

Poster Session I

Saturday, 30th June



International Society of
Electrophysiology and Kinesiology
UNIVERSITY COLLEGE DUBLIN
JUNE 29th – JULY 2nd 2018

Poster Number	Title	Presenting Author	Affiliation	Theme
PI.1	Intramuscular Pressure of Tibialis Anterior Muscle Reflects in vivo Motor Unit Activity	Filiz Atez	Mayo Clinic	Biomechanics
PI.2	Talocrural and subtalar joint kinematics: is dynamic Computed Tomography a reliable tool to investigate joint motion?	Luca Buzzatti	Vrije Universiteit Brussel	Biomechanics
PI.3	Tracking system of human scapula using sonography: new opportunity to assess scapula dyskinesia	Manuel González Sánchez	University of Málaga	Biomechanics
PI.4	Tendon and aponeurosis displacement magnitude is different in gastrocnemius lateralis but not medialis during a submaximal isometric contraction	Susann Wolfram	University of Bath	Biomechanics
PI.5	Ultrasound-based strain mapping for quantitative characterization of uterine activity outside pregnancy	Yizhou Huang	Eindhoven University of Technology	Biomechanics
PI.6	The effects of age and sex on gait muscle activation and activation variability: Unique muscle recruitment at the stance-to-swing phase for aging females	Christopher Bailey	McGill University	Biomechanics
PI.7	Biomechanics of a “giving way” episode in an individual with chronic ankle instability: a case report	Alexandria Remus	UCD/ Insight	Biomechanics
PI.8	Forearm muscle activity and wrist kinematics during dynamic wrist movements with sudden perturbations	Garrick Forman	Brock University	Biomechanics
PI.9	Effect of bad posture on the standing balance?	Rita Kiss	Budapest University of Technology and Economics	Biomechanics
PI.10	Effect of Joint Angle on Electromyography and Near Infra-red Spectroscopy during Fatiguing Contractions of the Elbow Flexors in Men and Women	Usha Kuruganti	University of New Brunswick	Biomechanics

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Poster Number	Title	Presenting Author	Affiliation	Theme
PI.11	Effect of automobile tire changing work height on upper body muscle activation	Alexander VanInderstine	University of New Brunswick	Biomechanics
PI.12	Characterising Human Muscle Postactivation Potentiation by MMG and Force	Niall Campbell	Institute of Technology Blanchardstown	Modelling, Signal Processing & Sensing
PI.13	Use of the variance ratio to facilitate validation of motor unit discharge rates in the flexor carpi radialis (FCR) obtained by decomposition of the surface electromyographic signal	Robert Kumar	Brock University	Modelling, Signal Processing & Sensing
PI.14	Static Nonlinear Transformation of Excitation Model Input as an Alternative to Feedback Control in EMG-Force Models	Eike Petersen	University of Lübeck	Modelling, Signal Processing & Sensing
PI.15	Variability of hand motions quantified using EMG root mean square and mean frequency	Asim Waris	Aalborg Univeristy Denmark	Modelling, Signal Processing & Sensing
PI.16	Automatic Window Selection for Quantifying Neuromuscular Jiggle	Kamil Savaş	Akdeniz University	Modelling, Signal Processing & Sensing
PI.17	On the accuracy of single motor unit firing detection from high-density surface electromyograms	Filip Urh	University of Maribor, Faculty of Electrical Engineering and Computer Science	Modelling, Signal Processing & Sensing
PI.18	Measuring the changes in Soleus EMG activity: Effect of electrode placements	Sridhar Arjunan	RMIT University	Modelling, Signal Processing & Sensing
PI.19	Neck electro-tactile stimulation induces forward leaning during upright posture	Alessandro De Nunzio	School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham	Motor Control
PI.20	Trunk Muscle Activation Patterns Interact with Clinical Instability to Influence Low Back Reinjury Risk	D-Adam Quirk	Dalhousie University	Motor Control

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Poster Number	Title	Presenting Author	Affiliation	Theme
PI.21	Regularity of force control in individuals with and without a recent anterior cruciate ligament rupture	Sarah Ward	University of Auckland	Motor Control
PI.22	Effects of low-intensity vibration exercise on muscle activation	Lin Xu	Eindhoven University of Technology	Motor Control
PI.23	Sit-to-stand task muscular pattern for different backrest inclinations	Nadège Tebbache	I.N.U Champollion	Motor Control
PI.24	Co-contraction in the lower extremity postural control muscles during continuous support-surface perturbations is reduced with previous experience.	Carolyn Duncan	Virginia Tech	Motor Control
PI.25	Sex-differences in surface electromyography during pull-up tests	Pascal Madeleine	Aalborg University	Motor Control
PI.26	Intermuscular coherence in the trunk muscles during gait: does fear of movement in chronic low-back pain patients affect intermuscular coherence?	Bart van Trigt	The Hague University of Applied Sciences	Motor Control
PI.27	Dependence of EMG signals on body position in arm cycling movements.	Jozsef Laczko	Wigner Research Centre for Physics	Motor Control
PI.28	Reduced sensory input from the feet affects mechanical role of muscle synergies but not related muscles	Akari Kubo	Graduate School of Human and Environmental Studies, Kyoto University, Japan	Motor Control
PI.29	Simultaneous and Proportional Myoelectric Control for a Robotic Arm with Multilayer Perception Network and limited samples	Chuang Lin	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	Motor Control
PI.30	Impairments in motor units firing and recruitment due to diabetic polyneuropathy progression: a high-density sEMG study in isometric contractions	Eneida Suda	University of São Paulo	Motor Control

