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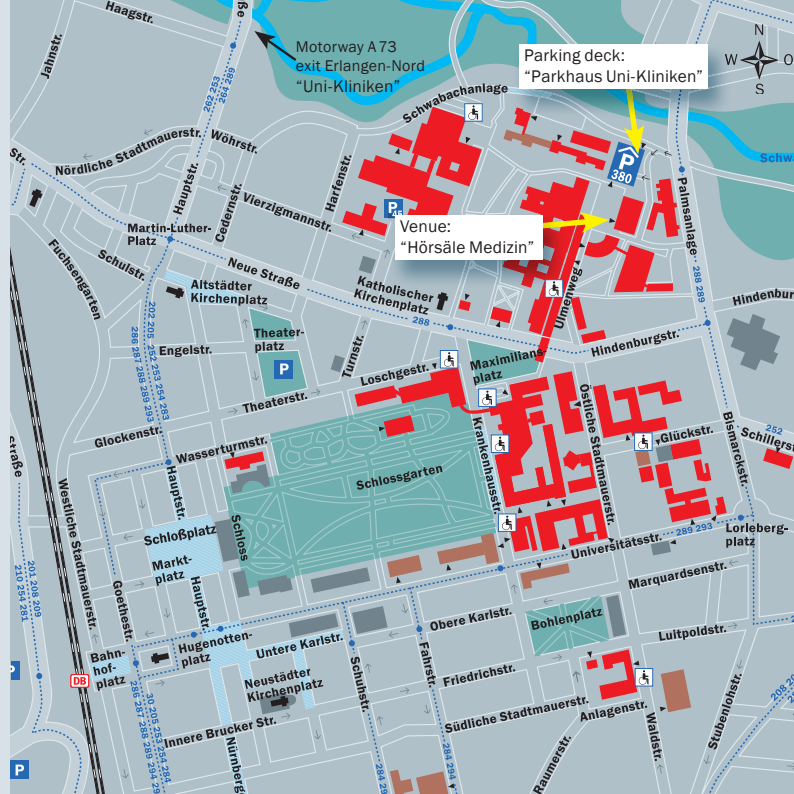
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AMASE

3rd Automated Mobility Analysis Symposium Erlangen

Friday, 7th December 2012, 13.00 – 19.00

Universitätsklinikum Erlangen, Hörsäle Medizin,
 Ulmenweg 18, 91054 Erlangen, Germany

Department of Molecular Neurology,
 Faculty of Engineering, Pattern Recognition Lab



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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 which makes it an important surrogate marker for disease severity and progress, but more importantly for therapeutic decisions and quality of life.

Modern sensor-based motion detection systems are developed that (I) assess motor function in numerous disorder throughout the course of the disease, (II) support therapeutic decision and (III) provide objective measurement for therapeutic efficacy in clinical studies.

The 3rd **Symposium on Automated Mobility Analysis in Erlangen** will focus on the current knowledge and applications of motion detection system in the clinic.

We kindly invite you to participate in our symposium at Universitätsklinikum Erlangen.



PD Dr. Jochen Klucken
Faculty of Medicine



Prof. Dr. Björn Eskofier
Faculty of Engineering

Program

13.00	Introduction and Welcome Prof. Dr. Dr. h. c. Joachim Heinzl, Prof. Dr. Dr. h. c. Jürgen Schüttler, Prof. Dr. Joachim Hornegger, Prof. Dr. Jürgen Winkler
13.45	Keynote Lecture
	Automated Motion Analysis in Parkinson Syndrome Dr. Shyamal Patel, Prof. Dr. Paolo Bonato
14.15	Assessing outcomes of deep brain stimulation in movement disorders Prof. Dr. Jens Volkmann
14.35	Gait Analysis in Parkinson Syndrome PD Dr. Jochen Klucken
14.55	Exercise and Frailty PD Dr. Ellen Freiberger, Prof. Dr. Cornel Sieber
15.10	Movement and Depression – the Effects of Sports on Neural Connectivity Prof. Dr. Norbert Thürauf, Prof. Dr. Johannes Kornhuber, Gerald Suttner
15.25	Coffee break
16.00	Assessing the risk of falling in geriatric patients Samuel Schüle, Prof. Dr. Karl Gaßmann
16.15	Chronic joint instability, fatigue and sensorimotor control Simon Steib, Prof. Dr. Klaus Pfeifer
16.30	Wearable systems for mobile movement analysis Dr. Lorenzo D'Angelo, Prof. Dr. Tim C. Lüth
16.50	Pattern recognition concepts for sensor-based movement analysis Prof. Dr. Björn Eskofier
17.10	Coffee break

Program

17.30	Scopes of automated motion analysis supporting telemedical care Chantal Peter
17.45	Sensor-based motion analysis: today and tomorrow Dipl.-Ing. Jens Barth
18.00	Technology-based exercise interventions in motor system disorders Dr. Alexander Tallner, Simon Steib, Prof. Dr. Klaus Pfeifer
18.15	Mobility in Multiple Sclerosis: diagnostic tool and therapeutic target PD Dr. Ralph Linker
18.30	Concluding remarks PD Dr. Jochen Klucken, Prof. Dr. Björn Eskofier

Participation of the symposium is certified with six CME points of the "Bayerische Landesärztekammer".



The symposium is supported by

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