



Poster Sessions Schedule

Poster session 1 A, Thursday 15th September, 9.00-11.00 - Chair: Bogdan Bacik, Teresa Zwierko	
P1A_1	Albani G., Paone P., Galuppo L., Picconi R., Pozzuoli G., Rossi S., Veneziano G., Pendolino L., Comi C., Costantino C., Mauro A. Amelioration of movement by relieving pain: the case of vibromechanical stimulation on Parkinson's disease patients in a preliminary report
P1A_2	Alharabi S., Schinkel-Ivy A., Patterson K., Jones R., Mansfield A., Hollands K. Effects of temporal asymmetry of gait on knee loading in stroke survivors
P1A_3	Anderlini D., Wallis G. Why do stroke patients with aphasia show impeded motor recovery. A story of mirror neurons in ba44
P1A_4	Aune, M.A., Djuvsland A., Aune T.K. Differences in reaction time for proximal and distal effectors in in upper extremities
P1A_5	Bastlová P., Szmeková L.; Kolářová B. Krobot A. Evidence based medicine and mirror therapy for hemiparetic upper limb
P1A_6	Błażkiewicz M., Wyszomirska I., Brzuszkiewicz-Kuźmicka G., Wit A. Evaluation of ankle muscle speed during steppage gait – case study
P1A_7	Boczula G., Poświata A., Cygoń K., Bednorz R., Rusek S. Effects of locomotion training with assistance of EKSO GT™ in patient with multiple sclerosis - case report
P1A_8	Bongers R.M., Tuitert I., Golenia L. Joint angle exploration and feedback when learning to use a complex tool
P1A_9	Devetak G. F., dos Santos V. L., Boumer T. C., Manfra E. F. Kinematic differences of post-stroke hemiparetic gait with and without assistive devices
P1A_10	Devetak G. F., dos Santos V. L., Manfra E. F, Boumer T. C. Kinematics of compensatory strategies adopted during post-stroke hemiparetic gait
P1A_11	Falisse A., Bar-on L., Desloovere K., De Groote F., Jonkers I. Subject-specific modelling of muscle spasticity
P1A_12	Forczek W., Masłoń A., Curyło M., Frączek B., Suder A. Pregnancy-related adjustments in the walking pattern and lifestyle - a follow up case study

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiowski, Wisła, Poland



P1A_13	Friedman J., Goodman M. Can healthy individuals learn to individuate toe movements? A pilot study
P1A_14	Fryzowicz A., Dworak L. B., Murawa M., Rzepnicka A., Kabaciński J. Changes in gait kinematics in young woman with varus knee malalignment after high tibial osteotomy: a case study
P1A_15	Gnat R., Dziewońska A., Biały M. Does the brain activity change under the influence of experimental nociceptive stimulation during two types of abdominal musculature activation?
P1A_16	Golenia L., Schoemaker M. M., Mouton L. J., Bonger R. M. Exploring task solutions during development
P1A_17	Grässler B., Hökelmann A. DC potential as marker of cognitive performances of seniors?
P1A_18	Hiley M., Yeadon F. Control of pace in a whole body co-ordinated movement
P1A_19	Hirjaková Z., Šingliarová H., Kimijanová J., Bučková K., Bzdúšková D., Valkovič P., Hlavačka F. Postural asymmetry before and after anterior cruciate ligament surgical reconstruction
P1A_20	Hlušík P., Opavský J., Hok P., Kutín M., Tüdös Z., Kaňovský P. Motor control and autonomic changes induced by pressure stimulation according to vojta therapy
P1A_21	Katona P., Hegedus A. The effect of fatigue on the control of the knee extensor muscles during different contraction types
P1A_22	Ketlyn M. S., Boumer T. C., Manffra E. F., Santos V.L. Relationship between weight-bearing symmetry and plantar cutaneous sensation in post stroke
P1A_23	Kimijanová J., Hirjaková Z., Bučková K., Bzdúšková D., Hlavačka F. Influence of vision on gait initiation
P1A_24	Kisiel-Sajewicz K., Marusiak J., Rojas-Martínez M., Janecki D., Chomiak S., Kamiński Ł., Mañanas M. Á., Jaskólska A. Computer aided training increase muscle activity in person with bilateral upper limb congenital transverse deficiency compared to healthy control subject. A case study.
P1A_25	Kolář P., Krobot A., Kolářová B., Grufíková P. The effect of knee brace and kinesiotape on gait kinetic parameters in patients after anterior cruciate ligament reconstruction

