

2nd IAVSD Workshop
on Dynamics of Road Vehicle
March 29th – 31st 2017



Wednesday – 29.03.2017		
12:00	Lunch	
13:00	Welcome / Introduction	
Trajectories, Planning		
13:15	Model Predictive Control for Autonomous Lateral Vehicle Guidance	Jochen Gallep (TU Berlin)
13:45	Towards Comfort-Optimal Trajectory Planning and Control	Marlies Mischinger (Virtual Vehicle)
14:15	A Path Planning and Path Following Controller for Vehicles	Qiannan Wang (TU Berlin)
14:45	Coffee Break	
15:15	Discussion in 3 groups	
16:15	Summary / Résumé	
16:45	End of 1 st Day	
	Dinner in Hotel	

Thursday – 30.03.2017		
08:30	Welcome	
Autonomous Driving / Control at the Limits, if the Situation Enforces it		
08:45	Formulation and Interpretation of Optimal Braking Patterns in Autonomous Lane-Keeping Maneuvers	Victor Fors (Linköpings Universitet)
09:15	Autonomous Emergency Cornering: Lane Departure Prevention for Highway Vehicles	Yangyan Gao (University of Lincoln)
09:45	A combined Obstacle, Tire and Chassis Model for Vehicle Longitudinal Motion Control at Low Speeds	Fabian Walz (Daimler AG)
10:15	Coffee Break	
10:45	Discussion in 3 groups	
11:15	Summary / Résumé	
12:00	Lunch	
Friction Potential Estimation		
13:00	Road Condition Estimation for automated driving Considering Drivers' Acceptance	Cornelia Lex (TU Graz)
13:30	Experimental analysis of a contact patch form of a rolling tire: influence of speed, wheel load, camber and slip angle	Pavel Sarkisov (TU Dresden)
14:00	Using car2x data for friction potential prediction	Thorsten Lajewski (Daimler AG)
14:30	Methods and Results of Project Friction Estimation at TUB	Gerd Müller (TU Berlin)
15:00	Coffee Break	
15:30	Discussion in 3 groups	
16:30	Summary / Résumé	
17:00	End of 2 nd Day	
	Dinner in Hotel	

Friday – 31.03.2017		
08:30	Welcome	
Platooning as example for cooperative control		
08:45	Motorway Sharing between automated single Passenger Cars and larger Truck Platoons	Werner Schiehlen (Universität Stuttgart)
09:15	Discussion	
09:45	Coffee Break	
10:15	Summary / Conclusion	
11:45	Farewell	
	End of the Workshop	
12:15	Lunch	