

TBrainBoost Workshop 3.0

Enhancing Healthy Aging: Integrating Motor Control, Exercise, and Technology Transfer



AGENDA

Day 1, 08.10.2025

10:00 – 10:30	Online Registration (Zoom)
	Opening
10:30 – 10:45	Markus Gruber
	Introduction to Workshop
	Michael Schwenk
Block 1: New Frontiers in Postural Control Research	
10:45-11:15	Sensorimotor control of human balance (Talk)
	Markus Gruber, University of Konstanz
11:15-11:30	Coffee Break
11:30-12:00	Augmented Visual Orientation Cues as a countermeasure for vertigo and fall risk (Talk)
	Lorenz Assländer, University of Konstanz
12:00-13:00	Lunch Break
Block 2: Technology-based Balance Training for Falls Prevention: From Lab to Patient to Market	
13:00-13:30	Bringing perturbation-based balance training out of the lab and into the real world (Talk)
	Chris Awai, Lake Lucerne Institute
13:30-14:00	Dose-response relationship of perturbation treadmill-based balance training (Talk)
	Christian Werner, Heidelberg University
14:00-14:30	#FallCheck and #FallVaccine in a falls clinic (Talk)
	Tim Fleiner, University Hospital & University of Applied Sciences, Ulm
14:30-15:00	Coffee Break
Block 3: Novel Assessment and Treatment Strategies: From Lab Research to Real-world Impact to Digital Innovation	
15:00-15:30	Mobile Neuroimaging in Balance and Locomotion Control clinic (Talk)



	Uroš Marušič, ZRS Koper
15:30-16:00	Real-world gait assessment in natural environments: The Mobilise-D approach clinic (Talk) Carl-Philipp Jansen, Heidelberg University Hospital
16:00-16:15	Coffee Break
16:15-16:45	Markerless motion tracking in neurological disease clinic (Talk) Michael Schwenk, University of Konstanz
16:45-17:00	Day 1 Wrap-up Michael Schwenk
17:00	End Day 1
18:30	Speakers' Dinner

Day 2 (Hands-on), 09.10.2025

9:00-10:30	Markerless Motion Tracking Based on Smartphone Video Recordings (Hands-on, Data Theater) Daniel Seebacher / Manuel Stein, Subsequent GmbH
10:30-10:45	Coffee Break
10:45-12:15	Hands-on mobile perturbation-based balance training (Hands-on, Data Theater) Chris Awai, Lake Lucerne Institute
12:15-13:15	Lunch Break
13:15-14:45	Sensory integration for human balance control (Hands-on, Lab) Lorenz Assländers, University of Konstanz
14:45-15:00	Discussion/Coffee Break
15:00-16:30	Mobile Neuroimaging in Balance and Locomotion Control (Hands-on, Lab) Uroš Marušič, ZRS Koper
16:30-17:00	Coffee Break
17:00	Workshop End

