

11th joint Conference on Motor Control Learning, Biomechanics Training  
HUMAN MOVEMENT AND TECHNOLOGY

**Wednesday 28.9.2016**

Workshops			
09:00 - 12:00	DVS Young Researchers Workshop (2nd day)		S1/18 202
	KISTLER workshop		S1/15 29
	DELSYS workshop		S1/15 015
12:00 - 14:00	Registration		S1/03 204
14:00 - 15:00	<b>Welcome &amp; Keynote: Prof. Dr. Dagmar Sternad</b> (Chair: Hermann Müller) <i>"From simple movements to Complex skills: A Task-Dynamic Approach to motor control"</i>		S1/03 221
15:00 - 15:30	Coffee Break		S1/03 204
15:30 - 17:00	Meet the expert: Prof. Dr. Dagmar Sternad		S1/03 107
15:30 - 17:00	<b>Session 1.1 - Balance</b> (Chair: Dario Tokur)		S1/03 221
15:30	Controlling balance and electromyographic activity of selected lower limb muscles during external perturbation ...	Mehrdad Anbarian	
16:00	Motor modules are not fully preserved during uneven-ground locomotion	Alessandro Santuz et al.	
16:30	Reliability of local dynamic stability assessment during running	Antonis Ekizos et al.	
15:30 - 17:00	<b>Session 1.2 - Game analysis &amp; tactics</b> (Chair: Josef Wiemeyer)		S1/03 223
15:30	Systematic individual player observation in football - Creation of individual perturbationprofiles	Anselm Kühle et al.	
16:00	Game stoppages as a tactical means in international soccer	Claudia Augste et al.	
16:30	A Comparison of two different ways to distinguish winners, drawers and losers in knockout matches of FIFA World Cup 2014	Christian Winter et al.	

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15:30 - 17:00	<b>Session 1.3 - Perception &amp; Action (Chair: Hermann Müller)</b>		S1/03 226
15:30	Gaze behavior and motor performance in penalty kicks: The goalkeeper has no impact on the penalty taker	Johannes Kurz et al.	
16:00	Expertise and multisensory perception lead to earlier intersection of the hand with the ball's flying parabola while catching	Lena Slupinski et al.	
16:30	On the How of controlling movement - improvisation method as a paradigm	Denise Temme et al.	
15:30 - 17:00	<b>Session 1.4 - Biological structures: Support &amp; recovery (Chair: Kiros Karamanidis)</b>		S1/03 175
15:30	Multiple functional testing after ACL reconstruction	Frieder Cornelius Krafft et al.	
16:00	Effect of different knee brace designs on joint kinematics in ACL-deficient patients	Steffen Ringhof et al.	
16:30	A longitudinal Achilles tendon exercise intervention over 1.5 years in older female adults	Gaspar Epro et al.	
17:00 - 18:00	<b>Industry presentation</b>		S1/03 223
17:00 - 18:00	<b>Industry Exhibition</b>		S1/03 113
	<b>Poster Exhibition</b>		S1/03 109
18:00 - 19:00	<b>Assemblies</b>		S1/03 226
	Sektion - Biomechanik		
	Sektion - Trainingswissenschaft		
	Sektion - Sportmotorik		
ca. 19:00	<b>Come together</b>		S1/03 221

**Thursday 29.9.2016**

9:00 - 10:00	<b>Keynote: Prof. Dr. Aaron Couts</b> (Chair: Mark Pfeiffer) <i>"Monitoring athlete training: theoretical concepts and practical applications"</i>		S1/03 221
10:00 - 10:30	Coffee Break		S1 03/204
10:30 - 12:00	<b>Meet the expert: Prof. Dr. Aaron Couts</b>		S1/03 107
10:30 - 12:00	<b>Session 2.1 - Muscle: Force &amp; function</b> (Chair: Tobias Siebert)		S1/03 221
10:30	EMG force relation in human plantar flexors	Benedikt Ferstl et al.	
11:00	The Uniformity of Muscle-Tendon Adaptation is Perturbed by Athletic Training during Adolescence	Falk Mersmann et al.	
11:30	Influence of muscle compression on active muscle force.	Tobias Siebert et al.	
10:30 - 12:00	<b>Session 2.2 - Strength: Diagnostics &amp; training</b> (Chair: Christoph Mickel)		S1/03 223
10:30	Effects of sensorimotor and strength training on trunk muscle activity in sudden trunk loading situations ...	Steffen Müller et al.	
11:00	Isometric trunk muscle strength of German elite athletes in Olympics disciplines – a quantitative survey	Steven Pickardt et al.	
10:30 - 12:00	<b>Session 2.3 - Special: Neurocognitive Aspects of Movement</b> (Chair: Marco Taubert)		S1/03 226
10:30	Is acoustic information relevant for local dynamic gait stability and automaticity of walking?	Daniel Hamacher et al.	
10:50	Correlation of baseline brain structure with subsequent complex motor skill acquisition	Nico Lehmann et al.	
11:10	Physical fatigue affects gait stability in young and older individuals	Dennis Hamacher et al.	
11:30	Temporal dynamics of dance induced neuroplasticity in older adults.	Patrick Müller et al.	
10:30 - 12:00	<b>Session 2.4 - Motor performance</b> (Chair: Adamantios Arampatzis)		S1/03 175
10:30	Motor performance in youth of a South African College in KwaZulu-Natal Province	Rene Hammer et al.	
11:00	Impact of anthropometric characteristics and physical performance components on serve velocity ...	Janina Fett et al.	