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Poster Number	Title	Presenting Author	Affiliation	Theme
PI.31	Evaluation of recovery of lumbopelvic movement and motor control of individuals with nonspecific LBP using repeated forward bending task	Sharon Tsang	The Hong Kong Polytechnic University	Motor Control
PI.32	The Effects of Virtual and Traditional Golf Programs on Balance During Golf Swing in Children With Cerebral Palsy	Selda Uzun	Marmara Universitesi	Motor Control
PI.33	The fractal fluctuations of kinematic synergy in human gait rhythm	Naomi Tsugita	Graduate School of Human and Environmental Studies, Kyoto University	Motor Control
PI.34	Inter-limb coordination of redundant muscle activation was modularly regulated in shared bimanual reaching tasks	Shota Hagio	The University of Tokyo	Motor Control
PI.35	Impact of Malocclusion on the Masseter and Temporalis Muscles of Children	Simone Cecilio Hallak Regalo	School of Dentistry of Ribeirão Preto, University of São Paulo, Ribeirão Preto	Motor Disorders & Neurophysiology
PI.36	Electromyography and kinetics comparison of the lower extremity between barefoot and high heel gait	Mohammad Barnamehei	Islamic Azad University of Science and Research Branch	Motor Disorders & Neurophysiology
PI.37	Regularity of force control in participants with and without spastic Cerebral Palsy during isometric contractions of the elbow joint	Lukas Wiedemann	University of Auckland	Motor Disorders & Neurophysiology
PI.38	Development Of A Method To Detect The Impact Of Pain Relief On Muscle Activity In Knee Osteoarthritic Patients: Preliminary Results	Sophie Jeandel	CRCHUM	Motor Disorders & Neurophysiology
PI.39	The impact of vibration on shoulder muscle activity: An EMG study	Omid Khayat	Liverpool Hope University	Motor Performance and Sports Science
PI.40	Functional connectivity of hand-arm muscles during a repetitive fatiguing task	Afshin Samani	Aalborg University	Motor Performance and Sports Science

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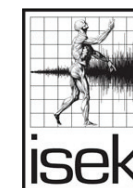


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Poster Number	Title	Presenting Author	Affiliation	Theme
PI.41	Comparison of the etiology of neuromuscular fatigue among the lower limb muscles between boys and men.	Enzo Piponnier	AME2P Laboratory, Clermont-Auvergne University, FRANCE	Motor Performance and Sports Science
PI.42	Surya Namaskar Practice On Body Weight, Body Mass Index, And Body Fat In Obese Females: A Case Study	Khaothin Thawichai	Suranaree University of Technology	Motor Performance and Sports Science
PI.43	An investigation of the EMGs spatial distribution on pectoralis major during flat and inclined bench press	Felipe Mancebo	Federal University of Rio de Janeiro	Motor Performance and Sports Science
PI.44	The Effects Head/Neck Injury on Motor-neuron Reflex Excitability, Motor Preparation and Reaction Time: A Pilot Study	James Agostinucci	University of Rhode Island	Motor Performance and Sports Science
PI.45	Performance Evaluation on Endoscopic Tasks from Forearms EMG signals within High Trained Surgeons	Hideo Nakamura	Osaka Electro-Communication University	Motor Performance and Sports Science
PI.46	Kinematic and muscular response to impacts on the shoulder	Elie Truyen	Royal Military Academy, Brussels	Motor Performance and Sports Science
PI.47	The effects of figure-ground reversal visual clue on the throwing performance of individuals with cerebral palsy	Ryo Yonetsu	Kanagawa University of Human Services/ School of Rehabilitation	Motor Performance and Sports Science
PI.48	Neuromuscular coordination and recruitment differences of badminton forehand overhead smash executed by elite and non-elite athletics	Hamidreza Barnamehei	Islamic Azad University of Science and Research Branch	Motor Performance and Sports Science
PI.49	Angular acceleration of the head of snowboarder that immobilizes the head	Toshihiko Hashimoto	Ryotokuji University	Motor Performance and Sports Science
PI.50	Effect of different pre-processing methods on somatosensory evoked potentials.	Imran Khan Niazi	New Zealand College Of Chiropractic	Motor Disorders & Neurophysiology

