

Alexandru Kampmann, M.Sc. RWTH

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Research Associate / PhD Candidate



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Research

As a member of the [Cyber-physical Mobility Group](#) I am researching automotive-grade service-oriented software architectures in the context of the [UNICARagil](#) project.

Bachelor/Master Thesis

If you are interested in a Bachelor's or Master's thesis, please contact me by e-mail. Your own suggestions are also possible.

Open HiWi/WiHi Positions

Current vacancies can be found [here](#). Unsolicited applications are also welcome. Applications should include a grade overview and a short CV.

Patents

- [Methods and systems for opening of a vehicle access point using audio or video data associated with a user](#)
- [Passenger tracking systems and methods](#)
- [Inductive loop detection systems and methods](#)
- [Pedestrian detection when a vehicle is reversing](#)
- [Sinkhole detection systems and methods](#)
- [Detecting hazards in anticipation of opening vehicle doors](#)
- [Rear camera stub detection](#)
- [Accident attenuation systems and methods](#)
- [Lane detection systems and methods](#)
- [Vehicle localization using cameras](#)

Publications

[KSM+21]

PDFBIB

Kloock, M. M., Scheffe, P., Maczijewski, J., Kampmann, A., Mokhtarian, A., Kowalewski, S., and Alrifaae, B., "Cyber-Physical Mobility Lab : An Open-Source Platform for Networked and Autonomous Vehicles". 2021.

Cyber-Physical Mobility Lab : An Open-Source Platform for Networked and Autonomous Vehicles

Bibtex entry :

```
@inproceedings { KSM+21,  
  author = { Kloock, Maximilian Martin and Scheffe, Patrick and  
    Maczijewski, Janis and Kampmann, Alexandru and Mokhtarian,  
    Armin and Kowalewski, Stefan and Alrifaae, Bassam },  
  title = { Cyber-Physical Mobility Lab : An Open-Source Platform for  
    Networked and Autonomous Vehicles },  
  year = { 2021 },  
  organization = { 2021 European Control Conference, Delft  
    (Netherlands),  
    2021-06-29 - 2021-07-02 },
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doi = { 10.23919/ECC54610.2021.9654986 },
typ = { PUB:(DE-HGF)7 },
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cin = { 122810 / 120000 },
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[MKL+21]

[PDFBIB](#)

Mokhtarian, A., Kampmann, A., Lüer, M., Kowalewski, S., and Alrifaae, B., "A Cloud Architecture for Networked and Autonomous Vehicles", *IFAC-PapersOnLine*, vol. 54, iss. 2, pp. 233-239, 2021

A Cloud Architecture for Networked and Autonomous Vehicles

Bibtex entry :

```
@article { MKL+21,
  author = { Mokhtarian, Armin and Kampmann, Alexandru and L{"u}er,
    Maximilian and Kowalewski, Stefan and Alrifaae, Bassam },
  title = { A Cloud Architecture for Networked and Autonomous
    Vehicles },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  pages = { 233-239 },
  volume = { 54 },
  number = { 2 },
  year = { 2021 },
  address = { Frankfurt },
  issn = { 2405-8963 },
  organization = { 16th IFAC Symposium on Control in Transportation
    Systems,
      online, 2021-06-08 - 2021-06-10 },
  doi = { 10.1016/j.ifacol.2021.06.028 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2021-09294 },
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  url = {
    http://publications.rwth-aachen.de/record/828696/files/828696.pdf },
}
```

[KMR+20]

[PDFBIB](#)

Kampmann, A., Mokhtarian, A., Rogalski, J., Kowalewski, S., and Alrifaae, B., "Agile Latency Estimation for a Real-time Service-oriented Software Architecture", *IFAC-PapersOnLine*, vol. 53, iss. 2, pp. 5795-5800, 2020

Agile Latency Estimation for a Real-time Service-

oriented Software Architecture

Bibtex entry :

```
@article { KMR+20,  
  author = { Kampmann, Alexandru and Mokhtarian, Armin and Rogalski,  
  Jan  
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  title = { Agile Latency Estimation for a Real-time Service-oriented  
    Software Architecture },  
  journal = { IFAC-PapersOnLine },  
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  pages = { 5795-5800 },  
  volume = { 53 },  
  number = { 2 },  
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  issn = { 2405-8963 },  
  organization = { 21st IFAC World Congress on Automatic Control -  
  Meeting  
    Societal Challenges, Berlin (Germany), 2020-07-11 -  
    2020-07-17 },  
  doi = { 10.1016/j.ifacol.2020.12.1619 },  
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```

[LvW+20]