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12:00 - 14:00	<b>Lunch Break</b>		S1/03/204
13:00 - 14:00	<b>Industry presentation</b>		S1/03/223
14:00 - 15:00	<b>Keynote: Prof. Dr. Jan Peters</b> (Chair: Josef Wiemeyer) <i>"Motor Skill Learning: From Simple Skills to Table Tennis and Manipulation"</i>		S1/03/221
15:00 - 15:30	<b>Coffee Break</b>		S1/03/204
15:30 - 17:00	<b>Meet the expert: Prof. Dr. Jan Peters</b>		S1/03/107
15:30 - 17:00	<b>Session 3.1 - Motor Control</b> (Chair: Andre Seyfarth)		S1/03/221
15:30	Revealing the muscle's mystery by linearizing?	Karl T. Kalveram et al.	
16:00	Self-stability and motor control in static conditions	Heiko Wagner et al.	
16:30	Effect of unilateral and bilateral external perturbations on trunk muscle reflexes	Andreas Mühlbeier et al.	
15:30 - 17:00	<b>Session 3.2 - Training: Methods &amp; monitoring</b> (Chair: Josef Wiemeyer)		S1/03/223
15:30	Effect of Treadmill vs. Track in Interval Running	Max Niemeyer et al.	
16:00	Active recovery after an exhaustive endurance task enhances the recovery capacity of the central nervous system 24h later	Louis-Solal Geboin et al.	
16:30	Usefulness of monitoring resting heart rate variability during a four-week pre-season preparation period in intermittent sport athletes	Christoph Schneider et al.	

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15:30 - 17:00	<b>Session 3.3 - Motor learning: Visual feedback (Chair: Gerrit Kollegger)</b>		S1/03 226
15:30	Visual Augmentation of Spatiotemporal Errors in a Rowing Task	Ekin Basalp et al.	
16:00	Effects of feedback frequency and visual feedback gain on automaticity and precision in motor learning	Daniel Krause et al.	
16:30	Visuomotor Speed Discrimination in People with Down Syndrome	J. Walter Talentino-Castro et al.	
15:30 - 17:00	<b>Session 3.4 - Varia (Chair: Christian Schumacher)</b>		S1/03 175
15:30	Accuracy of joint angles using markerless silhouette-based tracking and hybrid tracking vs. traditional marker based tracking	Philipp Russ et al.	
16:00	Successive right-left hand motor learning induces intermanual interference	Christian Stockinger et al.	
16:30	Locomotor Stability Control and Vestibular Function among Older Adults: Implications for Falls Prevention and Research	Christopher McCrum et al.	
17:00 - 18:00	<b>Industry Exhibition</b>		S1 03/113
	<b>Poster Exhibition</b>		S1 03/109
20:00 - 23:00	<b>Conference Dinner - Burg Frankenstein</b> <b>Bus-Transfer: Darmstadtium, 19:00</b>		