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Poster Number	Title	Presenting Author	Affiliation	Theme
PI.51	Upper limb recovery in aphasic patients after vascular accident: a theory.	Deanna Anderlini	The University of Queensland	Motor Disorders & Neurophysiology
PI.52	Sensory, Visual Spatial, and Motor Planning Activity Supports Motor Cortex Efficiency After Neuromuscular Training	Dustin Grooms	Ohio University	Motor Disorders & Neurophysiology
PI.53	Muscle-tendon Units Localization and Activation Level Analysis based on High-Density Surface EMG signals	Huang Chengjun	Guangdong Work Injury Rehabilitation Center	Motor Disorders & Neurophysiology
PI.54	The arms and legs work better when used together: amplification of rhythmic activity-dependent suppression of soleus Hoffmann reflexes	Gregory Pearcey	University of Victoria	Motor Disorders & Neurophysiology
PI.55	Electromyographic analysis of shoulder girdle muscles in swimmers with shoulder pain	Elnaz Sabzehparvar	Karaj Branch, Islamic Azad University, Karaj, Iran.	Rehabilitation / Rehabilitation Technologies
PI.56	A previous knee injury leads to an increase in intermuscular synchronization of the vastii muscles	Maurice Mohr	University of Calgary	Rehabilitation / Rehabilitation Technologies
PI.57	Maintaining lumbar spine stability: A study of the specific and combined effects of abdominal activation and lumbar belt on lumbar intrinsic stiffness	Christian Lariviere	Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST)	Rehabilitation / Rehabilitation Technologies
PI.58	THE EFFECT OF INSTRUCTION ON THE ACTIVITY OF ANKLE MUSCLES WHILE INDIVIDUALS STAND WITH THE EMG BIOFEEDBACK	Fabio dos Anjos	Politecnico di Torino	Rehabilitation / Rehabilitation Technologies
PI.59	Ulnar nerve Conduction Block Using Surface Kilohertz Frequency Alternating Current- A Feasibility Study	Shmuel Springer	Ariel University Israel	Rehabilitation / Rehabilitation Technologies
PI.60	Effects of Isometric Contractions Superimposed on Vibration Stimulation in Upper and Lower Limb Muscles for Rehabilitation Applications	Amit Pujari	University of Hertfordshire and University of Aberdeen	Rehabilitation / Rehabilitation Technologies

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PI.61	Cross-education does not accelerate the recovery of muscle strength and neuromuscular function after ACL reconstruction: a randomized controlled clinical trial	Tjerk Zult	School of Medicine, Anglia Ruskin University, Cambridge, United Kingdom	Rehabilitation / Rehabilitation Technologies
PI.62	The effects of static stretching on range of motion and shear elastic modulus with different rest interval duration	Masatoshi Nakamura	Niigata University of Health and Welfare	Rehabilitation / Rehabilitation Technologies
PI.63	Dynamic gait analysis with two types of knee orthosis in healthy adults	Keio Ishiguro	Tokyo University of Technology	Rehabilitation / Rehabilitation Technologies
PI.64	Participants' views on the "blinding" aspect of a RCT study - Experiences from evaluation of TES concept for self-administered treatment of spasticity	Leif Sandsjö	University of Borås	Rehabilitation / Rehabilitation Technologies
PI.65	Comparison between the EMG activation of supraspinatus and infraspinatus muscles during shoulder abduction movement while generating different hand grip strength in healthy subjects.	Macarena Soldan	MEDS clinics	Rehabilitation / Rehabilitation Technologies
PI.66	Evaluation of the Biomechanics and Neuromechanics of Lifting Tasks for the Real-Time Control of Electrical Stimulation	Giacomo Severini	University College Dublin	Modelling, Signal Processing & Sensing
PI.67	Investigation of Two Channel Surface Electromyogram Measurement in Lower Extremities for Wearable Devices Targeting Periodic Limb Movements Detection at Home	Kana Eguchi	Kyoto University	Modelling, Signal Processing & Sensing
PI.68	Development of MMG / EMG Hybrid Transducer System for Muscle Contraction Evaluation during Dynamic Exercises	Hisao Oka	Okayama University	Modelling, Signal Processing & Sensing
PI.69	Assessment of breathing effort using surface diaphragm electromyography: preliminary results	Massimo Mischi	Eindhoven University of Technology	Modelling, Signal Processing & Sensing
PI.70	Estimating Quasi-Static Joint Mechanical Impedance from EMG via Training from a Single Trial	Ted Clancy	Worcester Polytechnic Institute	Modelling, Signal Processing & Sensing

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Poster Number	Title	Presenting Author	Affiliation	Theme
P11.1	The effect of distal transverse arch on wrist joint during dart-throwing motion	Akio Ueda	Hiroshima University	Biomechanics
P11.2	Evaluation of Atraumatic Hip Instability Measured by Triaxial Accelerometry During Walking.	Iver Cristi-Sánchez	Universidad Mayor	Biomechanics
P11.3	Degradation study of biodegradable polylactic acid/ bioactive glass composite screw	Amir Shafaat	1.Arak University of Technology 2.Isfahan University of Medical Sciences 3.Musculoskeletal Research Center Isfahan University of Medical Sciences, Isfahan, Iran	Biomechanics
P11.4	Use of principal component analysis to determine movement characteristics between countermovement jump with and without arm swing	Emily Cushion	St Mary's University	Biomechanics
P11.5	Deltoid antagonistic co-activation at different arm elevation planes	Vassilios Vardaxis	Des Moines University	Biomechanics
P11.6	A study of the toes pressing force in gait. :Analysis of the time when the pressing force peaked.	Iori Arisue	Kansai University of Welfare Sciences	Biomechanics
P11.7	Analysis of the 3-direction force for pedal and the muscle activity, the joint movement during the constant work rate pedaling.	Atsushi Iwashita	Yamato university	Biomechanics
P11.8	Walking critical speed percentage: oxygen consumption, step frequency and perceived effort	Andreia Aires	Pontifical Catholic University of Rio Grande do Sul	Biomechanics
P11.9	Title:The influence of early radiographic evidence of knee osteoarthritis on muscle activation patterns and joint biomechanics:A between-limb comparison in people with unilateral symptoms	Derek Rutherford	Dalhousie University	Biomechanics

