Agenda des Blockseminars
Embedded Real-Time Systems

10. Februar 2024

Zeit	Thema
8:55	*Begrüßung*
9:00	Nutzung von Fuzzy-Variables zur optimierten Lösung des Train Timetable Problems
9:35	Developing a Model for Integrated Train Timetabling and Rolling Stock Scheduling
10:10	Security Requirements Engineering in Safety-Critical Railway Signalling Networks
10:45	*Pause*
11:00	Assessment of Cyber Security Attack Vectors on ERTMS-based Railway Systems
11:25	Railway Forensic in Times of Industry 4.0
11:50	Monitoring Large Railways Infrastructures Using Hybrid Oprical Fibers Sensor Systems
12:15	An Overview of Wireless Technology Applications in the Railway Industry
12:40	*Mittagspause*

Zeit	Thema
13:40	Optimized Algorithms for Efficiency in Non-Disturbed and Disturbed Scenarios with the CBTC Signalling System
14:05	Train-Centric Communication Based Autonomous Train Control System
14:30	Enhancing Autonomous Train Safety Through A Priori-Map Based Perception
14:55	Ergänzung des Bordeigenen Systems durch Unbemannte Luftfahrzeuge für eine Autonome Hinderniserkennung im Schienenverkehr
15:20	*Pause*
15:35	Validate Formal Models with Acceptance Tests
16:00	A Modular Model to Schedule Predictive Railway Maintenance
16:25	A Petri Net Model for Analysis, Optimisation, and Control of Railway Networks and Train Schedules
16:50	Extraction and Analysis of a Railway Skeleton Network from OpenStreetMap
17:15	*Schlusswort*