**Friday 30.9.2016**

9:00 - 10:00	<b>Keynote: Prof. Dr. Maarten Bobbert (Chair: Andre Seyfarth)</b> <i>"Possibilities and limitations of musculoskeletal modelling and optimization in sports and rehabilitation"</i>		S1/03 221
10:00 - 10:30	Coffee Break		S1 03/204
10:30 - 12:00	<b>Meet the expert: Prof. Dr. Maarten Bobbert</b>		S1/03 107
10:30 - 12:00	<b>Session 4.1 - Modeling: Varia (Chair: Thorsten Stein)</b>		S1/03 221
10:30	Predicting elite triathlon performance: A comparison of multiple regressions and artificial neural networks	Marian Hoffmann et al.	
11:00	A neural network model for synergetic control and the dependency of its generalization capability on modality	Jun Nishii et al.	
11:30	Liquid motion – A computational model of ideomotor control	Kim Joris Boström et al.	
10:30 - 12:00	<b>Session 4.2 - Jumping: Training &amp; assessment (Chair: Katrin Hoffmann)</b>		S1/03 223
10:30	Conditioning hops enhance muscle-tendon interaction of the triceps surae muscle during drop jumps	Jakob Kümmel et al.	
11:00	Power-load curves and jumping height in response to short-term traditional and daily undulated loaded vertical jump training	Thiemo Pelzer et al.	
11:30	Evaluation of a measurement system for determining flight times in trampoline sports	Christoph Lenk et al.	
10:30 - 12:00	<b>Session 4.3 - Motor learning: Varia (Chair: Daniel Krause)</b>		S1/03 226
10:30	Feedback valence shows dissociative effects on automaticity and precision in motor learning	Christina Zobe et al.	
11:00	Implicit motor learning in pursuit tracking is not dependent on characteristics of the tracking path	Stefan Künzell et al.	
11:30	On the contribution of different sensory sources to error prediction in a complex motor task measured with EEG	Michael Joch et al.	
10:30 - 12:00	<b>Session 4.4. - Special: Advances in the study of perception and action (Chair: Ralf Kredel, Konstantin Rothkopf)</b>		S1/03 175
10:30	Predictive internal models for interceptive tasks	Joan Lopez-Moliner et al.	
11:00	Towards non-restrictive eye tracking and automated gaze analysis	Ralf Kredel et al.	
11:30	Modeling sequential visuomotor behavior	Constantin Rothkopf et al.	

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12:15 - 14:15	<b>Session 5.1 - Movement &amp; brain (Chair: Markus Gruber)</b>		S1/03 221
12:15	The association between cardiovascular fitness, motor practice and EEG beta power in older adults	Lena Hübner et al.	
12:45	Moderator properties of movement intensity on heart rate	Christina Langhanns et al.	
13:15	The task-specificity of balance training is partly explained by task-specific neural plasticity.	Louis-Solal Giboin et al.	
13:45	High-Definition transcranial direct current stimulation to both primary motor cortices ...	Nils Henrik Pixa et al.	

12:15 - 14:15	<b>Session 5.2 - Perception &amp; disease (Chair: Heiko Wagner)</b>		S1/03 223
12:15	Perception and localization of tactile stimuli at the back in patients with anorexia nervosa	Judith Mergen et al.	
12:45	The effects of congruent and incongruent visual feedback during a rhythmic weight-shifting task ...	Maarten van den Heuvel et al.	

12:15 - 14:15	<b>Session 5.3 - Special: Enhancing auditory and proprioceptive information to increase motor performance (Chair: Gerd Schmitz, Alfred Effenberg)</b>		S1/03 226
12:15	Enhancement of technique acquisition by movement sonification beyond rhythmical adjustments	Ursula Fehse et al.	
12:45	Using Sound to improve motor performance in rowing	Nina Scheffert et al.	
13:15	Instruction and real-time sonification for gait rehabilitation after unilateral hip arthroplasty	Julia Reh et al.	
13:45	Thinking & performing: Effects of below-knee compression garment and secondary task on proprioception	Shashank Ghai et al.	

12:15 - 14:15	<b>Session 5.4 - Special: Emerging technologies to monitor and assist motor learning in movement therapy (Chair: Simon Steib)</b>		S1/03 175
12:15	Perturbation Treadmill Training – Introducing Postural Challenge and Practice Variability in Gait Rehabilitation ...	Simon Steib et al.	
12:45	Changes in Motor Output Complexity during Acute Treadmill Intervention on Parkinson's disease Patients	Cristian Pasluosta et al.	
13:15	Sensor-Based Interactive Balance Training in Older Cancer Patients with Chemotherapy-Induced Peripheral Neuropathy	Michael Schwenk et al.	
13:45	Instrumented gait assessment of postural stability in Parkinson's disease	Heiko Gaßner et al.	

14.15	<b>Farewell</b>		S1 03 221
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