

M^3 Seminar 2020

Organizers:	Tamim Asfour (KIT Karlsruhe)
	Syn Schmitt (University of Stuttgart)
	Daniel Häufle (University of Tübingen)
Guest speakers:	Winfried Ilg , Computational Sensomotrics, University of Tübingen
	NN
	NN

Agenda

Wednesday, 05.05.2020, Karlsruhe

Location	Adenauerring 2 (Gebäude 50.20), 76131 Karlsruhe	
Web site	http://h2t.anthropomatik.kit.edu/530.php	
Time	Speaker	Topic
10:00	Isabel Patzer and Andre Meixner	Start of the Seminar and Introduction
10:15	Tamim Asfour	Humanoid Robotics Research
12:00	Lunch	
13:00	Lab Tour	
14:30	PhD Student 1	Talk about research
15:15	PhD Student 2	Talk about research
16:00	Isabel Patzer and Andre Meixner	Proposition of seminar projects and conclusion

Thursday, 07.05.2020, Stuttgart

Auditorium Location		Seminarraum, Allmandring 30, 70569 Stuttgart	Google Maps
		Footpath from S-Bahn station University	
Time	Speaker	Topic	
10:00	Syn Schmitt	Introduction to Computational Biophysics and Biorobotics m3_seminar_stuttgart_schmitt_2019.pdf	
10:30	NN	NN	
11:30	Isabell Wochner	Optimality Principles in Arm Movements m3seminar_isabell.pdf	
12:15	Simon Wolfen	Bioinspired pneumatic muscle spring units mimicking the human motion apparatus m2vip-praesi.pdf	
13:00	Lunch		
14:00	Lab Tour		
14:30	Syn Schmitt	Hands-On our seminar projects m3_projects_stuttgart.pdf	
16:00	Syn Schmitt	End of the seminar	

Friday, 10.05.2020, Tübingen

Location	Crona Klinik, Hoppe-Seyler-Straße 3, 72076 Tübingen, Room 220 in Crona, next to the library
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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
10:30	NN	Guest Speaker :
11:30	Winfried Ilg	Neurodegenerative diseases and motor control
12:45	Lunch	
14:00	Daniel Häufle	Role of biomechanics in movement control
15:30		Demo of Projects
16:00	Signup for projects, organization 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
tba		Karlsruhe

Projects offered by Uni Stuttgart	Contact	Main location
Movement simulation	Syn Schmitt	U Stuttgart
Muscle parameters	Syn Schmitt	U Stuttgart
EP-control on arm movements	Syn Schmitt	U Stuttgart
Braitenberg Vehicles	Syn Schmitt	U Stuttgart
Ataro Vision (?)	Syn Schmitt	U Stuttgart

Projects offered by Uni Tübingen	Contact	Main location
Soft robotics project	Daniel Häufle	U Tübingen
Control of a simple exoskeleton	Daniel Häufle	U Tübingen
Simulation of motor control	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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