

Driver-Car Interaction and Safety Conference 2018

Conference program

9:00 – 9:15	Welcome speech	Alina Mashko, Petr Bouchner (FTS, CTU in Prague)
9:15 – 9:45	Invited speech 1: Guardian angels	Leon J. M. Rothkrantz (Delft University of Technology)
9:45 – 10:45	Section 1: Urban Environment. Section Chair Alina Mashko	
9:45 – 10:00	E-Bus ultra-fast charging system – EKOVA Electric in Ostrava	Jan Plomer (EKOVA Electric / PLOMER Engineering)
10:00 – 10:15	Safety of autonomous vehicles: crash test results	Josef Mik (FTS, CTU in Prague)
10:15 – 10:30	Transport organization in city of Žilina	Jan Paluch (University of Žilina)
10:30 – 10:45	Coexistence of human communities and technical facilities	Dana Prochazkova (FS, CTU in Prague)
10:45 – 11:05	Coffee break	
11:05 – 12:05	Section 2: Human factors or driver vigilance. Section Chair Petr Bouchner	
11:05 – 11:20	Deep neural network for fatigue detection in EEG recording	Martin Růžek (CIIRK, CTU in Prague)
11:20 – 11:35	Analysis of EEG signal for detection of subject state	Nada Tylova (VSCHT, Prague)
11:35 – 11:50	Music effect on long-term driving	Zaid Mahmoud (FTS, CTU in Prague)
11:50 – 12:05	Objective measures for loss of driver vigilance	Alina Mashko (FTS, CTU in Prague)
12:05 – 13:15	Lunch	
13:15 – 14:40	Section 3: Driver support and assistance. Section Chair Raissa Likhonina	
13:15 – 13:30	Support of drivers with medical complications while driving a car	Jan Novotny (Skoda Auto/CIIRC, CTU in Prague)
13:30 – 13:50	Invited speech 2: Risks in transportation systems	Mirko Novák (CTU in Prague)
13:50 – 14:05	Application of quality methods for the modification of driver assistance systems	Přemysl Toman (FTS, CTU in Prague)
14:05 – 14:40	Speech based interfaces in the car. Voice based applications in the car.	Leon J. M. Rothkrantz (Delft University of Technology)
14:40 – 15:00	Coffee break	
15:00 – 16:15	Section 4: Driving simulation and vehicle safety. Section Chair Josef Mík	
15:00 – 15:15	Hand gesture recognition: noise cancellation based approach using QRD RLS algorithm (pre-processing stage)	Raissa Likhonina (Czech Academy of Sciences)
15:15 – 15:30	The use of virtual reality in driving simulators with a motion platform	Evžen Thöndel (FEL/Pragolet)
15:30 – 15:45	Scenes for interactive simulations based on 3D photogrammetry	Adam Orlický (FTS, CTU in Prague)
15:45 – 16:00	Evaluation of Electric vehicle performance and HMI on the interactive vehicle simulator	Dmitry Rozhdestvenskiy (FTS, CTU in Prague)
16:00 – 16:15	Subjective assessment of driver attention affected by billboards	Uddipta Sengupta (FTS, CTU in Prague)
16:15 – 16:30	Coffee break	
16:30 – 17:30	Section 5: Electronic poster session.	