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Poster Number	Title	Presenting Author	Affiliation	Theme
P11.10	Evaluation of shoulder stability in young and elderly subjects with helical axis technique	Corrado Cescon	University of Applied Sciences and Arts of Southern Switzerland	Biomechanics
P11.11	Observing sEMG output when doing a maximum voluntary isometric contraction in supine position as compared to a maximum isometric contraction in standing position.	Kari Huseth	University of Gothenburg	Biomechanics
P11.12	Model of phase locking in the subthalamo-pallidal loop in Parkinson's Disease	Lucas Koelman	University College Dublin	Modelling, Signal Processing & Sensing
P11.13	An automatic procedure for the accurate extraction of the sEMG envelope	Simone Ranaldi	University Roma TRE	Modelling, Signal Processing & Sensing
P11.14	Advancements in Rapid Calibration of Dynamic EMG-Force Models at the Hand/Wrist Using a Minimum Number of Electrodes	Ted Clancy	Worcester Polytechnic Institute	Modelling, Signal Processing & Sensing
P11.15	Activity of biceps brachii's short head and long head during submaximal isometric voluntary contractions	Subaryani Dambawati Harjaya Soedirdjo	Laboratory for Engineering of the Neuromuscular System (LISiN), Politecnico di Torino	Modelling, Signal Processing & Sensing
P11.16	Scanning-EMG masked least-squares averaging from multiple-discharges recordings	Javier Navallas	Public University of Navarra	Modelling, Signal Processing & Sensing
P11.17	Automatic High Density Surface EMG Decomposition in Amyotrophic Lateral Sclerosis and a Novel Validation Method	Maoqi Chen	University of Science and Technology of China	Modelling, Signal Processing & Sensing
P11.18	Proximal upper limb muscles outperform distal limb muscles when learning the same motor task	Bernadette Murphy	University of Ontario Institute of Technology	Motor Control
P11.19	The reliability of TMS-Derived Indices of Corticomotor Inhibition and Corticospinal Excitability in two distinct populations	Thomas Di Virgilio	University of Stirling	Motor Control

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Poster Number	Title	Presenting Author	Affiliation	Theme
P11.20	Chiropractic Manipulation Increases Maximal Bite Force in Healthy Individuals	Mustafa Görkem Özyurt	Koc University	Motor Control
P11.21	Interplay between body sway and intrinsic foot muscle activation for postural balance control in humans	Elisabetta Ferrari	Manchester Metropolitan University	Motor Control
P11.22	Characterizing forearm muscle recruitment patterns during radial and ulnar rotation of the wrist using a haptic wrist robot	Davis Forman	University of Ontario Institute of Technology	Motor Control
P11.23	Decreased cortical white matter integrity in patients with Degenerative Cervical Myelopathy-A Diffusion Spectrum Imaging Study	shwufen Wang	National Taiwan University	Motor Control
P11.24	Immediate change in electromyographic activity after different types of trunk muscle exercises	Takuya Nishikawa	Kawakubo hospital	Motor Control
P11.25	The effect of cooling at the elbow on Nerve Conduction Velocity and Motor Unit behavior: An exploration of a novel Neurological Assessment	Liane Macedo	Federal University of Rio Grande do Norte	Motor Control
P11.26	Differences in force normalising procedures on estimates of relative output during submaximal eccentric contractions	Jakob Skarabot	Northumbria University	Motor Control
P11.27	Stimulus-locked responses and corrective reaches are selective for low spatial frequency visual stimuli	Rebecca Kozak	Western University	Motor Control
P11.28	Evaluation of shoulder muscle coordination during arm elevation and lowering based on muscle synergy	Jun Umehara	Kyoto University	Motor Control
P11.29	Acute effects of vibration exercise on human balance	Massimo Mischi	Eindhoven University of Technology	Motor Control