[PDFBIB](#)

Lampe, B., van Kempen, R., Woopen, T., Kampmann, A., Alrifaae, B., and Eckstein, L., "Reducing Uncertainty by Fusing Dynamic Occupancy Grid Maps in a Cloud-based Collective Environment Model", in *Proc. 2020 IEEE Intelligent Vehicles Symposium (IV) / publisher: IEEE, Piscataway, NJ, 2020, IEEE, pp. 837-843.*

Reducing Uncertainty by Fusing Dynamic Occupancy Grid Maps in a Cloud-based Collective Environment Model

Bibtex entry :

```
@inproceedings { LvW+20,  
  author = { Lampe, Bastian and van Kempen, Raphael and Woopen, Timo  
  and  
    Kampmann, Alexandru and Alrifaae, Bassam and Eckstein, Lutz },  
  title = { Reducing Uncertainty by Fusing Dynamic Occupancy Grid  
  Maps
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    in a Cloud-based Collective Environment Model },
    booktitle = { 2020 IEEE Intelligent Vehicles Symposium (IV) /
publisher:
    IEEE },
    publisher = { IEEE },
    pages = { 837-843 },
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    address = { Piscataway, NJ },
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2020-10-19
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    doi = { 10.1109/IV47402.2020.9304816 },
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    reportid = { RWTH-2021-02777 },
    cin = { 414110 / 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/815706 },
}

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[LvW+20a]

PDFBIB

Lampe, B., van Kempen, R., Woopen, T., Kampmann, A., Alrifaae, B., and Eckstein, L., "Reducing Uncertainty by Fusing Dynamic Occupancy Grid Maps in a Cloud-based Collective Environment Model", , p. 7, 2020

Reducing Uncertainty by Fusing Dynamic Occupancy Grid Maps in a Cloud-based Collective Environment Model

Bibtex entry :

```

@article { LvW+20a,
    author = { Lampe, Bastian and van Kempen, Raphael and Woopen, Timo
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Maps
    in a Cloud-based Collective Environment Model },
    pages = { 7 Seiten },
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    cin = { 414110 / 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/817686/files/817686.pdf },
}

```

[MKA+20]

PDFBIB

Mokhtarian, A., Kampmann, A., Alrifaae, B., Kowalewski, S., Lampe, B., and Eckstein, L., "Agile Requirement Engineering for a Cloud System for Automated and Networked Vehicles", in *Proc.*

2nd International Workshop on Autonomous Systems Design : ASD 2020, March 13, 2020, Grenoble, France, converted to a virtual event due to COVID-19, held in April 2020 / edited by Sebastian Steinhorst, Jyotirmoy V. Deshmukh, Saarbrücken/Wadern, Germany, 2020 in OpenAccess Series in Informatics, Schloss Dagstuhl - Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, August, p. 4:1-4:8.

Agile Requirement Engineering for a Cloud System for Automated and Networked Vehicles

Bibtex entry :

```
@inproceedings { MKA+20,  
  author = { Mokhtarian, Armin and Kampmann, Alexandru and Alrifaae,  
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  booktitle = { 2nd International Workshop on Autonomous Systems  
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  publisher = { Schloss Dagstuhl - Leibniz-Zentrum für Informatik  
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  pages = { 4:1-4:8 },  
  series = { OpenAccess Series in Informatics },  
  year = { 2020 },  
  address = { Saarbrücken/Wadern, Germany },  
  organization = { 2nd International Workshop on Autonomous Systems  
Design,  
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  typ = { PUB:(DE-HGF)7 },  
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[MKA+20a]

[PDFBIB](#)

Mokhtarian, A., Kampmann, A., Alrifaae, B., and Kowalewski, S., "The Dynamic Service-oriented Software Architecture for the UNICARagil Project", in *Proc. 29. Aachen Colloquium Sustainable Mobility : October 5th-7th, 2020, digital event / scientific management: Univ.-Prof. Dr.-Ing. Lutz Eckstein, Univ.-Prof. Dr.-Ing. Stefan Pischinger ; organizational management: Michaela Wacker (M. Sc.), Jonas Müller (M. Sc.) ; organized by: Institute for Automotive Engineering, RWTH Aachen University; Institute for Combustion Engines, RWTH Aachen University. - 1: October 6th, 2020, Aachen, 2020, Institute for Automotive Engineering, RWTH Aachen University ; Aachen : Institute for Combustion Engines, RWTH Aachen University, pp. 275-284.*

The Dynamic Service-oriented Software Architecture for the UNICARagil Project

Bibtex entry :

