

7th September 2018 - Human Movement and Sport Biomechanics

9:00-9:45	Plenary Lecture (Bldg. A-10, Aud. H044)	John Rasmussen	<i>Predictive models in biomechanics</i>
	Session (Bldg. A-10, Aud. H044)	Sport Biomechanics I	Chairmans: John Rasmussen Marek Gzik
9:50-10:15	KEYNOTE	Jan Awrejcewicz	Lower limb exoskeleton as a device for gait ability recovery
10:15-10:30		Adam Czaplicki	Analysis of electromyographic and thermographic signals during standardised physical effort in volleyball players
10:30-10:45		Hau-Han Lin	The implementation of IoT device for outdoor fitness equipment
10:45-11:00		Anna Ferreira	Biomechanical characteristics of the forehand smash technique in badminton: pilot study
11:00-11:15		Anna Lisowska	Evaluation of hamstrings and quadriceps in Shotokan karate athletes conducted by isometric test
11:15-11:30		Petr Stastny	The effect movement speed on isokinetic hip rotators torque in trained soldiers
	Session (Bldg. A-2, Aud. 102)	Human Movement I	Chairmans: Michalina Błażkiewicz Jan Awrejcewicz
9:50-10:15	KEYNOTE	Małgorzata Syczewska	Clinical movement analysis and its impact on therapeutic decision making - 40th anniversary of The Children's Memorial health Institute
10:15-10:30		Bartłomiej Zagrodny	Muscle activity during gait – - electromyographic and thermographic point of view
10:30-10:45		Anna Mosiołek	Comparison of selected parameters of stance phase during forward and backward gait
10:45-11:00		Robert Michnik	Mechanical energy expenditure during gait of a patient after bilateral total hip replacement – a longitudinal case study

11:00-11:15		Michał Ludwicki	Criterion of gait stability based on centre of mass displacement
11:15-11:30		Andrzej Bieniek	Analysis of skeletal muscle system loads for the most optimal positions during lifting in different load distances
11:30-12:00	Coffee Break	(Bldg. A-10, Main Hall, Part A)	
	Session (Bldg. A-10, Aud. H044)	Human Movement II	Chairmans: Alicja Rutkowska-Kucharska Adam Czaplicki
12:00-12:25	KEYNOTE	Włodzimierz Erdmann	Systematics of humanmovement
12:25-12:40		Michalina Błażkiewicz	An attempt to estimate body balance strategies based on entropy and kinetic parameters in dynamic movements
12:40-12:55		Anna Hadamus	Analysis of key pressure distribution parameters in balance assessment
12:55-13:10		Yang Shu	The influence of load carriage weight and position during dynamic standing on a Dynamic Support Surface
13:10-13:25		Jan Gajewski	Determinants of the maximum power of the countermovement jump in young athletes
13:25-13:40		Wiktoria Wojnicz	Determination of the relationship between lower limb muscle activities, centre of mass and centre of pressure displacement over stepping
	Session (Bldg. A-2, Aud. 102)	Sport Biomechanics II	Chairmans: Małgorzata Syczewska Wojciech Wolański
12:00-12:25	KEYNOTE	Natalya Kizilova	Sport biomechanics: achievements, trends and perspectives
12:25-12:40		Amadeusz Bartoszek	Application of the BTS system to identify the kinematic gait parameters of Nordic Walking.
12:40-12:55		Włodzimierz Erdmann	Distribution of running velocity of young fit adults: preliminary description
12:55-13:10		Piotr Prochor	The biomechanical effectiveness of a novel concept of an implant for direct skeletal attachment of limb prosthesis

13:10-13:25		Krzysztof Krzysztoforski	Novel control system for high upper limb amputees prosthesis
13:25-13:40		Ching-Ting Hsu	Efficiency weightlifting barbell tracking algorithm by utilizing fast motion estimation scheme
13:40-13:55		Jen-Shi Chen	Analysis of barbell trajectory in 53kg women snatch competition of 2017 summer universiade
14:00-14:30	Closing Ceremony	(Bldg. A-10, Aud. H044)	
14:30-15:30	Lunch	(Bldg. A-10, Main Hall, Part A)	