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P11.30	Time/frequency patterns of EMG wavelet intensity of vastus medialis and lateralis of runners discriminate frequency bands that individually shift while running.	Vinzenz von Tschamer	University of Calgary	Motor Control
P11.31	The effect of muscle fatigue on neuromuscular activation of quadriceps femoris muscles during isometric sine-wave force tracking task	Aya Tomita	Nagoya University	Motor Control
P11.32	Position versus velocity controls in a simplified target acquisition task to improve future myoelectric controls	Mathilde Couraud	INCIA - CNRS UMR 5287	Motor Control
P11.33	Effect of neuromuscular stimulation of antagonist muscles for voluntary drive	Kenichi Sugawara	Kanagawa University of Human Services	Motor Control
P11.34	Postural strategies for blind and sighted individuals during standing	Masaki Iguchi	Tsukuba University of Technology	Motor Control
P11.35	Influence of Parkinson's Disease in the muscles of the Stomatognathic System	Simone Cecilio Hallak Regalo	School of Dentistry of Ribeirão Preto, University of São Paulo, Ribeirão Preto	Motor Disorders & Neurophysiology
P11.36	The association between activity and stiffness of the back extensor muscles in people with low back pain	Carlos Murillo	Centre of precision rehabilitation for spinal pain, University of Birmingham	Motor Disorders & Neurophysiology
P11.37	Effect of Intermittent Hypoxia on Upper Extremity Function in Individuals with Spinal Cord Injury	Milap Sandhu	Shirley Ryan AbilityLab	Motor Disorders & Neurophysiology
P11.38	Impact of Osteoarthritis in the muscles of the Stomatognathic System	Ligia Maria Napolitano Gonçalves	School of Dentistry of Ribeirão Preto, University of São Paulo	Motor Disorders & Neurophysiology
P11.39	Changes in function due to high intensity exercise in Parkinson's Disease examined using instrumented clinical tests	Ben O'Callaghan	University College Dublin	Motor Disorders & Neurophysiology

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Poster Number	Title	Presenting Author	Affiliation	Theme
P11.40	Effect of resistance training on motor unit firing pattern in elderly	Kohei Watanabe	Chukyo University	Motor Performance and Sports Science
P11.41	Investigation of parasympathetic nervous system response with measuring R-R interval of pulse using wrist-watch during different jogging	Takashi Nakayama	Tokyo University of Technology	Motor Performance and Sports Science
P11.42	Muscle fatigue and metabolic responses during whole-body electrical myostimulation with and without voluntary exercise	Shuhei Kawade	MTG Co.,Ltd.	Motor Performance and Sports Science
P11.43	Racing Strategy Pattern Of Men's Single Sculls Para-Rowing	Khaothin Thawichai	Suranaree University of Technology	Motor Performance and Sports Science
P11.44	A Kinematic Comparison of the visual impairment running and low vision running	Pornthep Rachnavy	Suranaree University of Technology	Motor Performance and Sports Science
P11.45	Muscle activity and steering performance using five steering input devices operating a heavy machine simulator	Afshin Samani	Aalborg University	Motor Performance and Sports Science
P11.46	Relationship between trunk kinematics measured by smartphone inertial sensor and contact mat scores in plyometric tests	Alejandro Galán-Mercant	University of Jaén	Motor Performance and Sports Science
P11.47	Leg and trunk muscle activity in different positions performing on a double slackline in young adults	Ralf Roth	University of Basel	Motor Performance and Sports Science
P11.48	Evaluating Aberrant Muscle Activity Patterns During Functional Tests	Paolo Bonato	Harvard Medical School	Motor Performance and Sports Science
P11.49	Audiovisual Multisensory Processing and evoked potentials in Adult Attention-Deficit/Hyperactivity Disorder	Paul Yelder	University of Ontario Institute of Technology, Deakin University	Motor Disorders & Neurophysiology

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Poster Number	Title	Presenting Author	Affiliation	Theme
P11.50	Long-term changes in the impedance at the electrode-tissue interface of deep brain stimulation electrodes	Judith Evers	University College Dublin	Motor Disorders & Neurophysiology
P11.51	Why don't we bite our tongue while eating? An intramuscular electromyography study to elucidate the neuroanatomical circuitry between the masseter and the genioglossus in humans during chewing	Beatrice Senocak	Koç University School of Medicine	Motor Disorders & Neurophysiology
P11.52	Ageing. It's a Trap! Neuromuscular properties of the superior trapezius.	Eric Kirk	The University of Western Ontario	Motor Disorders & Neurophysiology
P11.53	Cutaneous reflexes modulation in arm muscles during self-triggered and/or prolonged stimulation	Yao Sun	University of Victoria	Motor Disorders & Neurophysiology
P11.54	Effects of an ankle foot orthosis that can recreate dorsiflexion of the metatarsophalangeal joint on gait in a child with spastic hemiplegia cerebral palsy	Ryo Yonetsu	Kanagawa University of Human Services/ School of Rehabilitation	Rehabilitation / Rehabilitation Technologies
P11.55	Effects of subliminal vibration on tactile perception discrimination thresholds	Junichi Suzuki	Faculty of Nursing and Rehabilitation, Konan Women's University	Rehabilitation / Rehabilitation Technologies
P11.56	Myoelectric pattern recognition driven robotic hand assisted training after spinal cord injury	Huang Chengjun	Guangdong Work Injury Rehabilitation Center	Rehabilitation / Rehabilitation Technologies
P11.57	Analysis of functional role of the human rectus femoris muscle by frequency analysis of EMG	Masaki Yoshida	Osaka Electro-Communication University	Rehabilitation / Rehabilitation Technologies
P11.58	Electrocardiographic and functional near-infrared spectroscopic analysis of effects of tactile stimulation on relaxation	Kan Hazaki	Osaka Electro-Communication University	Rehabilitation / Rehabilitation Technologies
P11.59	Effect of transcranial direct current stimulation in the treatment of low back pain	Hiroshi Maeoka	Kio University	Rehabilitation / Rehabilitation Technologies

