ayesha Tooba Khan
P-235	IFESS	ACTIVITY BASED RESTORATIVE THERAPY (ABRT) IMPROVES tSCI REHABILITATION OUTCOMES REGARDLESS OF BACLOFEN USE	Desai Nikhilesh
P-236	INRS	Wearable Sonomyography-based Control for Upper Extremity Bionics	Anne Tryphosa Kamatham
P-237	INRS	Essential user needs of home-based robotic hand rehabilitation device for post-stroke hemiparetic patients	Chiu Hsiao Ping
P-240	IFESS	REAL-TIME ULTRASOUND IMAGING BASED CLOSED LOOP CONTROL OF A HYBRID EXOSKELETON	Vidisha Ganesh
P-241	Late	Lower limb motion analysis for robotic rehabilitation	Dorin Popescu
P-242	Late	A Systematic Review of Soft Robotics Research in Clinical Rehabilitation	Bong-Keun Jung
P-243	Late	Association of pulmonary function with osteosarcopenic obesity in older adults aged over 50 years	Han-sol Lim
P-244	Late	Precision and Clinical Validity of Smart Device-Based Hand-held Spirometer	Myungmo Lee
P-245	Late	A Cross-Sectional Study of Robotic-Assisted Body Weight Supported Treadmill Training Versus Conventional rehabilitation with a Traumatic Brain Injury	Seok-Yeon Choi
P-246	Late	Therapeutic effect of using assistive soft-robotic glove at home: Which patients are good responders?	Gerdienke Prange-lasonder
P-247	Late	Understanding occurrence of discomfort and perceived exertion during strenuous tasks with soft-robotic glove support	Gerdienke Prange-lasonder
P-248	Late	Clinical applicability of assist-as-needed robot- and electrostimulation-supported leg training during early-stage stroke rehabilitation	Gerdienke Prange-lasonder
P-249	Late	Enhancement of Upper Limb Movement for Partial Hand Amputees through a Wrist Prosthesis	Keehoon Kim
P-250	Late	Novel hybrid actuator for a new robotic-aquatic rehabilitation paradigm: Feasibility study	José Vicente García Pérez
P-251	Late	Feasibility of Depth Camera for Center of Mass Estimation in Visual Feedback Balance Training with Functional Electrical Stimulation	Derrick Lim Ruey Chuan
P-252	Late	An Upper-Limb Motor Performance Evaluation based on Normal Reaching Model	Jonghyun Kim
P-253	Late	Robotic Device with High-Fidelity Haptics-Enabled Training Tasks for Sensorimotor Upper-Limb Training after Stroke: First Clinical Usability Results	Raphael Rätz
P-254	Late	Usability Evaluation of a Portable Haptic Hand Trainer for Independent Robotic Stroke Rehabilitation	Raphael Rätz
P-255	Late	A proof-of-concept study of closed-loop 'Remind-to-move' treatment for the upper extremity in patients with hemiplegia after stroke	Kenneth N.K. Fong
P-256	Late	The Application of Repetitive Transcranial Magnetic Stimulation (rTMS) as an Adjunct Therapy in Illicit Drugs Addiction: A Randomized Crossover Trial	Kenneth N.K. Fong
P-257	Late	Effects of intermittent theta burst stimulation on modulation of mirror visual feedback-induced rhythm suppression in people with stroke	Kenneth N.K. Fong
P-258	Late	Implementing the Categorization Program as a single treatment modality in chronic brain injury-implications for Neurorehabilitation	Fofi Constantinidou
P-259	Late	Assessment and Classification of Cognitive Load base on Physiological data	Bin Liu
P-260	Late	Comparing the Ability of a Robotic Ankle Prosthesis to Augment Effective Foot-Ankle Stiffness relative to Standalone Clinically-Available Prosthetic Feet	Ross Michael Neuman
P-261	Late	Augmenting Reactive Stepping with Functional Electrical Stimulation in a Participant with Incomplete Spinal Cord Injury: A Case Study	Matthew G. Heffernan
P-262	Late	Structural design and analysis of human muscle strength simulation device	Keshu Cai