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@inproceedings { MKA+20a,
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    UNICARagil Project },
  booktitle = { 29. Aachen Colloquium Sustainable Mobility : October
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    Univ.-Prof. Dr.-Ing. Lutz Eckstein, Univ.-Prof. Dr.-Ing.
    Stefan Pischinger ; organizational management: Michaela
    Wacker (M. Sc.), Jonas M{"u}ller (M. Sc.) ; organized by:
    Institute for Automotive Engineering, RWTH Aachen
    University; Institute for Combustion Engines, RWTH Aachen
    University. - 1: October 6th, 2020 },
  publisher = { Institute for Automotive Engineering, RWTH Aachen
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  pages = { 275-284 },
  year = { 2020 },
  address = { Aachen },
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Aachener
    Kolloquium Fahrzeug- und Motorentechnik, online, 2020-02-05
    - 2020-02-07 },
  doi = { 10.18154/RWTH-2020-11256 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2020-11256 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/807282/files/807282.pdf },
}
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[SMK+20]

[PDFBIB](#)

Scheffe, P., Maczijewski, J., Kloock, M. M., Kampmann, A., Derks, A., Kowalewski, S., and Alrifaae, B., "Networked and Autonomous Model-scale Vehicles for Experiments in Research and Education", *IFAC-PapersOnLine*, vol. 53, iss. 2, pp. 17332-17337, 2020

Networked and Autonomous Model-scale Vehicles for Experiments in Research and Education

Bibtex entry :

```
@article { SMK+20,  
  author = { Scheffe, Patrick and Maczijekowski, Janis and Kloock,  
            Maximilian Martin and Kampmann, Alexandru and Derks, Andreas  
            and Kowalewski, Stefan and Alrifaae, Bassam },  
  title = { Networked and Autonomous Model-scale Vehicles for  
            Experiments in Research and Education },  
  journal = { IFAC-PapersOnLine },  
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  pages = { 17332-17337 },  
  volume = { 53 },  
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  year = { 2020 },  
  address = { Frankfurt },  
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  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2021-03987 },  
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http://publications.rwth-aachen.de/record/817552/files/817552.pdf },  
}
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[KAK+19]

PDFBIB

Kampmann, A., Alrifaae, B., Kohout, M., Wüstenberg, A., Woopen, T., Nolte, M., Eckstein, L., and Kowalewski, S., "A Dynamic Service-Oriented Software Architecture for Highly Automated 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, pp. 2101-2108.*

A Dynamic Service-Oriented Software Architecture for Highly Automated Vehicles

Bibtex entry :

```
@inproceedings { KAK+19,  
  author = { Kampmann, Alexandru and Alrifaae, Bassam and Kohout,  
Markus  
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            Marcus and Eckstein, Lutz and Kowalewski, Stefan },  
  title = { A Dynamic Service-Oriented Software Architecture for  
Highly  
Automated Vehicles },  
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Conference  
- ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE,
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IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation
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publisher = { IEEE },
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address = { Piscataway, NJ },
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Conference,
Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
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typ = { PUB:(DE-HGF)7 },
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url = { http://publications.rwth-aachen.de/record/773699 },
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[KNR+19]

[PDFBIB](#)

Keilhoff, D., Niedballa, D., Reuss, H., Buchholz, M., Gies, F., Dietmayer, K., Lauer, M., Stiller, C., Ackermann, S., Winner, H., Kampmann, A., Alrifaae, B., Kowalewski, S., Klein, F., Struth, M. M., Woopen, T., and Eckstein, L., "UNICARagil - New architectures for disruptive vehicle concepts", in *Proc. 19. Internationales Stuttgarter Symposium : Automobil- und Motorentechnik / herausgegeben von Michael Bargende, Hans-Christian Reuss, Andreas Wagner, Jochen Wiedemann*, Wiesbaden, 2019 in Proceedings Springer eBooks, Springer Fachmedien Wiesbaden, pp. 830-842.

