

## Registration

Registration at [www.rhf-germany.de](http://www.rhf-germany.de).

## Workshop fee

The workshop is free of charge.

## Further Information

The conference language will be English.

It will be streamed via Zoom.

## Introduction

In a time, where digitalization 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 fifth 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.

## Organizing Committee

Dipl.-Inf. Marc Burkhardt (Siemens Mobility GmbH)

Prof. Dr. Birgit Milius (TU Berlin)

Dr. Anja Naumann (German Aerospace Center)



# 5<sup>th</sup> German Workshop on Rail Human Factors

## 9 November 2022

*Online with Zoom*

[www.rhf-germany.de](http://www.rhf-germany.de)

organized by:

**bbi**   
Bahnbetrieb & Infrastruktur  
Eisenbahn-Betriebs- & Experimentierfeld



DLR

Deutsches Zentrum  
für Luft- und Raumfahrt  
German Aerospace Center

AGENDA

## Wednesday, 9 November 2022

08:45 **Dial-in**

09:00 **Welcome note**

*Birgit Milius (TU Berlin)*

*Anja Naumann (German Aerospace Center)*

### Automatic Train Operation

*Chair: Anja Naumann (German Aerospace Center)*

09:10 **Implementation of a Remote Control Workplace to Realize Remote Train Control over 5G-Network in Real-World Testing**

*Niels Brandenburger, Friedrich Maximilian Strauß, Igor Bier (German Aerospace Center)*

09:35 **Train Drivers' Reaction Times to a Visual Detection Task as Benchmark for ATO Systems**

*Esther Bosch, Anne Goralzik, Birte Thomas-Friedrich (German Aerospace Center)*

### Human Factors Integration

*Chair: Anja Naumann (German Aerospace Center)*

10:00 **Human Factors at Network Rail: Looking Backwards into the Future**

*Richard Bye (Network Rail)*

10:25 **Why do we need more User Experience (UX) in our development?**

*Marc Burkhardt (Siemens Mobility GmbH)*

10:50 **Coffee break**

## Usability and Ergonomics of Interfaces

*Chair: Birgit Milius (TU Berlin)*

11:10 **Bar display or numeric display – which punctuality display makes more sense for train drivers?**

*Nicole Stoller, Stefan Wahrstätter, Jonas Brüngger, Katrin Fischer (University of Applied Sciences and Arts Northwestern Switzerland)*

11:35 **Evaluation of Human-Machine-Interfaces for Rail Signalers**

*Birte Thomas-Friedrich & Anja Naumann (German Aerospace Center)*

### Safety Culture

*Chair: Birgit Milius (TU Berlin)*

12:00 **Paving the way for reinforcing safety culture**

*Kristin Mühl, Philipp Rollin, Zaki Kebdani (German Centre for Rail Traffic Research (DZSF))*

12:25 **DB Regio's Safety Management System @ half way point**

*Ole Kroczeck (DB Regio AG)*

12:50 **Conclusion and Farewell**

*Anja Naumann (German Aerospace Center)  
Birgit Milius (TU Berlin)*

13:00 **End of Workshop**

*Agenda is subject to change*