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiewski, Wisła, Poland



P1A_26	Kolářová B., Krobot A., Kolář P., Hlušík P., Polehlová K. Muscle activity inhibition in lower limb muscles during gait imagery tasks
P1A_27	Doumas M., Knox R., Carmichael O., Craig C., C. Postural control deficits in autism spectrum disorder: sensory acuity vs. Sensory integration
P1B_28	Chesney Craig, Daniel Goble & Mihalis Doumas The Relationship Between Muscle Co-contraction and Proprioceptive Acuity in Older Adults' Postural Control is Task-Dependent.
P1B_29	Rao N., Kumar N., Mutha P. K. Selective suppression of adaptation to motor errors irrelevant to task success
Poster session 1 B, Thursday 15th September, 9.00-11.00 - Chair: Katarzyna Kisiel-Sajewicz, Rafał Stemplewski	
P1B_1	Kubonova E., Svoboda Z., Janura M., Gallo J., Novakova Z. Lower limb joints stability in patients undergoing total hip arthroplasty
P1B_2	Maciaszek J., Skrypnik D., Ratajczak M., Stemplewski R., Osiński W., Bogdański P., Mądry E., Walkowiak J., Karolkiewicz J. The role of different exercise programs on back pain and functional fitness among middle-aged obese women
P1B_3	Niewiadomski W., Strasz A., Karbowniczek A., Gasiorowska A., Zylinski M., Młyńczak K., Cybulski G., Palasz E., Niewiadomska G. The influence of prolonged whole body vibration training on maximum static force of knee extensors in Parkinson's disease patients
P1B_4	Ogrodnik J., Piszczatowski S., Syczewska M. The possibility of evaluation of the pathological muscle function using modelling simulation
P1B_5	Opara J., Grzybowska-Ganszczyk D. Questionnaires measuring leisure-time physical activity in Parkinson's disease
P1B_6	Stania M., Król P., Sobota G., Bacik B., Juras G. Significance of the whole-body vibration frequency for power enhancement – a pilot study
P1B_7	Silva A. F., Figueiredo P., Seifert L., Fernandes R. J. Control parameter' determination when manipulating task constraints
P1B_8	Etemadi Y. Step adjustment is impaired in persons with multiple sclerosis

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiowski, Wisła, Poland



P1B_9	Sosnik R., Tadipatri V.A., Tewfik A. H., Pellizzer G. Please repeat - classification of 3D reach targets from electroencephalographic signals is enhanced by repetition
P1B_10	Sousa A. S. P. Chronic ankle instability is not an unilateral phenomenon. A review of the literature based on neurophysiological and biomechanical fundamentals
P1B_11	Sousa A. S. P., Macedo R. Do shoulder motor control impairments remain in the year following the last pain episode?
P1B_12	Czupryna K., Nowotny-Czupryna O., Roziak J., Czapla P., Cygoń K., Poświata A., Konopelska A., Jureczko P. The possibilities of improvement gait symmetry in cerebral palsied children treated with using of robotic exoskeleton - preliminary report
P1B_13	Stania M., Słomka K.J., Chmielewska D., Błaszczak E., Juras G. The acute effects of mechanical vs. electrical stimuli on countermovement jump – a pilot study
P1B_14	Stöckel T., Kesper F., Sternberg P., Suhr H., Mau-Moeller A. Cognitive control processes associated with the human gait
P1B_15	Svoboda Z., Janura M., Kubonova E., Kutilek P., Tomcalova K., Richards J. Do subjects with lumbar disc herniation have a different range of movement and movement variability than healthy controls?
P1B_16	Szmeková L., Havelková J., Katolická T., Bastlová P., Krobot A. The efficiency of cognitive therapy using virtual reality on upper limb mobility in stroke patients
P1B_17	Gucluover A., Kutlu M. The analysis of home and away performance of national soccer teams promoted to and dropped from the super league
P1B_18	Van der Veen S.M.J., Hammerbeck U., Hollands K.L. Reactive vs. planned target-stepping ability in stroke survivors
P1B_19	Van der Veen SMJ., Hammerbeck U., Blaakmeer JE., Hollands MA., Hollands KL. Ability to alter shorten or lengthen steps varies according to walking speed in healthy young adults
P1B_20	Wacławek A., Ślubowska E., Niewiadomski W., Strasz A., Karbowniczek A., Gasiorowska A., Cybulski G., Palasz E., Niewiadomska G. Assessment of hand tremor in Parkinson's disease patients during tracing task based on dominant direction of palm oscillation.
P1B_21	Wieczorek M., Cygoń K., Poświata A., Roziak J.