UNICARagil - New architectures for disruptive vehicle concepts

Bibtex entry :

```

@inproceedings { KNR+19,
author = { Keilhoff, Dan and Niedballa, Dennis and Reuss,
Hans-Christian and Buchholz, Michael and Gies, Fabian and
Dietmayer, Klaus and Lauer, Martin and Stiller, Christoph
and Ackermann, Stefan and Winner, Hermann and Kampmann,
Alexandru and Alrifaae, Bassam and Kowalewski, Stefan and
Klein, Fabian and Struth, Michael Manfred and Woopen, Timo
and Eckstein, Lutz },
title = { UNICARagil - New architectures for disruptive vehicle
concepts },
booktitle = { 19. Internationales Stuttgarter Symposium :
Automobil- und
Motorentechnik / herausgegeben von Michael Bargende,
Hans-Christian Reuss, Andreas Wagner, Jochen Wiedemann },
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pages = { 830-842 },
series = { Proceedings Springer eBooks },
year = { 2019 },
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organization = { 19. Internationales Stuttgarter Symposium :  
Automobil- und  
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doi = { 10.1007/978-3-658-25939-6_65 },  
typ = { PUB:(DE-HGF)7 },  
reportid = { RWTH-2019-09748 },  
cin = { 122810 / 120000 / 414110 },  
url = { http://publications.rwth-aachen.de/record/770823 },  
}
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[KWA+19]

[PDFBIB](#)

Kampmann, A., Wüstenberg, A., Alrifaae, B., and Kowalewski, S., "A Portable Implementation of the Real-Time Publish-Subscribe Protocol for Microcontrollers in Distributed Robotic Applications", 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. 443-448.*

A Portable Implementation of the Real-Time Publish-Subscribe Protocol for Microcontrollers in Distributed Robotic Applications

Bibtex entry :

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@inproceedings { KWA+19,  
author = { Kampmann, Alexandru and W{\u}stenberg, Andreas and  
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title = { A Portable Implementation of the Real-Time Publish-  
Subscribe  
Protocol for Microcontrollers in Distributed Robotic  
Applications },  
booktitle = { The 2019 IEEE Intelligent Transportation Systems  
Conference  
- ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE,  
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Systems Society },  
publisher = { IEEE },  
pages = { 443-448 },  
year = { 2019 },  
address = { Piscataway, NJ },  
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Conference,  
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[WLB+18]

PDFBIB

Woopen, T., Lampe, B., Böddeker, T., Eckstein, L., Kampmann, A., Alrifaae, B., Kowalewski, S., Moormann, D., Stolte, T., Jatzkowski, I., Maurer, M., Möstl, M., Ernst, R., Ackermann, S., Amersbach, C., Winner, H., Püllen, D., Katzenbeisser, S., Leinen, S., Becker, M., Stiller, C., Furmans, K., Bengler, K., Diermeyer, F., Lienkamp, M., Keilhoff, D., Reuss, H., Buchholz, M., Dietmayer, K., Lategahn, H., Siepenkötter, N., Elbs, M., v. Hinüber, E., Dupuis, M., and Hecker, C., "UNICARagil - Disruptive Modular Architectures for Agile, Automated Vehicle Concepts", in *Proc. 27. Aachen Colloquium Automobile and Engine Technology : October 8th-10th, 2018, Eurogress Aachen, Germany / scientific management: Univ.-Prof. Dr.-Ing. Lutz Eckstein, Univ.-Prof. Dr.-Ing. Stefan Pischinger ; organizational management: Benedikt Hammermüller (M. Sc.), Dipl.-Ing. Rainer Wolsfeld ; organized by: Institute for Automotive Engineering (RWTH Aachen), Institute for Combustion Engines (RWTH Aachen), Aachen, 2018, Institute for Automotive Engineering, RWTH Aachen ; Aachen : Institute for Combustion Engines, RWTH Aachen, pp. 663-694.*

UNICARagil - Disruptive Modular Architectures for Agile, Automated Vehicle Concepts

Bibtex entry :

