

TBrainBoost Workshop 4.0

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



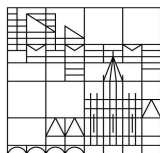
Workshop VENUE

- Data Theatre (Building ZT1204), Universitätsstraße 10, 78464 Konstanz
[Google Maps](#) | [Directions](#)
- Note: The Data Theatre can be quite cool due to the Power Wall – we recommend warmer clothing.

AGENDA (Status: 15.09.25)

Day 1, 08.10.2025

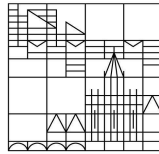
09:00 – 9:30	Registration (on-site participants) and ZOOM log in (online participants)
	Opening
09:30 – 09:45	Markus Gruber, University of Konstanz Introduction to Workshop Michael Schwenk, University of Konstanz
Block 1: Technology-based Balance Training for Falls Prevention: From Lab to Patient to Market	
09:45-10:15	Augmented Visual Orientation Cues as a countermeasure for vertigo and fall risk Lorenz Assländer, University of Konstanz
10:15-10:45	Cognitive-Motor Exergame Training Across Populations and Settings: From Theory to Clinical Implementation Eleftheria Giannouli, ETH Zurich
10:45-11:00	Coffee Break
11:00-11:30	Dose-response relationship of perturbation treadmill-based balance training Christian Werner, Heidelberg University



11:30-12:00	#FallCheck and #FallVaccine in a falls clinic Vanessa Haug, University Hospital & University of Applied Sciences, Ulm
12:00-12:30	Bringing perturbation-based balance training out of the lab and into the real world Chris Awai, Lake Lucerne Institute
12:30-14:00	Lunch Break
Block 2: Novel Assessment and Treatment Strategies: From Lab Research to Real-world Impact to Digital Innovation	
14:00-14:30	Mobile Neuroimaging in Balance and Locomotion Control Uroš Marušič, ZRS Koper
14:30-15:00	Real-world gait assessment in natural environments: The Mobilise-D approach clinic (Talk) Carl-Philipp Jansen, Heidelberg University Hospital
15:00-15:15	Coffee Break
15:15-15:45	Bridging innovation and industry: Advancing robotics technology Kevin de Pauw, Vrije Universiteit Brussel
15:45-16:15	The road to understanding fatigue: What is the relevance for society? Laurisa Arenales Arauz, Vrije Universiteit Brussel
16:15-16:30	Day 1 Wrap-up Michael Schwenk, University of Konstanz
16:30	End Day 1
19:00	Networking Dinner , Constanzer Wirtshaus Spanierstraße 3, 78467 Konstanz; Google Maps

Day 2 (Hands-on), 09.10.2025

9:00-10:00	Markerless Motion Tracking Based on Smartphone Video Recordings (Hands-on, Data Theater) Daniel Seebacher / Manuel Stein, Subsequent GmbH	
10:00-10:15	Coffee Break	
10:15-11:15	Group 1: Mobile perturbation-based balance training (Hands-on, Data Theater) Chris Awai, Lake Lucerne Institute	Group 2: Cognitive-motor Exergame (Hands-on, Data Theater) Mitja Gerzevic, Alma Mater Europaea University



11:15-11:30	Coffee Break	
11:30-12:30	Group 2: Mobile perturbation-based balance training (Hands-on, Data Theater) Chris Awai, Lake Lucerne Institute	Group 1: Cognitive-motor Exergame (Hands-on, Data Theater) Mitja Gerzevic, Alma Mater Europaea University
12:30-13:30	Lunch Break	
13:30-14:30	Group 1: Sensory integration for human balance control (Hands-on, Data Theater?) Lorenz Assländer, University of Konstanz	Group 2: AI made easy: Classifying walking patterns with Python and open data (Hands-on, Data Theater) Matevž Vremec, Alma Mater Europaea University
14:30-14:45	Coffee Break	
14:45-15:45	Group 2: Sensory integration for human balance control (Hands-on, Data Theater?) Lorenz Assländer, University of Konstanz	Group 2: AI made easy: Classifying walking patterns with Python and open data (Hands-on, Data Theater) Matevž Vremec, Alma Mater Europaea University
15:45-16:00	Discussion/Coffee Break	
16:00	Workshop End	