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P11.60	Effects of long-term Galvanic Vestibular Stimulation (GVS) on blood pressure fluctuation at posture change	Koji Nagino	Kansai University of Welfare Sciences	Rehabilitation / Rehabilitation Technologies
P11.61	Does gender affect detection threshold and pain threshold in subdermal electrical stimulation?	Jian Dong	Faculty of Medicine, Aalborg University	Rehabilitation / Rehabilitation Technologies
P11.62	A treatment with roller-massager improves the oxygenation of the upper trapezius muscle:A single-subject research design study	Alessandro Schneebeli	University of Applied Sciences and Arts of Southern Switzerland	Rehabilitation / Rehabilitation Technologies
P11.63	Inter-Structural Release Can Alter Shear Modulus of Resting Non-Symptomatic Muscle	Tomoko Yamashita	Graduate School of Medical Technology and Health Welfare Sciences, Hiroshima International University, Hiroshima, Japan	Rehabilitation / Rehabilitation Technologies
P11.64	Classification Accuracy Of Different Machine Learning Algorithms For Human Activity Recognition	Gabriella Balestra	Politecnico di Torino	Modelling, Signal Processing & Sensing
P11.65	Validation of inertial measurement unit to assess shoulder movement during complex lifting tasks	Isabelle Poitras	Laval university	Modelling, Signal Processing & Sensing
P11.66	Effects of vibrotactile stimulation on force steadiness on the behavior of motor units of the first dorsal interosseous muscle	Carina Germer	School of Electrical and Computer Engineering, University of Campinas	Modelling, Signal Processing & Sensing
P11.67	Relationship between isometric muscle force and fractal dimension of surface electromyogram in the biceps brachii muscle	Matteo Beretta-Piccoli	University of Applied Sciences and Arts of Southern Switzerland	Modelling, Signal Processing & Sensing

Poster Session III

Monday, 2nd July

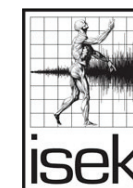


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Poster Number	Title	Presenting Author	Affiliation	Theme
P111.1	Phase-dependent gait variability in self-paced treadmill walking	Kenji Kato	National Center for Geriatrics and Gerontology	Biomechanics
P111.2	Differentiating Lifting Fatigue Waveforms using a Principal component approach	Wayne Albert	University of New Brunswick	Biomechanics
P111.3	Kinematic Of The Shoulder During Two Humeral Head Procedures	Marco Barbero	University of Applied Sciences and Arts of Southern Switzerland	Biomechanics
P111.4	The role of head movement in human balancing	Rita Kiss	Budapest University of Technology and Economics	Biomechanics
P111.5	Reliability of Spatial Representation of Soleus Muscle Activity Using High Density EMG and Different Electrode Grid Orientations	Usha Kuruganti	University of New Brunswick	Biomechanics
P111.6	Multisegment Foot Mechanics During Walking in Children with Autism	Victoria Chester	University of New Brunswick	Biomechanics
P111.7	The Effects of Prolonged Lifting in the Emergency Medical Services	Brett MacLean	University of New Brunswick	Biomechanics
P111.8	Effect of force plate coverings on vertical ground reaction forces	Massimiliano Ditroilo	University College Dublin	Biomechanics
P111.9	Adaptations in Foot-Ground Interactions During a progressive 12-week Running Intervention in Footwear with Reduced Cushioning	Yumna Albertus	University of Cape Town	Biomechanics
P111.10	Multivariate analysis reveals effects of hop direction and leg on the biomechanics of a novel one-leg double-hop test for individuals with unilateral anterior cruciate ligament reconstruction	Ashokan Arumugam	Umeå University	Biomechanics

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Poster Number	Title	Presenting Author	Affiliation	Theme
P111.11	Relationship and differences between kinetics parameters and center of pressure during gait with ankle bracing orthosis and barefoot	Hamidreza Barnamehei	Islamic Azad University of Science and Research Branch	Biomechanics
P111.12	Recording of EMG activity from tibialis posterior with fine-wire: A protocol	Joanna Reeves	University of Salford	Modelling, Signal Processing & Sensing
P111.13	Locally-Time-Warped and Gaussian-Kernel-Weighted MUP Template Estimation	Andrew Hamilton-Wright	University of Guelph	Modelling, Signal Processing & Sensing
P111.14	Square Drawing Test for Motor Capacity Modeling in Post-Stroke Individuals	Mirjana Popovic	Belgrade University - Institute for Medical Research	Modelling, Signal Processing & Sensing
P111.15	Relationship between fractal dimension and firing rate slopes in quadriceps muscle during fatiguing contractions	Corrado Cescon	University of Applied Sciences and Arts of Southern Switzerland	Modelling, Signal Processing & Sensing
P111.16	A Mathematical Model of Action Potential Propagation, Force Production, and Fatigue in Skeletal Muscle Fibres	Sageanne Senneff	University College Dublin	Modelling, Signal Processing & Sensing
P111.17	Influence of electrode locations for evaluation of muscular fatigue on biceps brachii muscle	Aya Shirai	The University of Electro-Communications	Modelling, Signal Processing & Sensing
P111.18	The effects of exercise-induced fatigue and eccentric muscle damage on kinesthesia	Romeo Chua	The University of British Columbia	Motor Control
P111.19	The effects of intermittent blocking of visual information on walking in elderly persons	Hitoshi Makabe	Yamagata Prefectural University of Health Sciences	Motor Control
P111.20	Change of EMG and MMG amplitude on human vastus medial muscle with aging	Kazuyuki Mito	The University of Electro-Communications	Motor Control

