Registration
Registration at www.rhf-germany.de.

Workshop fee
The registration is free of charge.

Further Information
The conference language will be English.
We will be using Zoom for the online meeting.

Introduction
In a time, where digitalisation and automatization is on everyone’s mind, it becomes even more urgent to keep the human in the loop. Requirements and tasks are changing and impose new challenges on the workforce. These need to be addressed. Rail human factors deals with the question how to incorporate the human in today’s railway system as well as the system of the future.

The fourth German workshop on Rail Human Factors will offer an opportunity to meet with national and international experts in the fields of railway research and human factors.

The workshop consists of presentations and lots of time for discussions.

Organizing Committee
Prof. Dr. Birgit Milius (TU Berlin)
Dr. Anja Naumann (German Aerospace Center)

Program Committee
Prof. Dr. Martin Baumannn (Universität Ulm)
Dipl.-Inf. Marc Burkhardt (Siemens Mobility GmbH)
Prof. Dr. Dietrich Manzey (TU Berlin)
Prof. Dr. Ullrich Martin (Universität Stuttgart)
Prof. Dr. Birgit Milius (TU Berlin)
Dr. Anja Naumann (German Aerospace Center)
Prof. Dr. Jörn Pachl (TU Braunschweig)
Prof. Dr. Katharina Seifert (German Aerospace Center)
Wednesday, December 2nd, 2020

08:45  Dial-in
09:00  Welcome note
  Katharina Seifert (German Aerospace Center)
  Birgit Milius (TU Berlin)
  Anja Naumann (German Aerospace Center)

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 (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
10:25  Coffee break + Discussion I

Ergonomics and Usability of advisory and assistance systems
Chair: Birgit Milius (TU Berlin)

10:55  Reducing Monotony in Rail Signaling by Secondary 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, Melissa 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 Railways)

11:55  Questions & Answers

12:10  Lunch break

Human Factors Integration/Rules and Standards I
Chair: Anja Naumann (German Aerospace Center)

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
14:00  Coffee break + Discussion II

Human Factors Integration/Rules and Standards II
Chair: Birgit Milius (TU Berlin)

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
15:45  Conclusion and Farewell
  Anja Naumann (German Aerospace Center)
  Birgit Milius (TU Berlin)

16:00  End of Workshop

Agenda is subject to change