

Maximilian Kloock, M.Sc. RWTH

Member of the [Cyber-physical Mobility Group](#)

Kontakt

Wissenschaftlicher Mitarbeiter



Tel. +49 241 80 21186

Fax +49 241 80 22150

Email: [kloock\[at\]embedded\[dot\]rwth-aachen\[dot\]de](mailto:kloock[at]embedded[dot]rwth-aachen[dot]de)

Adresse: Ahornstr. 55, 52074 Aachen, Germany

Büro: 2224

Forschung

Meine Forschung im Bereich [Cyber-physical Mobility](#) befindet sich in der interdisziplinären Schnittmenge von Software-Engineering, Regelungstechnik, mathematischer Optimierung und Kommunikationstechnik. Derzeit bearbeite ich das Projekt [AutoKnigge](#), sowie den Aufbau des [Cyber-physical Mobility Labors](#).

Abschlussarbeiten

Im Rahmen meiner Forschungstätigkeit ergeben sich kontinuierlich Themen für Abschlussarbeiten. Bei Interesse bitte ich um Kontaktaufnahme per E-Mail oder persönlich bei mir im Büro. Eigene Vorschläge sind ebenfalls möglich.

Offene Hiwistellen

Aktuelle Stellenausschreibungen können [hier](#) gefunden werden. Initiativbewerbungen sind ebenfalls

willkommen. Bewerbungen sollen folgende Unterlagen beinhalten: Notenspiegel, kurzer Lebenslauf und Zeugnisse.

Publikationen

[KKM+19]

[PDFBIB](#)

Kloock, M., Kragl, L., Maczijewski, J., Alrifaae, B., and Kowalewski, S., "Distributed Model Predictive Pose Control of Multiple Nonholonomic Vehicles", in *Proc. IV19 : 30th IEEE Intelligent Vehicles Symposium : 9-12 June 2019, Paris / publisher: IEEE*, [Piscataway, New Jersey], 2019, IEEE, pp. 1620-1625.

Distributed Model Predictive Pose Control of Multiple Nonholonomic Vehicles

Bibtex entry :

```
@inproceedings { KKM+19,  
  author = { Kloock, Maximilian and Kragl, Ludwig and Maczijewski,  
    Janis  
      and Alrifaae, Bassam and Kowalewski, Stefan },  
  title = { Distributed Model Predictive Pose Control of Multiple  
    Nonholonomic Vehicles },  
  booktitle = { IV19 : 30th IEEE Intelligent Vehicles Symposium :  
    9-12 June  
      2019, Paris / publisher: IEEE },  
  publisher = { IEEE },  
  pages = { 1620-1625 },  
  year = { 2019 },  
  address = { [Piscataway, New Jersey] },  
  organization = { 2019 IEEE Intelligent Vehicles Symposium (IV),  
    Paris  
      (France), 2019-06-09 - 2019-06-12 },  
  doi = { 10.1109/IVS.2019.8813980 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2019-08197 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/766610 },  
}
```

[KSB+19]

[PDFBIB](#)

Kloock, M. M., Scheffe, P., Botz, L., Maczijewski, J., Alrifaae, B., and Kowalewski, S., "Networked Model Predictive Vehicle Race Control", in *Proc. The 2019 IEEE Intelligent Transportation Systems Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society*, Piscataway, NJ, 2019, IEEE, pp.

1552-1557.

Networked Model Predictive Vehicle Race Control

Bibtex entry :

```
@inproceedings { KSB+19,
  author = { Kloock, Maximilian Martin and Scheffe, Patrick and Botz,
    Lukas and Maczijewski, Janis and Alrifaae, Bassam and
    Kowalewski, Stefan },
  title = { Networked Model Predictive Vehicle Race Control },
  booktitle = { The 2019 IEEE Intelligent Transportation Systems
  Conference
    - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE,
    IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation
    Systems Society },
  publisher = { IEEE },
  pages = { 1552-1557 },
  year = { 2019 },
  address = { Piscataway, NJ },
  organization = { 22nd IEEE Intelligent Transportation Systems
  Conference,
    Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
  doi = { 10.1109/ITSC.2019.8917222 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2019-11241 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/773727 },
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```

[KSM+19]

[PDFBIB](#)

Kloock, M. M., Scheffe, P., Marquardt, S., Maczijewski, J., Alrifaae, B., and Kowalewski, S., "Distributed Model Predictive Intersection Control of Multiple Vehicles", in *Proc. The 2019 IEEE Intelligent Transportation Systems Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society, Piscataway, NJ, 2019, IEEE, p. 8917117, 1735-1740.*

Distributed Model Predictive Intersection Control of Multiple Vehicles

Bibtex entry :

```
@inproceedings { KSM+19,
  author = { Kloock, Maximilian Martin and Scheffe, Patrick and
    Marquardt, Sascha and Maczijewski, Janis and Alrifaae,
    Bassam and Kowalewski, Stefan },
  title = { Distributed Model Predictive Intersection Control of
    Multiple Vehicles },
  booktitle = { The 2019 IEEE Intelligent Transportation Systems
```

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Conference
- ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE,
  IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation
  Systems Society },
publisher = { IEEE },
pages = { 8917117, 1735-1740 },
year = { 2019 },
address = { Piscataway, NJ },
organization = { 22nd IEEE Intelligent Transportation Systems
Conference,
  Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
doi = { 10.1109/ITSC.2019.8917117 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2019-11242 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/773728 },
}
```

[VKR+19]

PDFBIB

Völker, M., Kloock, M., Rabanus, L., Alrifaae, B., and Kowalewski, S., "Verification of Cooperative Vehicle Behavior using Temporal Logic", *IFAC-PapersOnLine*, vol. 52, iss. 8, pp. 99-104, 2019

Verification of Cooperative Vehicle Behavior using Temporal Logic

Bibtex entry :

```
@article { VKR+19,
  author = { V{"o"}lker, Marcus and Kloock, Maximilian and Rabanus,
  Leon
    and Alrifaae, Bassam and Kowalewski, Stefan },
  title = { Verification of Cooperative Vehicle Behavior using
  Temporal
    Logic },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  pages = { 99-104 },
  volume = { 52 },
  number = { 8 },
  year = { 2019 },
  address = { Frankfurt ; M{"u"}nchen [u.a.] },
  issn = { 2405-8963 },
  organization = { 10th IFAC Symposium on Intelligent Autonomous
  Vehicles,
    Gdansk (Poland), 2019-07-03 - 2019-07-05 },
  doi = { 10.1016/j.ifacol.2019.08.055 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2019-08318 },
  cin = { 122810 / 120000 },
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url = { http://publications.rwth-aachen.de/record/766778 },  
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