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P111.21	Beta late than never: Beta rhythm suppression during action observation is sensitive to somatosensory experience in an object manipulation task	Kelene Fercho	University of South Dakota	Motor Control
P111.22	Mixed nerve silent period evoked from Opponens pollicis muscle during a precision motor task with the isometric contraction of the ipsilateral knee extension	Shinichi Daikuya	M3 Doctor Support, Inc.	Motor Control
P111.23	Opponens pollicis long latency reflex during the ipsilateral sustained knee torque maintenance.	Yumi Okayama	Osaka University of Human Sciences	Motor Control
P111.24	Effects of sharing goals with others on sense of agency and perceptual motor learning	Kazuki Hayashida	Department of Neurorehabilitation, Graduate School of Health Sciences, Kio University	Motor Control
P111.25	Forearm muscle synergies during ramp-and-hold gripping in individuals with chronic elbow pain	Nagarajan Manickaraj	Griffith University	Motor Control
P111.26	Effects of Self-determined choice on motor skill learning and retention	Makoto Hiyamizu	Kio University	Motor Control
P111.27	Shared common input to hand muscles during a two-degrees of freedom force task reveals muscle synergies	Carina Germer	School of Electrical and Computer Engineering, University of Campinas	Motor Control
P111.28	EMG activity and function of abductor hallucis during fatigue and postural sway	Kevin Keenan	University of Wisconsin-Milwaukee	Motor Control
P111.29	Sub-sensory electrical stimulation modifies response to haptic perturbations during walking in a clinical exoskeleton	Giacomo Severini	University College Dublin	Motor Control
P111.30	Bilateral Deficit in Human Upper Body Muscles	Xin Ye	The University of Mississippi	Motor Control

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P111.31	Cortical contribution to lower leg muscle function during quiet standing	Andrew Lavender	Curtin University	Motor Control
P111.32	Immediate changes in chest and pelvic kinematics after different types of trunk muscle exercises	Kazuma Uebayashi	Suzuki Clinic Orthopaedic River City	Motor Control
P111.33	Motor unit recruitment is altered, albeit slightly, when acute pain is induced in the an unrelated or antagonist muscle	Kylie Tucker	University of Queensland	Motor Control
P111.34	Muscle activation patterns of the gluteus maximus and hamstrings during a prone hip extension assessment	Kirsty Hopgood	University of Gloucetsreshire	Motor Control
P111.35	Effect of relationship between kinematics and neuromuscular parameters on motor control during high-heeled gait	Mohammad Barnamehei	Islamic Azad University of Science and Research Branch, Tehran, Iran	Motor Control
P111.36	Functional interhemispheric connectivity of motor cortices in ALS	Stefan Dukic	School of Medicine, Trinity College, The University of Dublin	Motor Disorders & Neurophysiology
P111.37	Assessing Cortico-Muscular Communication in Motor Neuron Disease	Amina Coffey	Trinity college Dublin	Motor Disorders & Neurophysiology
P111.38	Trunk instability with shank muscle co-contraction is masking the potential of walking ability in patients with post stroke hemiplegia	Naomichi Mizuta	Kio University	Motor Disorders & Neurophysiology
P111.39	Myoelectric manifestations of fatigue in people with multiple sclerosis	Matteo Beretta-Piccoli	University of Applied Sciences and Arts of Southern Switzerland	Motor Disorders & Neurophysiology
P111.40	The effect of Exercise on Plantar Pressure Distrubition in Children with Hemiplegic Cerebral Palsy	selda uzun	Marmara Universitesi	Motor Disorders & Neurophysiology