P-263	Late	Useful tests to evaluate driving fitness in patients with aphasia	Noriaki Kato
P-264	Late	Identifying Gait Quality within Incomplete Spinal Cord Injury Individuals Using Unsupervised Clustering: A Novel Approach to Patient-Tailored Rehabilitation	Mehdi Ejtehadi
P-265	Late	Promoting Physical Activity in Community-Dwelling Older Adults: A Design Thinking Approach for the Development of a Mobile Health Application	Kim Daniels
P-266	Late	WMORE: an open-source Wearable system for synchronous MOvement REcording	Alejandro Melendez-calderon
P-267	Late	Rehabilitation Engineering: Identifying scope of practice in Australia	Alejandro Melendez-calderon
P-268	Late	Improving Gait Efficiency in Ambulation of Spinal Cord Injury Patients using a Novel Passive Exoskeleton	Michal Gloger
P-269	Late	An all-digital, wearable, frequency-domain near-infrared spectroscopy technology for rehabilitation	Hubin Zhao
P-270	Late	An AI-enhanced, multimodal BCI system for wheelchair navigation	Hubin Zhao
P-271	Late	Application of a contactless collaborative robot in rehabilitation of musculoskeletal diseases – Data from the patients' perspective with ADAMO Robot	Lena Grams
P-272	Late	Comparison of Dual-Task on Prefrontal Activation and Gait Variables in the Older Adults with MCI during Straight and Curved Walking	Seungwon Lee
P-273	Late	Multidisciplinary therapeutic protocol for pressure sores in severe spinal cord injury dogs	Débora Gouveia
P-274	Late	Effects of 6-weeks walking exercise program using wearable hip robot on the physical function of older adults	Lee Wan-hee

P-275	Late	Evaluating Work Performance and Cognitive Load: A Comparative Study of an Active and Passive Industrial Back Exoskeleton	Renée Govaerts
P-276	Late	Validity and reliability of the Korean version of Visual Function Classification System for children with Cerebral Palsy	Min Hwan Kim
P-277	Late	Usability and acceptability of a wearable sensor-enabled mobile health system to support post-injury evaluation and monitoring	Charmayne Hughes
P-278	Late	DRome: A Deep Learning-based Mobile Vision System for Range of Motion Evaluation	Charmayne Hughes
P-279	Late	A systematic review of attendance, adherence and satisfaction with telerehabilitation delivered physiotherapy	Trevor Russell
P-280	Late	A Collaborative Approach for the Co-design of a Torso Monitoring Wearable for Trunk Training in the Stroke Population	Amy Dennis-Jones
P-281	Late	A Multimodal Approach to Hands-Free Voice Control in Laryngectomy Subjects	Nevena Musikic
P-282	Late	Recovering Temporal Synergies of Walking from Lower-Limb Sonomyography through Factorization that Well Correlate with Joint Mechanics and Muscle Activity	Nicholas Fey
P-283	Late	A Compact Walking Assistive Robot using a Gait-Adaptive Control Methods	Keisuke Osawa
P-284	Late	Validation of Joint Range of Motion Measurement Based on MediaPipe	Keisuke Osawa
P-285	Late	Anti-spastic effect of repetitive transcranial magnetic stimulation combined with robot-assisted arm training on severe hemiplegic upper-limb after stroke	Hyun Jung Kim
P-286	Late	Development & implementation of an Integration Assistive Technology in the Dementia Care	Chien-ping Chen
P-287	Late	'Smart reminder': a pilot randomised crossover study on the effects of a telerehabilitation using a novel wearable device on hemiplegic upper limb recovery for community-dwelling stroke survivors	Fong Mei Toh
