

# Alexandru Kampmann, M.Sc. RWTH

## Contact

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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

[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 :**

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@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
```

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    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 },
    publisher = { Springer Fachmedien Wiesbaden },
    pages = { 830-842 },
    series = { Proceedings Springer eBooks },
    year = { 2019 },
    address = { Wiesbaden },
    organization = { 19. Internationales Stuttgarter Symposium :
Automobil- und
    Motorentechnik, Stuttgart (Germany), 2019-03-19 - 2019-03-20 },
    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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[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. Aachener Kolloquium Fahrzeug- und Motorentechnik : October 8th - 10th, 2018 - Eurogress Aachen, Aachen, 2018, Aachener Kolloquium Fahrzeug- und Motorentechnik GbR, 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

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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 },
booktitle = { { 27. Aachener Kolloquium Fahrzeug- und
Motorentechnik :
October 8th - 10th, 2018 - Eurogress Aachen },
germany = { 27. Aachen Colloquium Automobile and Engine Technology.
- 1
} },
publisher = { Aachener Kolloquium Fahrzeug- und Motorentechnik GbR
},
pages = { 663-694 },
year = { 2018 },
address = { Aachen },
organization = { 27th Aachen Colloquium Automobile and Engine
Technology
2018, Aachen (Germany), 2018-10-08 - 2018-10-10 },
doi = { 10.18154/RWTH-2018-229909 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-229909 },
cin = { 414110 / 122810 / 415410 / 120000 },
url = {
http://publications.rwth-aachen.de/record/749158/files/749158_Liste%20d
er%20Partner%20.pdf },
}
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[KGK17]

[PDFBIB](#)

Kalkov, I., Gurchian, 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 Gurchian, Alexandru and Kowalewski,
Stefan },
title = { Explicit prioritization of parallel Intent broadcasts in
real-time Android },
booktitle = { Concurrency and computation },
publisher = { Wiley },
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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 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/707959 },
}

```

[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 - JTRES '15 - ACM Press New York, New York, USA, 2015*, 2015, ACM Press New York, New York, USA, 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 - JTRES '15
- ACM Press
New York, New York, USA, 2015 },
    publisher = { ACM Press
New York, New York, USA },
    pages = { 5, 10 Seiten },
    year = { 2015 },
    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)8 },
    reportid = { RWTH-2016-03747 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/573802 },
}

```

[KGK14]

PDFBIB

Kalkov, I., Gurchian, A., and Kowalewski, S., "Predictable Broadcasting of Parallel Intents in Real-Time Android" New York, New York: ACM, 2014, pp. 57-66.

## Predictable Broadcasting of Parallel Intents in Real-Time Android

### Bibtex entry :

```
@inbook { KGK14,
  author = { Kalkov, Igor and Gurchian, 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 },
  pages = { 57-66 },
  series = { ACM international conference proceedings series },
  year = { 2014 },
  address = { New York, New York },
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for
Real-time and Embedded Systems, Niagara Falls, NY (USA),
2014-10-13 - 2014-10-14 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-205503 },
  cin = { 120000 / 122810 },
  url = { http://publications.embedded.rwth-aachen.de/file/5g },
}
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