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P111.41	Reliability of knee-extensor neuromuscular function assessment and fatigue in a healthy female population	Paul Ansdell	Northumbria University	Motor Performance and Sports Science
P111.42	The Effect Of Visual Feedback And Support In The Gluteus Medius Muscle Recruitment During Pelvic Drop Exercise	Juliano Luccas	Universidade Federal do Amapá	Motor Performance and Sports Science
P111.43	Simulation Of Racing Strategy In Rowing	Pornthep Rachnavy	Suranaree University of Technology	Motor Performance and Sports Science
P111.44	An example of muscle activity during golf swing in submerged condition	Koichi Kaneda	Chiba Institute of Technology	Motor Performance and Sports Science
P111.45	The relativity between quality of double leg circle on the pommel horse and superficial back muscles fatigue trend in gymnastics	Shuhei Kameyama	Niigata.univ	Motor Performance and Sports Science
P111.46	Effect of resistance tights on neuromuscular activation of biceps femoris muscle	Shuhei Kawade	MTG Co.,Ltd.	Motor Performance and Sports Science
P111.47	Contralateral adaptations in rate of force development and rate of muscle activation following unilateral isometric training	Joshua Carr	University of Oklahoma	Motor Performance and Sports Science
P111.48	The relativity between pedaling characteristics and both EMG aspect and muscle fatigue	Wakui Kengo	Niigata University	Motor Performance and Sports Science
P111.49	Knee Stabilization Strategies In ACL-Injured And ACL-Reconstructed Individuals In Response To Soccer-Specific Loading: A Preliminary Investigation.	Stefano Nuccio	University of Rome "Foro Italico"	Motor Performance and Sports Science
P111.50	Does it Count if You Can't Count it? Using Multiple Research Methods to Prepare Kinesiology Practitioners	Sean Sullivan	California Baptist University	Motor Performance and Sports Science

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P111.51	Evaluating Balance, Cognition, Ocular Motor Function & Patient Reported Symptoms to Guide Return to Play after Concussion	Jeff Sullivan	Point Loma Nazarene University	Motor Performance and Sports Science
P111.52	Does the myoelectric fatigue manifest locally on pectoralis major muscle during inclined bench press exercise?	Leonardo de Souza	Federal University of Rio de Janeiro	Motor Disorders & Neurophysiology
P111.53	Effect of indirect vibration on sensorimotor transmission in the human upper limb	Amit Pujari	University of Hertfordshire and University of Aberdeen	Motor Disorders & Neurophysiology
P111.54	Interhemispheric Facilitation of Corticospinal Pathways Induced by Short Duration tACS	Glenn Calvert	Trinity College Dublin	Motor Disorders & Neurophysiology
P111.55	The Common Drive Index Does Not Change in Patients in an Acute Phase After an ACL Reconstruction Surgery.	Rony Silvestre	MEDS clinics	Motor Disorders & Neurophysiology
P111.56	Muscle Thickness and Motor Unit Number of Vastus Lateralis Muscle in an Acute Phase After an ACL Reconstruction.	Macarena Soldan	MEDS clinics	Motor Disorders & Neurophysiology
P111.57	Effects of Spinocerebellar Ataxia on muscular activity in jaw postural conditions	Ligia Maria Napolitano Gonçalves	School of Dentistry of Ribeirão Preto, University of São Paulo	Motor Disorders & Neurophysiology
P111.58	Distinguishing clinical phenotypes in basal ganglia disease using wrist-worn accelerometers during the Clinch Token Transfer Test	Sam Woodgate	Cardiff University	Motor Disorders & Neurophysiology
P111.59	Relationship between muscle swelling immediately after resistance training and muscle hypertrophy after 6-week intervention	Tetsuya Hirono	Graduate School of Medicine, Kyoto University	Rehabilitation / Rehabilitation Technologies
P111.60	Coupling robotic tasks and surface electromyography to assess muscle fatigue in children with neuromuscular diseases	Maddalena Mugnosso	Istituto Italiano di Tecnologia	Rehabilitation / Rehabilitation Technologies

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P111.61	Muscle Contraction Evaluation during Recumbent bicycle Pedaling by using the MMG/EMG Hybrid Transducer System	Hisao Oka	Okayama University	Rehabilitation / Rehabilitation Technologies
P111.62	Immediate effects of Whole Body Vibration on electromyographic activity of ankle muscles in elderly.	Liane Macedo	Federal University of Rio Grande do Norte	Rehabilitation / Rehabilitation Technologies
P111.63	Evaluation of Achilles Tendon stiffness during contraction: A comparison of different Sonoelastography	Alessandro Schneebeli	University of Applied Sciences and Arts of Southern Switzerland	Rehabilitation / Rehabilitation Technologies
P111.64	The visual contribution to postural control during visual feedback-based tasks	Fabio dos Anjos	Politecnico di Torino	Rehabilitation / Rehabilitation Technologies
P111.65	Scan-To-Knit - A platform for personalised smart textiles research and development with a special focus on prosthetics	Leif Sandsjö	University of Borås	Rehabilitation / Rehabilitation Technologies
P111.66	Characteristics of writing for persons with Essential tremor and with Parkinsonism tremor and the effect of the restraint appliance (Palm Supporter)	Kazuyoshi Sakamoto	The University of Electro-Communications	Rehabilitation / Rehabilitation Technologies
P111.67	Dexterous Prosthesis and Structured Training Can Reduce Compensatory Movements in Upper-Limb Amputees	Ivan Vujaklija	Imperial College London	Rehabilitation / Rehabilitation Technologies
P111.68	Relationship between muscle architecture and functional capacity in older adults	Alejandro Galán-Mercant	University of Jaén	Rehabilitation / Rehabilitation Technologies