



6TH WINTER SYMPOSIUM OF "THE HUMAN MOTION PROJECT"

Symposium Title:

**Real World Walking Speed - Definition, Measurement,
Validation and Regulatory Acceptance**

27th February 2019

Time: **08:30 - 16:00**

Venue: University Hospital rechts der Isar of the
Technical University Munich (MRI TUM)
Ismaninger Straße 22 – Auditorium B
81675 Munich, Germany

Register till February 25th, 2019

Scan QR-Code or go to:

<https://goo.gl/forms/koSMGNtHe2GuBgRI2>



Information about the previous Winter Symposium:
peerj.com/collections/6-humanmotionproject



Contact:

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FINAL PROGRAM

08:30 Registration & Coffee

09:00 Ethical aspects of digital technology

Christoph Lütge, Technical University of Munich (TUM), Dept.
Business Ethics and Global Governance, GER

**09:15 Towards regulatory acceptance of RWS as a phase III
outcome**

Martin Daumer, SLC-The Human Motion Institute, Trium
Analysis Online, Technical University of Munich (TUM), GER

09:30 Walking speed and rehabilitation

Klaus Jahn, Ludwig-Maximilians-University (LMU), Dept. of
Neurology, German Center for Vertigo and Balance Disorder;
Comprehensive Stroke Unit, Schön Klinik Bad Aibling, GER

09:45 Exercise as medicine

Martin Halle, Technical University of Munich (TUM),
Centre for Prevention, Rehabilitation and Sports Medicine, GER

10:00 Time buffer, Discussion, Coffee break & Posters

**11:00 Extracts from the Copenhagen Consensus Conference
on physical activity and aging 2018**

Ylva Hellsten, Integrative Physiology, Dept. of Nutrition, Exercise
and Sport, University of Copenhagen, DK

11:15 Laufen um zu leben

Barbara Mallmann, Hospizgruppe Freising (palliative care
group), athlete spokeswoman, German National Ultramarathon
Squad, GER

User acceptance of mobility monitoring in elderly people

Florian Schäffner, Patricia Schöntag, Clinical Applications of
Computational Medicine (CACOM), SLC/TUM, GER

**11:30 Master Athletics - How people train and compete when
they are 80**

Jörn Rittweger, German Aerospace Center (DLR), Division of
Muscle and Bone Metabolism, Cologne, GER

**11:45 Time buffer, Discussion, Lunch
Poster, Exhibition & Networking**

FINAL PROGRAM

**13:00 How soon will digital endpoints become a cornerstone
for future drug development?**

Philip Böhme, Bayer, External Innovation Technologies,
Wuppertal, GER

**13:15 Regulatory and legacy aspects: Lessons learned from
PROactive**

Maggie Tabberer, Director, Patient Centred Outcomes, R&D Chief
Medical Office, GSK, UK

13:30 Objective mobility data in a longitudinal ppMS cohort

Jan-Patrick Stellmann, Institute of Neuroimmunology and Multiple
Sclerosis (INIMS), UMC Hamburg-Eppendorf (UKE), GER

13:45 Panel Discussion, Time buffer, Break

**14:15 Gold standard data generation and validation studies:
Towards automated gold standard data creation for motion
capture**

Tim Bicker, Patrick Giang, Weiqi Luo, Clinical Applications of
Computational Medicine (CACOM), SLC/TUM, GER

14:30 Measures of movement quality using wearable sensors

Alejandro Melendez Calderon, cereneo - Center for
Interdisciplinary Research, Vitznau, CH, Visiting Researcher, Dept.
of Health Sciences and Technology, ETH Zürich, CH

14:45 Selected examples of machine learning in medicine:

Fetal acidosis classification from cardiocography data

Pierre Aublin, Sebastian Lettner, Florian Mysliwetz, Clinical
Applications of Computational Medicine (CACOM), SLC/TUM,
GER

**15:00 Cerebral palsy and mobility: Update of the AVAPed
study**

Marcello Grassi, SLC-The Human Motion Institute, Trium
Analysis Online, GER

Isabella Wiedmann, German Aerospace Center (DLR), Division of
Muscle and Bone Metabolism, Cologne, GER

15:15 – 16:00 Discussion, Closing Remark

POSTERS

» An exergame solution to stimulate gait and cognitive functions in older adults: Conceptualization and design considerations
V. Guimarães^{1,2}, A. Carvalho¹, E. Oliveira¹, R. Peixoto¹, A. Pereira¹, J. Sousa¹, N. Cardoso¹ and A. Sousa¹

¹ Fraunhofer AICOS, Porto, Portugal

² Faculty of Engineering of the University of Porto, Portugal

» Prototype inertial measurement testbed for the actibelt RCT3
M. Nagy¹, N. Ntelopoulos¹, T. Zhang¹,

¹ Department of Electrical and Computer Engineering, TU Munich

» Automation of Individual Handmade Shoe Production with Computer Vision

C. Plitz¹, S. Teuven¹

¹ Department of Electrical and Computer Engineering, TU Munich

» Neural Coupling: Can it be overcome by learning?

