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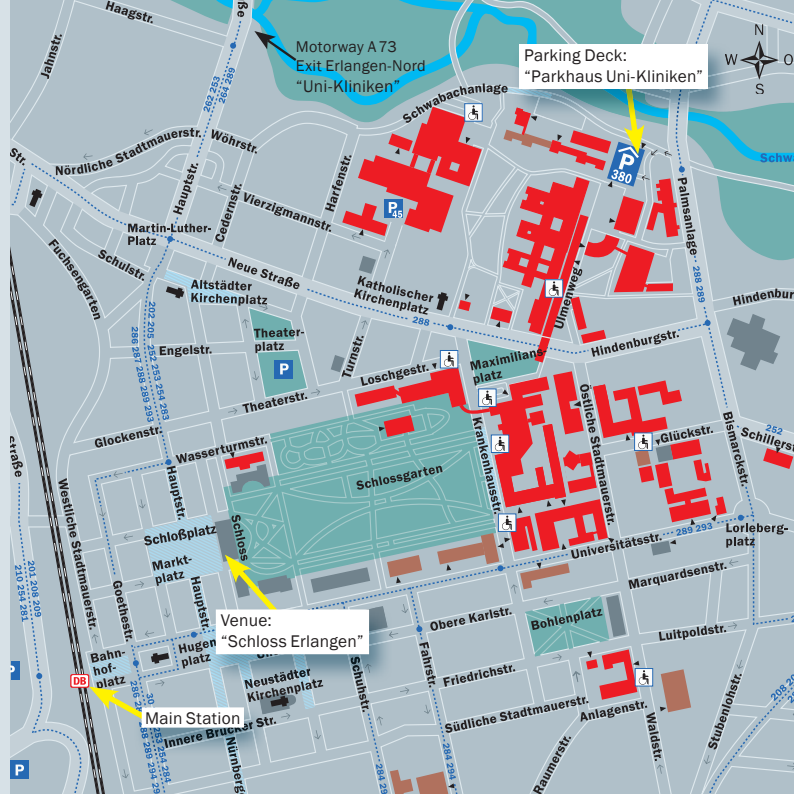
Guests of honor

Dr. Siegfried Balleis
 Mayor, City of Erlangen

Prof. Dr. Gerhäuser
 Bavarian Research Foundation

Prof. Dr. Joachim Hornegger
 Vice President FAU, Erlangen

Prof. Dr. Dr. h. c. Jürgen Schüttler
 Dean, Faculty of Medicine, Erlangen



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AMASE 2013

4th Automated Mobility Analysis Symposium Erlangen

Wednesday, 27th November 2013, 13.00 – 19.00

Venue: Schloss Erlangen – Auditorium
 Schlossplatz 4, 91054 Erlangen, Germany

Faculty of Medicine, Dep. of Molecular Neurology,
 Faculty of Engineering, Pattern Recognition Lab



Dear colleagues,

Mobility defines quality of life in health and disease. Sensor-based information on mobility is increasingly introduced into healthy living. It also supports diagnostic workup and therapeutic decisions in a variety of disorders. In an ageing society impairment of motor function is of increasing medical and economical relevance. In particular neurological, skeletomuscular and cardiovascular disorders reduce the ability to move independently and limit the autonomy of patients. Even though the disease causing mechanisms are specific for each disorder, mobility in general is limited. This makes mobility an important surrogate marker for disease severity and progress, but more importantly for therapeutic decisions and assessment of quality of life.

Modern sensor-based motion detection systems are developed that (I) assess motor function in numerous disorders throughout the course of the disease, (II) support therapeutic decision, and (III) provide objective measurement for therapeutic efficacy in clinical studies. Also, they can be used for early detection of disease entities or progression of disorders.

The 4th **Automated Mobility Analysis Symposium Erlangen** will focus on the current knowledge and applications of motion assessment systems in clinical research.

We kindly invite you to participate in our symposium to be held at the Schloss in Erlangen.

PD Dr. Jochen Klucken
Faculty of Medicine

Prof. Dr. Björn Eskofier
Faculty of Engineering

Program

13.00	Introduction and Welcome Dr. Siegfried Balleis, Prof. Dr. Heinz Gerhäuser, Prof. Dr. Joachim Hornegger, Prof. Dr. h. c. Jürgen Schüttler, Prof. Dr. Jürgen Winkler
13.50	Keynote Lecture
14.20	Wearable Sensing Technology for Quantitative Monitoring of Patients with Mobility Limiting Conditions Dr. Shyamal Patel, Prof. Dr. Paolo Bonato
14.35	Collecting Steps – Mobile and Individualized Analysis of Gait Parameters Dipl.-Ing. Jens Barth
14.50	Biomechanical Assessment of the Effect of Laterally Wedged Insoles Felix Hebenstreit, PD Dr. Götz Welsch
15.10	Biobanking of Gait Signatures – New Concepts for Gait Analysis in Parkinson’s Disease PD Dr. Jochen Klucken
15.40	Coffee Break
16.10	Physical Activity and Posture Behavior Monitoring in Real World Conditions using Body Worn Sensors Prof. Dr. Kamiar Aminian
16.25	Assessing the Risk of Falling in Geriatric Patients Samuel Schüle, Prof. Dr. Karl-G. Gaßmann
16.40	Treadmill Intervention to Improve Balance and Locomotion in Parkinson’s Disease – the StaBLE Project Simon Steib, Prof. Dr. Klaus Pfeifer
17.00	Watch your Step – Realtime Feedback as Therapy in Gait Disorders Dr. Rüdiger Rupp, Prof. Dr. Norbert Weidner
	Coffee Break

Program

17.30	Postural Instability and Gait Disturbances in Parkinson’s Disease – Baseline Data of the EMSA PIGD Study Prof. Dr. Gregor Wenning
18.00	Telemedical Application of Movement Analysis PD Dr. Rene Handschu
18.15	Developing Platform Strategies – How do Platforms Support Prospective Medical Supply Concepts? Chantal Peter
18.30	Pattern Recognition Concepts for Sensor-based Movement Analysis Prof. Dr. Björn Eskofier
18.50	Concluding Remarks PD Dr. Jochen Klucken, Prof. Dr. Björn Eskofier

The symposium is supported by

Astrum IT GmbH



Bayerische Forschungsstiftung



Deutsche Forschungsgemeinschaft



FAU Emerging Fields Initiative



TEVA Pharma GmbH



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Participation in the symposium is certified with six CME points of the “Bayerische Landesärztekammer”.