Simon Schäfer, M.Sc. RWTH

Member of the Cyber-physical Mobility Group

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About

I am a member of the Cyber-physical Mobility Group. Within the SFB / TRR 339 I am researching on cooperative sensor data fusion for the automotive area.

Research

I am doing research on cooperative sensor data fusion in the context of the digital twin of the road system. The project focuses on data obtained from a sensitive road surface layer. The project includes a simulation, a test setup in the CPM Lab and testing on the real road in Dresden.

Theses

If you are interested in a bachelor or master thesis, please contact me via email. Your own suggestions for topics are also possible.

HiWi/WiHi Jobs

Current job offers can be found here. Unsolicited applications are also welcome. Your application

should include an overview of your grades and a short curriculum vitae.

Current Positions in my Project
We currently have no open positions in this project.

Publikationen

[SSK+23]
PDFBIB

Schäfer, S., Steidl, H., Kowalewski, S., and Alrifaee, B., "Investigating a Pressure Sensitive Surface Layer for Vehicle Localization", in *Proc. IEEE IV 2023 : IEEE Intelligent Vehicles Symposium : Anchorage, Alaska, USA, June 4-7, 2023 / sponsors and organizers: IEEE, IEEE Intelligent Transportation Systems Society*, Piscataway, NJ, 2023, IEEE, p. 6.

Investigating a Pressure Sensitive Surface Layer for Vehicle Localization

Bibtex entry :

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@inproceedings {  SSK+23,
    author = { Sch{\"a}fer, Simon and Steidl, Hendrik and Kowalewski,
        Stefan and Alrifaee, Bassam },
    title = { Investigating a Pressure Sensitive Surface Layer for
Vehicle
        Localization },
    booktitle = { IEEE IV 2023 : IEEE Intelligent Vehicles Symposium :
        Anchorage, Alaska, USA, June 4-7, 2023 / sponsors and
        organizers: IEEE, IEEE Intelligent Transportation Systems
        Society },
    publisher = { IEEE },
    pages = { 6 Seiten },
    year = { 2023 },
    address = { Piscataway, NJ },
    organization = { 34. IEEE Intelligent Vehicles Symposium,
Anchorage, AK
        (USA), 2023-06-04 - 2023-06-07 },
    doi = { 10.1109/IV55152.2023.10186582 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2023-07808 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/963410/files/963410.pdf },
    i11key = { DFG project 453596084 - TRR 339: Digitaler Zwilling
        Stra{\ss}e – Physikalisch-informatorische Abbildung des
        Systems „Stra{\ss}e der Zukunft“ (453596084) },
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}
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[MSA22]
PDFBIB

Mokhtarian, A., Schäfer, S., and Alrifaee, B., "CPM Olympics: Development of Scenarios for Benchmarking in Networked and Autonomous Driving", in *Proc. 2022 IEEE Intelligent Vehicles Symposium (IV) : 4-9 June 2022 / publisher: IEEE*, Piscataway, NJ, 2022, IEEE, pp. 9-15.

CPM Olympics: Development of Scenarios for Benchmarking in Networked and Autonomous Driving

Bibtex entry :

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@inproceedings {  MSA22,
    author = { Mokhtarian, Armin and Sch{\"a}fer, Simon and Alrifaee,
        Bassam },
    title = { CPM Olympics: Development of Scenarios for Benchmarking
in
        Networked and Autonomous Driving },
    booktitle = { 2022 IEEE Intelligent Vehicles Symposium (IV) : 4-9
June
        2022 / publisher: IEEE },
    publisher = { IEEE },
    pages = { 9-15 },
    year = { 2022 },
    address = { Piscataway, NJ },
    organization = { 33. IEEE Intelligent Vehicles Symposium, Aachen
(Germany),
        2022-06-04 - 2022-06-09 },
    doi = { 10.1109/IV51971.2022.9827299 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2022-08486 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/852943/files/852943.pdf },
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