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiowski, Wisła, Poland



	Functional upper extremity evaluation after a therapy with the usage of Pablo device in addition to a standard post-stroke rehabilitation – case report
P1B_22	Zylinski M., Niewiadomski W., Strasz A., Karbowniczek A., Gasiorowska A., Cybulski G., Palasz E., Niewiadomska G., Berka M. Are smartwatches viable for monitoring patients with Parkinson's disease?
P1B_23	Govindarajalu R. A systematic review of motor control researches in developmental disabilities.
P1B_24	Kamieniarz A., Pawłowski M., Szczepańska J., Kania D., Szeffler-Delera J., Siuda J., Rudzińska-Bar M., Juras G. Balance asymmetry during crossing the obstacles in parkinson's disease patients (pilot study)
P1B_25	Knast K., Kamieniarz A., Gorzkowska A., Szeffler-Delera J., Kania D., Żmuda W., Rudzińska-Bar M. Movement disorders in dementia
P1B_26	Socha T., Roczniok R., Morys M. Application of regression model to predict top women epee fencers performance
P1B_27	Szmeková L., Kynčlová P., Bastlová P., Krobot A. Functional training of walking with the use of augmented reality for patients recovering from a stroke
Poster session 2 A, Friday 16th September, 9.00-11.00 - Chairman:	
P2A_1	Arsham S., Shahdoost K. The effect of upper limb localized fatigue on performance of expert and novice archery shooters: task vs. individual constraints
P2A_2	Beck M. L., Błaszczuk J. W. New directional indices of postural sway – influence of gender effects in young healthy subjects
P2A_3	Bizovska L., Svoboda Z., Kubonova E., Janura M. Local dynamic stability during overground walking as a fall risk predictor in elderly – a prospective study
P2A_4	Bonnet C.T., Szaffarczyk S., Baudry S. The strength of the interaction between postural and visual behaviors may change as a function of the difficulty of the visual task
P2A_5	Borzucka D., Król H., Rektor Z. Influence of an extrinsic motivator on mechanical parameters of the vertical jump
P2A_6	Botzheim L., Malik S., Mravcsik M., Zentai N., Laczko J. Comparison of muscle activities during arm cycling in horizontal and vertical planes

