

M³ Seminar 2018

Organizers:	Tamim Asfour (KIT Karlsruhe)
	Syn Schmitt (Uni Stuttgart)
	Daniel Häufle (University of Tübingen)
Guest speakers:	Alexander Spröwitz , Max Planck Institute for Intelligent Systems, Stuttgart/Tübingen
	Winfried Ilg , Computational Sensomotrics, University of Tübingen

Agenda

Download slides here: <https://hih-oc.neurologie.uni-tuebingen.de/s/o7jreEW8Tft8bYf>

Tuesday, 08.05.2018, Karlsruhe

Location	Adenauerring 2 (Gebäude 50.20), 76131 Karlsruhe	
Web site	http://h2t.anthropomatik.kit.edu/530.php	
Time	Speaker	Topic
10:00	Tamim Asfour	Start of the Seminar and Introduction
10:30	Tamim Asfour	Humanoid Robotics Research
13:00	Lunch	
14:00	Lab Tour and presentation of the project topics with „hands on“ examples	
16:30	Proposition of seminar projects and conclusion	

Wednesday, 09.05.2018, Stuttgart

Auditorium Location	Seminarraum, Allmandring 30, 70569 Stuttgart	Google Maps
	Footpath from S-Bahn station University	
Lab Location	Room 00.062, Nobelstraße 15, 70569 Stuttgart	Google Maps
Web site	Biomechanics and Biorobotics Group	
Time	Speaker	Topic
10:00	Syn Schmitt	Introduction to human motion research
11:00	Oleksandr Martynenko	Active human models for applications in ergonomics and safety
12:00	Alexander Spröwitz	Dynamic Locomotion (Guest speaker, MPI Stuttgart)
13:00	Lunch	
14:00	Simon Wolfen	Lab Visit
15:00	Fabian Neininger	Modelling and simulation of biomechanical systems
16:00	Proposition of seminar projects and conclusion	

Friday, 11.05.2018, Tübingen

Location	Otfried-Müller Str. 23, 72076 Tübingen, DZNE building, Seminar room on the main floor
Parking	If you come by car, there are parking spots at the side of the main road (Schnarrenbergstr.)

Web site	https://www.hih-tuebingen.de/mocom	
Time	Speaker	Topic
10:15	Daniel Häufle	Introduction (we will start a bit later considering train travel times)
10:30	Daniel Häufle	Role of biomechanics in movement control
11:30	Winfried Ilg	Neurodegenerative diseases and motor control
12:45	Lunch	
14:00	Oliver Rettig	Guest Speaker
15:15	Winfried Ilg	Lab Visit
16:00	Proposition of seminar projects and conclusion	

Modalities

Students are required to:

- participate in the three seminar days
- work in groups on one project for four weeks
- create a wiki project report with a podcast video **deadline: four weeks after beginning of the project**

Project proposals

Projects offered by KIT	Contact	Main Location
Human Motion Capturing		Karlsruhe
Motion Classification with Exoskeletons		Karlsruhe
Encoding Motions as Dynamical Movement Primitives		Karlsruhe
Analysis of human grasping movements		Karlsruhe
Empirical grasping analysis for prosthetic hands		Karlsruhe

Projects offered by Uni Stuttgart	Contact	Main location
Active Dummy: active muscle modelling with finite elements	Oleksandr Martynenko	U Stuttgart
Synthetic Psychology: motion control for robots	Fabian Neining	U Stuttgart
Ataro: arm-robot control	Simon Wolfen	U Stuttgart

Projects offered by Uni Tübingen	Contact	Main location
Neuronal control modeling: hopping	Daniel Häufle	U Tübingen
Musculo-Skeletal modeling: walking	Daniel Häufle	U Tübingen
Compass gait model and robot	Daniel Häufle	U Tübingen
Passive dynamic walker robot	Daniel Häufle	U Tübingen

If you are interested in one of our project topics, please contact the respective supervisor(s) to schedule a date!

M^3 Seminar [main page](#).

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