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4th German Workshop on Rail Human Factors







Welcome!

- Katharina Seifert (German Aerospace Center)
- Birgit Milius (TU Berlin)
- Anja Naumann (German Aerospace Center)









Rules & Regulations

- Three presentations and then a Q&A: Write your questions in the chat and please add to whom it is directed.
- Breaks with structured discussions after session I and session III in breakout rooms
- Lunchbreak is scheduled
- Feedback questionnaire will be sent separately
- Please mute your microphone and deactivate your camera, unless you are saying something then both should/can be activated









Session I: Automation/ Train Control Systems

Automation/ Train Control Systems Chair: Anja Naumann (German Aerospace Center)

- 09:10 A prototype to develop and evaluate remote control workplaces for future automated railway operation Niels Brandenburger, Anja Naumann (German Aerospace Center)
- 09:30 Creating driver-vehicle collaboration in autonomous environments: Siemens Autonomous Tram Sabine Berghaus, Philipp Quaet-Faslem, Kristian Weiss

Sabine Berghaus, Philipp Quaet-Faslem, Kristian Weiss (Siemens Mobility/Siemens AG)

09:50 Remote driving options as a fallback system for automated trains

Baris Cogan, Birgit Milius, Heiko Herholz (TU Berlin)

10:10 **Questions & Answers**









Interactive Session I

- Driverless driving in car or train is a hot topic, discussed often especially in the media.
 - What is your view of it. When will we have driverless trains in regular mainline rail traffic?
 - What are the main driving factors?
 - What are the main obstacles?











Ergonomics and Usability of advisory and assistance systems

10:55	Reducing Monotony in Rail Signaling by Seconda- ry Tasks with Various Levels of Difficulty – An Experimental Study
	Jonas Brüngger, Mario Niederhauser, Michaela Wirth, Josua Peter, Tanja Huber (University of Applied Sciences Northwestern Switzerland)
11:15	Use of modern communication devices in the train driver's cab – risks and design options
	Nicole Stoller, Giulio Nisoli, Jonas Brüngger, Stefan Wahrstätter, Melisa Dittrich, Karin Hostettler, Katrin Fischer (University of Applied Sciences Northwestern Switzerland)
11:35	The development of a joint cognitive system of train driver and ATO GoA2 at Netherlands Railways
	Inge van Kooten-Satter, Vera Verstappen, Stan Albers, Lammert Visser, Ellen Dircks (Netherlands Railays)
11:55	Questions & Answers









Lunch break





Session III





Human Factors Integration/ Rules and Standards I

12:45	Is a train coming? – Effects of two low-cost safety measures on road user behavior at a passive level crossing
	Annika Dreßler, Joana Illgen, Jan Daniel Grippenkoven (German Aerospace Center)
13:05	Developing trainings to improve cognitive skills of technical operator in the railway domain
	Stefan Wahrstätter, Jonas Brüngger, Nicole Stoller, Giulio Nisoli, Karin Hostettler, Katrin Fischer (University of Applied Sciences and Arts Northwestern Switzerland)
13:25	Integration of UX into CENELEC 50128 based processes
	Marc Burkhardt (Siemens Mobility GmbH)
13:45	Questions & Answers









Interactive Session II

- As we automate more and more functions in the train and in railway operations, we need to adapt the training of personnel.
 - How do requirements and needs for personnel change?
 - What will be our biggest challenges in getting people trained? Which approaches will work?









Session IV

Human Factors Integration/ Rules and Standards II

14:30 Good Rules

Giulio Nisoli, Nicole Stoller, Stefan Wahrstätter, Karin Hostettler, Katrin Fischer (University of Applied Sciences Northwestern Switzerland)

- 14:50 ERA Safety Culture Programme Bart Accou (European Union Agency for Railways)
- 15:10 What role for the EU regulator as regards Human and Organisational Factors (HOF) in railway automation? Jayne Yeo (European Union Agency for Railways)
- 15:30 Questions & Answers









Farewell!