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiowski, Wisła, Poland



P2A _7	Bučková K., Bzdúšková D., Hirjaková Z., Kimijanová J., Hlavačka F. Frequency analysis of body sway in overweight adults during stance
P2A _8	Bzdúšková D., Hirjaková Z., Kimijanová J., Bučková K., Hlavačka F. Age-related changes of human balance during quiet stance assessed by posturography and accelerometry
P2A _9	Chmura P., Podgórski T., Konefał M., Zajac T., Andrzejewski M., Rokita A., Chmura J. Changes in kinematic and biochemical parameters in soccer players taking part in repeated one-on-one matches
P2A _10	Cieślińska-Świder J., Błaszczuk J. Effects of body weight reduction on postural stability
P2A _11	Fietzer A. L., Koyama Y., Kulig K. Shifted focus of attention alters the structure of variability during hopping
P2A _12	Freitas L., Silva A. F., Pyne D. B., Fernandes R. J. Self-organization behaviour in swimming with task constraints manipulation
P2A _13	Furmanek M.P., Solnik S., Piscitelli D., Rasouli O., Falaki A., Latash M. L. Voluntary sway tasks: performance, multi-muscle synergies and motor equivalence
P2A _14	García-Massó X., Estevan I., Izquierdo R., Villarrasa-Sapiña I., Gonzalez L.M. Profiles of postural control in children from 6 to 12 years old: a self-organizing maps approach
P2A _15	Gołaś A., Maszczyk A., Zajac A., Langfort J. The patterns changes of muscle activity in the bench press
P2A _16	Smoter M., Jędrzejczyk-Góral B., Kumorek M., Mroczek D., Mraz M., Ignasiak Z., Kawczyński A. Effects of transcranial direct stimulation therapy on muscle stiffness in children with cerebral palsy, as measured by myotonometry.
P2A _17	Iskra J., Przednowek K., Plewnia D. The development of sporting talent (sports ontogenesis) within the throwing disciplines – in search of a suitable statistical method to assess long term sporting careers
P2A _18	Jurkojć J., Michnik R., Czapla K. The influence of kinematics of volleyball spike on loads in the shoulder joint
P2A _19	Kabaciński J., Murawa M., Dworak L. B., Fryzowicz A. A comparison of muscle strength and power output ratios between female basketball and volleyball players
P2A	Kołodziej E., Tchórzewski D., Jaworski J.

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiowski, Wisła, Poland



_20	Differences in postural stability between the athletes from various winter sports
P2A _21	Konefał M., Podgórski T., Chmura P., Zając T., Andrzejewski M., Chmura J. Changes in kinematic and hormonal parameters in soccer players taking part in repeated one-on-one matches
P2A _22	Król H., Kmieciak K. Kinematics of the barbell during the flat bench press in bodybuilder and powerlifter
P2A _23	Kruszyński M., Chabuda A., Wiśniowska J., Czerwosz L. Effect of a dual-task cognitive-motor training using the Nintendo Wii balance board
P2A _24	Krzepota J., Sadowska D., Piasecki L., Zwierko T. Gaze behavior during serve reception in volleyball players with different levels of expertise
P2A _25	Kuba L., Kantyka J. The effect of short-term pilates training on elderly women's balance in relation to age
P2A _26	Łukasik E., Skublewska-Paszowska M., Montusiewicz J., Smółka J., Pszczoła-Pasierbiewicz I. Analysis of rowing using a motion capture system
P2A _27	Łysoń B., Błażkiewicz M., Kwacz M., Wit A. Muscle forces of lower extremities in glide shot put technique
P2A _28	Maszczyk A., Gołaś A., Mostowik A., Zając A., Langfort J. Determination of predictors and predicting javelin throw sports results using regression and neural models
P2A _29	Bonnet C. T., Delval A., and Defebvre L. Impairments in mediolateral postural control in patients with parkinson's disease
Poster session 2 B, Friday 16th September, 9.00-11.00 - Chairman:	
P2B _1	Opala-Berdzik A., Głowacka M., Wilusz K., Juras G. Comparison of postural sway amplitude between school-age, national-level, female acrobatic gymnasts and untrained female peers
P2B _2	Opavsky J., Habara J., Krejci J., Elfmark M., Opavska H. Kinesimetric assessment of the ability to perform and repeat the trunk forward leaning-reposition test in subjects with non-specific low back pain
P2B _3	Petković E., Veličković S., Bubanj S., Stanković R., Stanković D. The kinematic modeling of the technique clear hip circle to handstand on the uneven bars – a case study