```
@inproceedings { WLB+18,
  author = { Woopen, Timo and Lampe, Bastian and B{"o}ddeker, Torben
and
  Eckstein, Lutz and Kampmann, Alexandru and Alrifaae, Bassam
and Kowalewski, Stefan and Moormann, Dieter and Stolte,
Torben and Jatzkowski, Inga and Maurer, Markus and
M{"o}stl, Mischa and Ernst, Rolf and Ackermann, Stefan and
Amersbach, Christian and Winner, Hermann and P{"u}llen,
Dominik and Katzenbeisser, Stefan and Leinen, Stefan and
Becker, Matthias and Stiller, Christoph and Furmans, Kai and
Bengler, Klaus and Diermeyer, Frank and Lienkamp, Markus and
Keilhoff, Dan and Reuss, Hans-Christian and Buchholz,
Michael and Dietmayer, Klaus and Lategahn, Henning and
Siepenk{"o}tter, Norbert and Elbs, Martin and v.
Hin{"u}ber, Edgar and Dupuis, Marius and Hecker, Christian },
  title = { UNICARagil - Disruptive Modular Architectures for Agile,
Automated Vehicle Concepts },
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Technology :
  October 8th-10th, 2018, Eurogress Aachen, Germany /
scientific management: Univ.-Prof. Dr.-Ing. Lutz Eckstein,
Univ.-Prof. Dr.-Ing. Stefan Pischinger ; organizational
management: Benedikt Hammerm{"u}ller (M. Sc.), Dipl.-Ing.
Rainer Wolsfeld ; organized by: Institute for Automotive
Engineering (RWTH Aachen), Institute for Combustion Engines
(RWTH Aachen) },
  publisher = { Institute for Automotive Engineering, RWTH Aachen ;
Aachen :
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pages = { 663-694 },
year = { 2018 },
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typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-229909 },
cin = { 414110 / 122810 / 415410 / 120000 },
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http://publications.rwth-aachen.de/record/749158/files/749158_Liste%20d
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  illkey = { DESIREE - Konzeptionierung und Umsetzung des
automatisierten
    AUTOshuttles },
}
```

[KGK17]

[PDFBIB](#)

Kalkov, I., Gurghian, A., and Kowalewski, S., "Explicit prioritization of parallel Intent broadcasts in real-time Android", in *Proc. Concurrency and computation*, Chichester, 2017, vol. 29, Wiley.

Explicit prioritization of parallel Intent broadcasts in real-time Android

Bibtex entry :

```
@inproceedings { KGK17,
  author = { Kalkov, Igor and Gurghian, Alexandru and Kowalewski,
Stefan },
  title = { Explicit prioritization of parallel Intent broadcasts in
real-time Android },
  booktitle = { Concurrency and computation },
  publisher = { Wiley },
  volume = { 29 },
  number = { 22 },
  year = { 2017 },
  address = { Chichester },
  issn = { 1532-0626 },
  organization = { 12th International workshop on Java Technologies
for
    Real-Time and Embedded systems, Niagara Falls, NY (USA),
    2014-10-13 - 2014-10-14 },
  doi = { 10.1002/cpe.4122 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2017-09553 },
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/707959 },
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[KGK15]

[PDFBIB](#)

Kalkov, I., Gurchian, A., and Kowalewski, S., "Priority Inheritance during Remote Procedure Calls in Real-Time Android using Extended Binder Framework", in *Proc. Proceedings of the 13th International Workshop on Java Technologies for Real-time and Embedded Systems*, New York, NY, 2015 in ACM Other conferences, ACM, p. 5.

Priority Inheritance during Remote Procedure Calls in Real-Time Android using Extended Binder Framework

Bibtex entry :

```
@inproceedings { KGK15,
  author = { Kalkov, Igor and Gurchian, Alexandru and Kowalewski,
Stefan },
  title = { Priority Inheritance during Remote Procedure Calls in
Real-Time Android using Extended Binder Framework },
  booktitle = { Proceedings of the 13th International Workshop on
Java
Technologies for Real-time and Embedded Systems },
  publisher = { ACM },
  pages = { 5, 10 Seiten },
  series = { ACM Other conferences },
  year = { 2015 },
  address = { New York, NY },
  organization = { 13th International Workshop on Java Technologies
for
Real-time and Embedded Systems, Paris (France), 2015-10-07 -
2015-10-08 },
  doi = { 10.1145/2822304.2822311 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-03747 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/573802 },
}
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[KGK14]

[PDFBIB](#)

Kalkov, I., Gurchian, A., and Kowalewski, S., "Predictable Broadcasting of Parallel Intents in Real-Time Android", in *Proc. Proceedings of the 12th International Workshop on Java Technologies for Real-time and Embedded Systems : JTRES 2014 : Niagara Falls, NY, USA, October 13th-14th, 2014*, New York, New York, 2014 in ACM international conference proceedings series, ACM, pp. 57-66.

Predictable Broadcasting of Parallel Intents in Real-Time Android

Bibtex entry :

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@inproceedings { KGK14,  
  author = { Kalkov, Igor and Gurghian, Alexandru and Kowalewski,  
Stefan },  
  title = { Predictable Broadcasting of Parallel Intents in Real-Time  
Android },  
  booktitle = { Proceedings of the 12th International Workshop on  
Java  
Technologies for Real-time and Embedded Systems : JTRES 2014  
: Niagara Falls, NY, USA, October 13th-14th, 2014 },  
  publisher = { ACM },  
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  series = { ACM international conference proceedings series },  
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  address = { New York, New York },  
  organization = { 12th International Workshop on Java Technologies  
for  
Real-time and Embedded Systems, Niagara Falls, NY (USA),  
2014-10-13 - 2014-10-14 },  
  typ = { PUB:(DE-HGF)8 },  
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