P-288	Late	Automated 3D Segmentation of Skeletal Muscles from chest and abdominal CT Scans: A Deep Learning Approach	Yoon-Hee Choi
P-289	Late	The Development of Portable Wheelchair Treadmill (PARAFITGo) for People with Spinal Cord Injury	Noor Hafifi Noor Hisham
P-290	Late	Structure and Control of Biaxial Ankle Dynamometer	Inwoo Kim
P-291	Late	Comprehensive Physical Work Capacity Evaluations for Korean Farmers Assessed in Healthy Volunteers	Sora Baek
P-292	Late	Hospital-based exercise in chronic kidney disease patients: a randomized controlled study	Sang-Hyeok Ma
P-293	Late	Virtual reality assisted rehabilitation on upper limb motor function in brain-injured patient: A pilot study	Sang-hyeok Ma
P-294	Late	Enhancing the control of assistive technology using voluntary tensor tympani muscle contraction; using EarSwitch® technology	Anna Hoyle
P-295	Late	Design and Testing of a 3D Printed Passive-Elastic Knee Exoskeleton for the Treatment of Crouch Gait	Sebastian Barrutia
P-296	Late	Effects of Wearable Exoskeleton Robotic Gait Training in Subacute Stroke: A Pilot Randomized Controlled Trial	Wasuwat Kitisomprayoonkul
P-297	Late	How to assess the effectiveness of arm support: A systematic review	Yun-hwan Lee
P-298	Late	Are Behaviour Change Approaches Incorporated into Digital Technology-Based Rehabilitation Interventions? A Scoping Review Focusing on Physical Stroke Rehabilitation	Rachel Stockley
P-299	Late	Comparative Usability Testing between Lightweight Power Wheelchairs: Focused on People with Physical Disabilities in the Community	Yeong-hun Kwon
P-300	Late	Nearing the finish line: Clinical approval committee for neurorehabilitation devices	Courtney Celian
P-301	Late	The Effect of Preferred Walking Speed on Oxygen Cost of Walking in Stroke Survivors	Hyunju Park
P-302	Late	Holistic Rehabilitation Data Design Study in physical and brain disabilities	Hyun Jin Kim
P-303	Late	Feasibility and Effectiveness of Mirror Therapy Combined with Telerehabilitation on Activities of Daily Living in Hemiplegic Stroke: Pilot Clinical Trial	Andreas Tsolias
P-304	Late	Mapping the spatial distribution of motor unit activity in forearm muscles	Jonathan Lundsberg
P-305	Late	Passive shoulder exoskeleton support partially mitigates fatigue-induced changes in muscle synergies during overhead precision work	Sander De Bock
P-306	Late	Efficacy of Gravity Compensation in Post-Stroke Upper Extremity Rehabilitation: Insights from a Randomized Clinical Trial using the ExoNET Device	Partha Ryali
P-307	Late	Service design study to motivate people with disabilities to exercise within their communities	Hye Min Choi
P-317	Late	An Innovative Contactless Approach for Sleep Parameter Analysis based on Ultra-Wideband Communication Channel Impulse Response Measurement	Ivana Culjak
P-319	Late	The effect of combined exercise of plyometric and kettlebell training on power, muscle strength, dynamic balance and ball speed of high school baseball players during the season	Jongun Yim
P-321	Late	Prosthesis: Help or Hindrance? Recommendations for Occupational Therapists Regarding Children with a Unilateral Congenital Transverse Reduction Defect Distal the Elbow	Laura Burggraf
P-327	Late	Direction of Fascia Movement in Finkelstein's Test in Non-symptomatic Thumbs of Healthy Individuals	Raymond Esperida
P-331	Late	Emergency department visits among home mechanical ventilator users with neuromuscular disorders in Korea using HIRA database from 2016 to 2021.	Soyoung Kwak
P-332	Late	Robot-assisted Therapy in Stratified Intervention	Yang Liu