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiowski, Wisła, Poland



P2B _4	Przednowek K., Iskra J., Krzeszowski T., Wiktorowicz K. Evaluation of kinematic parameters of hurdles clearance during fatigue in men's 400m hurdles - research using the method of computer vision
P2B _5	Przednowek K.H., Przednowek K. The structure and composition of the body and the jumping ability of girls practising modern dance
P2B _6	Serrien B., Hohenauer E., Clijsen R., Baeyens J. P., Küng U. Balance coordination strategies on slacklines: analysis by means of self-organizing maps.
P2B _7	Skrypko A., Lamcha Ł. Comparison of biomechanical structure of the running on a treadmill and in nature conditions.
P2B _8	Skublewska-Paszowska M., Łukasik E., Smołka J. Analysis of the professional tennis forehand and backhand strikes using a motion capture system
P2B _9	Stastny P., Heller J., Arnošt P. The longitudinal conditioning profile of elite adolescent Czech ice hockey players
P2B _10	Stemplewski R., Maciaszek J., Osiński W. Single bout of exercise effect on postural control in older men with different level of habitual physical activity
P2B _11	Struzik A., Zawadzki J., Pietraszewski B. Application of the index of balance-stiffness for evaluation of the process of maintaining body balance
P2B _12	Szczepańska J., Kamieniarz A., Pawłowski M., Słomka K.J. , Juras G. The influence of additional body load on COP trajectory while testing the limits of postural stability
P2B _13	Śliwa A., Łysakowska- Będek B., Cygoń K. The impact of specialist training of the muscles responsible for the rotation of the lumbar spine in equalization of imbalance and improve muscle strength. Preliminary report
P2B _14	Tuitert I., Bootsma R.J., Bongers R.M. Does flexibility increase when the interception location of a moving target is uncertain in a manual interception task?
P2B _15	Valk, T.A., Mouton, L.J., Bongers, R.M. Joint-angle coordination patterns ensure stabilization of a body-plus-tool system in point-to-point movements with a rod
P2B _16	Valk, T.A., Mouton, L.J., Bongers, R.M. Changes in the organization of muscle synergies during multidirectional point-to-point movements with rods of different lengths

Motor Control 2016 (www.motorcontrol2016.pl):

14-16.09.2016, Hotel Gołębiowski, Wisła, Poland



P2B _17	Wąsik J., Góra T., Nowak K. Kinematics of sports taekwon-do punches
P2B _18	Wolański W., Gieremek K., Suchoń S., Burkacki M., Gruszka J., Gzik M. Does vibration affect upper limb joints during nordic walking?
P2B _19	Żylinski M., Niewiadomski W., Strasz A., Karbowiczek A., Gasiorowska A., Cybulski G., Palasz E., Niewiadomska G. Reliability of estimated vibration dose value (eVDV) in evaluation of vibration training load
P2B _20	Biegajło M., Nogal M., Niżnikowski T. The effect of different types of feedback during the process of learning a complex gymnastic skill – handspring and salto forward tucked.
P2B _21	García-Ramos A., Jaric S., Pérez-Castilla A., Padiá P., Feriche B. Reliability of mechanical variables assessed from the loaded squat jump
P2B _22	Kurpas Ż., Kurpas W., Szczygiół A., Zając R., Furmanek M.P., Słomka K.J., Juras G. The assessment of posture control in professional ballroom dancers
P2B _23	Niżnikowski T., Wiśniowski W., Bujak Z., Biegajło M., Nogal M Key elements of double salto backward stretched gymnastic routine
P2B _24	Pawłowski M., Szczepańska J., Kamieniarz A., Zając R., Furmanek M.P. The influence of different visual conditions on focus attention in human equilibrium
P2B _25	Pérez-Castilla A., García-Ramos A., Feriche B., Padiá P., Jaric S. Evaluation of the novel “two-load method” for quick assessment of the mechanical capacities of the leg muscles
P2B _26	Starzak M., Makaruk H., Niżnikowski T. The effects of different task constraints on variability of footfall placement in novice pole vaulters.
P2B _27	Szczygiół A., Bieniek A., Pawłowski M., Guzik-Kopyto A., Michnik R., Bacik B., Juras G. The impact of performance conditions on fencing lunge kinematics (pilot study)
P2B _28	Lyakh V., Niżnikowski T. Analysis of motor learning models theory based on six evaluation criteria and two functions: explanatory and predictive
P2B _29	Stanula A., Ostrowski A., Strzała M., Roczniok R., Maszczyk A. Pacing strategy in swimming on a distance of 200 m freestyle in the years 2000–2012