

PHD Days at VIRTUAL VEHICLE

16-17 September 2021
Online Event - MS Teams

PROGRAM (as of 8 September 2021)

Structure for PhD talks:	Short introduction university/institute (Prof.)	5 min
	PhD thesis (PhD student)	20 min
	Discussion	5 min

Structure for ViF talks:	Project and partner 'ecosystem' (project manager)	10 min
	PhD thesis in project (PhD student)	15 min
	Discussion	5 min

Thu, 16 Sept 2021

Time	Topics	Presenters
9:00 am - 9:30 am	Welcome and introduction into PhD Days at ViF	Dr. Jost Bernasch, Dr. Anton Fuchs (ViF)
9:30 am - 10:00 am	Adaptive multi-sensor fusion for automated driving	Prof. Daniel Watzenig and Jasmina Zubača (Graz University of Technology, AT), PhD cooperation
10:00 am - 10:30 am	Reliability for platooning	Prof. Daniel Watzenig and Tobias Renzler (Graz University of Technology, AT), PhD cooperation
10:30 am - 11:00 am	Agile Development of Software-Defined Systems	Stefan Reiterer and Markus Benedikt, ViF talk
11:00 am - 11:15 am	Break	
11:15 am - 11:45 am	Uncertainty Propagation through the Nonlinear Systems with the Focus in the Autonomous Driving	Prof. Adnan Tahirovic and Kenan Ahmić (ISH Sarajevo, BiH / Graz University of Technology, AT), PhD cooperation
11:45 am - 12:15 pm	A Novel Control Framework based on Sliding Mode Control/Model Predictive Control	Prof. Adnan Tahirovic and Anel Tahirbegović (ISH Sarajevo, BiH / Graz University of Technology, AT), PhD cooperation
12:15 pm - 1:15 pm	Break	
1:15 pm - 1:45 pm	Fatigue Crack Growth Modeling of Severely Deformed Pearlitic Wheel-Rail Steels	Dr. Klaus Six and Hamed Davoodi, ViF talk
1:45 pm - 2:15 pm	Experimental Investigations regarding the Influence of Microstructural Properties on the Tribological Behaviour of Wheel-Rail Materials	Prof. Roger Lewis and James Ayabina (University of Sheffield, UK), PhD cooperation
2:15 pm - 2:45 pm	Human-centered design safe/reliable interior for AD	Prof. Sofija Sidorenko and Elena Angeleka (Ss. Cyril and Methodius University in Skopje, NMK), PhD cooperation
2:45 pm - 3:15 pm	Camera-based full environment AD	Prof. Mile Stankovski and Stefan Zlatinov (Ss. Cyril and Methodius University in Skopje, NMK), PhD cooperation
3:15 pm - 3:30 pm	Break	
3:30 pm - 4:00 pm	Multiphysics Modelling of Batteries	Dr. Christoph Breituß, Patrick Kolm and Philip Kargl, ViF talk
4:00 pm - 4:30 pm	Meta Materials for mobility applications	Prof. Domenico Mundo and Walter Bova (University of Calabria, IT), PhD cooperation
4:30 pm - 5:00 pm	Optimal Experimental Design for Large-Scale Inverse Problems Using PDE-Constrained Optimization	Prof. Stefan Volkwein and Andrea Petrocchi (University Konstanz, DE), PhD cooperation
5:00 pm - 5:30 pm	Planning in Urban Driving Environments	Prof. Mykel Kochenderfer and Arec Jamgochian (Stanford University, USA), PhD cooperation
5:30 pm - 6:00 pm	Summary and Closing of Day 1	Dr. Anton Fuchs (ViF)

Fri, 17 Sept 2021

Time	Topics	Presenters
9:00 am - 9:15 am	Introduction Day 2	Dr. Anton Fuchs (ViF)
9:15 am - 9:45 am	Reliable Perception and High-Fidelity Radar Model	Dr. Georg Stettinger and Michael Maier (Graz University of Technology, AT), ViF talk
9:45 am - 10:15 am	Evaluation of Train Driving with Lineside ATP and ERTMS Signaling	Dr. Birgitta Thorslund and Tomas Rosberg (vti/KTH, SWE), PhD cooperation
10:15 am - 10:45 am	Concept Development to Support Industrial Processes Based on Serious Gaming	Prof. Peter Slepcevic-Zach and David Luidold (University of Graz, AT), PhD cooperation
10:45 am - 11:00 am	Break	
11:00 am - 11:30 am	Influence of Scenario-Based Variation Parameters on the Effect of ADAS for Accident Prevention	Dr. Jörg Moser and Fengwei Guo (Graz University of Technology, AT), PhD cooperation
11:30 am - 12:00 pm	Safe, Acceptable and Trustworthy Driver-Vehicle Interaction	Dr. Paolo Pretto and Norah Neuhuber, ViF Talk
12:00 pm - 12:15 pm	Outlook: Modeling and Simulation for the next Generation Li-Ion Cells	Prof. Alberto Salvadori (Brescia University, IT), PhD cooperation
12:15 pm - 12:45 pm	Summary of PhD Days 2021	Dr. Anton Fuchs (ViF)