

SFB/TRR 339: Digital Twin of the Road System and Collaborative Sensor Data Fusion



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The Chair of Computer Science 11 is part of the new Collaborative Research Center / Transregio (SFB/TRR) 339 of the German Research Foundation (DFG). The Collaborative Research Project investigates the “Road of the Future” and is named: »Digital Twin of the Road System - Physical-Informational Representation of Future Road System«.

Research groups from TU Dresden and RWTH Aachen University are researching in a collaboration of civil engineering, computer science and mechanical engineering. The goal of the research area is the creation and exploration of a digital twin of the road system and thus laying the foundation for the analysis and optimization of the future road system. The main focus of this research is the intelligent, gentle and sustainable use of the road infrastructure.

Our task as the Chair of Embedded Software is primarily a sensor data fusion that combines data from different sources. We particularly focus on the inclusion of data from a sensitive road surface layer.

The proposal was submitted by [Prof. Kowalewski](#) (chair holder) and [Dr. Alrifae](#) (head of the Cyber-Physical Mobility Group). At the chair the research assistant [Mr. Schäfer](#) (member of the Cyber-Physical Mobility Group) is working on the project.

More information about the Cyber-Physical Mobility Group: [CPM Group](#)
More Information about the project: [Project Website](#)

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