

Winter School "Software-defined Mobility"

November 25th-29th 2024, Karlsruhe
Graduate school "UpGrade Mobility" (UGM) at KIT

TIME	MON	TUE	WED	THU	FRI	
Info		09:00 AM - 5:00 PM @TRIANGEL Studio	12:00 PM - 5:00 PM @KIT-ITIV (Room 339)	09:00 AM - 2:00 PM @TRIANGEL Studio		
8:30 AM		Meet @TRIANGEL Studio		Meet @TRIANGEL Studio		
9:00 AM		Welcome and Agenda Housseim Guissouma (KIT)	Meet @KIT Campus Süd	Presentation Session IV		
9:30 AM		Introduction round	LAB-Tour of KIT facilities @Institutes: IFAB, FAST			Meet @City Center
10:00 AM	Arrival and check-in @Hotel Berliner Hof (check-in possible from 02:00 PM)	Coffee Break			Coffee Break	Guided Tour of Karlsruhe
10:30 AM		Coaching Eva-Maria Knoch (KIT)			Workshop "How will software-defined mobility change our lives?" Part II	
11:00 AM		Welcome Prof. Eric Sax (KIT)	Meet @KIT-ITIV (Room 339)			
11:30 AM		Lunch (Catering Buffet)	Lunch (Catering Buffet)	Lunch (Catering Buffet)	Lunch @Vogelbräu Karlsruhe	
12:00 PM						
12:30 PM						
1:00 PM			Presentation Session I	Presentation Session II	Panel Discussion about the results of the workshop with Prof. Sax	Conclusion and Farewell @Hotel Berliner Hof
1:30 PM						
2:00 PM			Coffee Break	Prof. Abel Chuang (UC MERCED, invited speaker)	Walk through the Christmas Market to Tulla Lecture Hall	
2:30 PM			CONVIDE DFG project, Vitus Lüntzel (KIT, invited)	Coffee Break		
3:00 PM		Workshop "How will software-defined mobility change our lives?" Part I	Presentation Session III	Carl Benz Lecture @Tulla Lecture Hall		
3:30 PM						
4:00 PM						
4:30 PM						
5:00 PM						
5:30 PM						
6:00 PM	Weclome UGM Management @Hotel lounge			Networking Event @Tulla Lecture Hall		
6:30 PM						
7:00 PM		Dinner with invited KIT professors @Hoepfner Burghof				
7:30 PM						
8:00 PM						

Info	Presentations	Workshop	Social/Cultural Event	Break/Lunch	Misc
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Please find the details of the presentation sessions in the next page.

Content of the Presentation Sessions

Presentation Session I - Tuesday 1:00 PM - 2:30 PM

Time	Title	Speaker
1:00 PM	Fast Planning and Safe Tracking – Ensuring the Safety of Automated Vehicles	Christopher Bohn (KIT, DE)
1:30 PM	V2X-based vehicle control development under unreliable network conditions (Focusing safety risk)	Roland Nagy (BME, HUN)
2:00 PM	Designing Communication for Self-Driving Cars in Urban Traffic	Yang Li (KIT, DE)

Presentation Session II - Wednesday 1:00 PM - 2:30 PM

Time	Title	Speaker
1:00 PM	The development of automotive power distribution systems for the new generation of electrical consumers	Emil Nagy (BME, HUN)
1:30 PM	An Urban-Space Odyssey: Shifting from the Housing Problem to Mobility Management	Federico Campanini (University of Genova, ITA)
2:00 PM	Electrochemical characterization of Polymer Electrolyte Membrane Fuel Cells	Sebastian Raab (KIT, DE)

Presentation Session III - Wednesday 3:30 PM - 5:00 PM

Time	Title	Speaker
3:30 PM	Analyzing safety of V2X-based vehicle functions	Tamás Márton Kazár (BME, HUN)
4:00 PM	Investigation of the assignment of validation configurations to test cases using the example overall system validation of automated vehicles	David Fischer (KIT, DE)
4:30 PM	Formation Control of highly automated mobile robots	Lars Fischer (KIT, DE)

Presentation Session IV - Thursday 09:00 AM - 09:30 AM

Time	Title	Speaker
9:00 AM	Software-Defined Mobility - Is Software up to the Task?	Moritz Laupichler (KIT, DE)
9:30 AM	Niobium Pentoxide as High-power Lithium-ion Anode Material	Xilai Xue (KIT, DE)