C. Horlebein¹, P. Caldelari², A. Melendez-Calderon^{2,3}, R. Gassert⁴, V. Dietz⁵

¹ Department of Electrical and Computer Engineering, TU Munich

² Dept. of Health Sciences and Technology, ETH Zürich, CH

³ cereneo - Center for Interdisciplinary Research, Vitznau, CH, Visiting Researcher

⁴ Dept. of Rehabilitation Engineering Laboratory, ETH Zürich, CH

⁵ Spinal Cord Injury Center, Balgrist University Hospital, CH

The organizers reserve the right for rearrangements

REGISTRATION

Registration fee – 6th Winter Symposium

Industry	400€
Public research institution	250€
PhD students	100€
Students	50€
Students presenting poster	free
Interested patients	free
Press	free
Speakers	free

For online registration scan QR-code or go to:

<https://goo.gl/forms/koSMGNtHe2GuBgRI2>



Last minute registration: plus 20%

All Fees include 19% VAT

Symposium fee includes drinks & lunch

General Data Protection Regulation

The applicant agrees that SLCMSR electronically saves and processes personal data necessary for the registration process (§28 GDPR)

Payment of Fees

All fees for registration should be paid in Euro (€) in advance to Sylvia Lawry Centre e.V. – The Human Motion Institute, stating the participant's name and address. Bank charges are the responsibility of the payer and should be paid in addition to the registration fees. Payment can be effected by bank transfer to:

Account holder/: Sylvia Lawry Centre for MS Research e.V.

Financial institution: HypoVereinsbank Munich

SWIFT/BIC HYVEDEMMXXX

IBAN-Code DE70 7002 0270 00 36 198 214

Confirmation

Upon receipt of the correct registration fee, each participant will receive a confirmation of registration.

Cancellation Policy

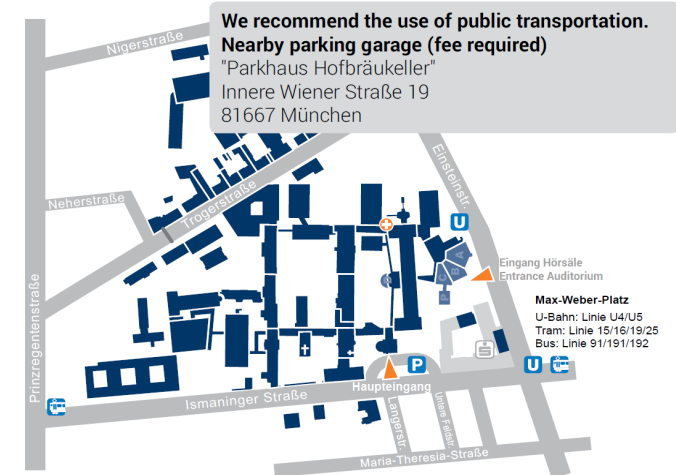
Refund of registration fees will be as follows:

- until 25.02.2019: 50% refund
- No refund on cancellations after February 26th, 2019

**REGISTRATION CLOSING DATE
MONDAY FEBRUARY 25TH, 2019**

GENERAL INFORMATION

Site Map



Academic Partners



Press



BLÄK

This Symposium is registered as a training event by the Bavarian Medical Association. Approved 5 BLÄK medical education credits.

Organizing Committee

Martin Daumer, SLC-Human Motion Institute, Trium, TUM

Bernd Grimm, Past-President EORS, Fellow of International Orthopaedic Research (FIOR)

Jörn Rittweger, German Aerospace Center (DLR), Head of the Division of Muscle and Bone Metabolism



WLAN access in Auditorium B:
BayernWLAN or eduroam

https://www.lrz.de/services/netz/wlan_en/bayernwlan_en/

https://www.lrz.de/services/netz/wlan_en/eduroam_en/