

9TH Virtual Winter Symposium of the HUMAN MOTION PROJECT



Human Motion in times of COVID-19: A booster for walking, the use of wearables in clinical trials and telemedicine in clinical practice?

16 March 2022

09:00-17:00 CET | Virtually through Zoom

Link to access the Symposium will be provided to registered participants

Register until 4 March 2022

Scan QR-Code or go to:

<https://goo.gl/forms/koSMGntHe2GuBgRI2>



Contact: Prof. Dr. Martin Daumer

SLCMSR e.V. -

The Human Motion Institute

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Preliminary PROGRAM

08:45 Registration & Virtual waiting room

09:00 Welcome

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

09:15 Keynote lecture: Triage and Equality — Only chance is fair

Tonio Walter, University of Regensburg, Department of Criminal Law, Judge at the Bavarian Supreme Court, GER

09:45 An upper bound on one-to-one exposure to infectious human respiratory particle

Eberhard Bodenschatz, Gholamhossein Bagheri, Max Planck Institute for Dynamics and Self-Organization Laboratory for Fluid Physics, Pattern Formation and Biocomplexity, Göttingen, GER

10:00 Student Presentation

10:15 Discussion, Coffee break, Time buffer

10:30 A tripartite brain system supporting navigation and memory

Shane O'Mara, Professor of Experimental Brain Research, School of Psychology and Institute of Neuroscience, Trinity College Dublin - the University of Dublin, IRL

10:45 Should we be assessing leg stiffness? Or is it the same as force?

Jörn Rittweger, German Aerospace Center (DLR), Institute of Aerospace Medicine, Cologne, GER

11:00 Exercise, friend or foe in arterial blood clot formation?

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

11:15 EBDiMS – Evidence Based Decision Support in MS

Insa Schiffmann, University Medical Center Hamburg-Eppendorf, Institute of Neuroimmunology and Multiple Sclerosis (INIMS), GER

Preliminary PROGRAM

11:30 Discussion, Lunch break

12:45 Computerized CTG analysis in Oxford: past, present & future ...

Antoniya Georgieva, University of Oxford, Nuffield Department of Women's & Reproductive Health and The Big Data Institute, UK

13:00 Covid-19 as an opportunity - Mobile-monitoring of pregnant women in Denmark

Olav Bennike Bjørn Petersen, Rigshospitalet, Department of Obstetrics and Gynaecology, Copenhagen, DK

13:15 FitMum - a project for the promotion of physical activity during pregnancy to improve maternal and offspring health

Caroline Borup Roland, University of Copenhagen, Department of Biomedical Sciences, DK

13:30 Case study Corona & Telemedicine

Teresa Starrach, Uwe Hasbargen, Perinatal Center Großhadern, Department of Obstetrics and Gynecology, University Hospital, LMU Munich, GER

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

13:45 Student Presentation

14:00 Discussion, Coffee break, Time buffer

14:15 Innovative trial design

Franz König, Medical University of Vienna, Center for Medical Statistics, Informatics, and Intelligent Systems, AUT

14:30 Mobility and physical activity in orthogeriatric patients

Alexander Keppler, Ludwig-Maximilians-University of Munich, Department of Traumatology and Orthopaedic Surgery, GER

14:45 Interactive analysis of data from wearables

Marcin Mider, Trium Analysis Online, GER

Preliminary PROGRAM

15:00 From Project to Practice: Testing Entrepreneurial Ideas using the Lean Startup Method

Oliver Alexy, Technical University of Munich (TUM), Strategic Entrepreneurship, GER

15:15 Student Presentation, in particular of the TUM lecture Clinical Applications of Computational Medicine (CACOM)

Muscle fascicle arching: how it may emerge, and what it may mean to muscles
Jule Heieis (DLR)

Towards an image analysis tool for the research on zero-gravity effects on muscles
Oliver Kovacs, Maresa Fees, Emir Music, Zeineb Chaabouni

Evaluation of at-home fetal heart rate monitoring devices using a physiological phantom
Etay Kalifa Yacov, Andrés Biedma, Defne Tüzün, Ahmet Gülmez

Evaluation of Aerosol Filters in a Gymnasium in Munich
Achraf Zouaghi, Mohamed Zouaghi, Mohamed Koussay Berrahal (TUM)
Benjamin Schober, Simon Wagner, Michael Albani & supported by the AG Technik (Michaeli Gymnasium)

Building Blocks of a Web-Application for the Simulation of COVID-19 Spreading Likelihood
Noor Ali, Ragshanan Ragunathan, Rami Alkafahje

Methods for Evaluating the Antiviral Impact on Home Lightbulbs
Lisa Regler (LMU)

Wheelchair mobility tracking with actibelt
Lukas Volpers, Jakob Lechner, Katharina Bauer

Smart sleep alarm clock based on the regularity of the sleep cycle
Zhihao Zhang, Hongfei Yan, Donghao Song, Yinxian Li, Yake Li

Overview of "Stop Snoring" devices
Yiyi Yao, Yichu Chen, Huiyu Wang

Teeth grinding monitoring with a "Smart-mouthguard" System
Arda Ay, Yanjun Guo, Amir Shadad, Fanlin Meng, Shuheng Xu

Your personal fragrance assistant - Smart Aromatherapy
Yuqicheng Zhu, Wantao Li

Impact on Social Health of Students in Munich due to COVID-19 pandemic
Siyi Dai, Yangcan Zhou, Su-In Hwang

Ca. 16:30 Panel Discussion, Closing Remark

The organizers reserve the right for rearrangements

REGISTRATION

REGISTRATION FEE

We believe in the importance of holding this Winter Symposium and we rely on your attendance to make it a success.

Given the economic impact that COVID-19 is still having across the world the registration fee has been waived off for all participants.

The symposium fee (VAT included) would be charged as follow:

Industry	200€
Academic/Research	100€
Student	50€
TUM CACOM student	free
Interested patient and press	free
Speaker	free

Therefore Donations to support the symposium will be much appreciated and acknowledged.

Donate through your credit card or PayPal.



You can also scan the QR Code.

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If you require assistance regarding your donation, please contact our donor help team at sambo@slcmsr.org

For online registration scan QR Code or go to:

<https://goo.gl/forms/koSMGntHe2GuBgR12>



Zoom Link to access the Symposium will be provided to registered participants

REGISTRATION CLOSING DATE
FRIDAY MARCH 4, 2022

GENERAL INFORMATION

SCIENTIFIC COMMITTEE:

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

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

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

ACADEMIC PARTNERS



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BAYERISCHE LANDESÄRZTEKAMMER

This Symposium will be certified by the Bavarian Medical Association (BLÄK) with medical education points (CME-credits)

+++ Please note, that the event will be recorded and we will make the recording available to registered participants afterwards in order to receive CMEs +++

General Data Protection Regulation

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