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Kontakt



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Forschungsschwerpunkte

- Software Qualität mobiler eingebetteter Systeme
 - Android
 - iOS
 - J2ME
 - Windows Phone
- Echtzeitsysteme
 - [Java Real-Time System](#)
 - [Erlang](#)

Projekte

- [The UMIC Software Quality Initiative](#)
- [eNav](#)
- [MAVerix - Teilnahme an der IMAV \(International Micro Air Vehicle Competition\)](#)

Veröffentlichungen

[DSF+17]

[PDFBIB](#)

Dzafic, D., Schoonbrood, P., Franke, D., and Kowalewski, S., "ENav: A Suitable Navigation System for the Disabled", in *Proc. Ambient Assisted Living : 9. AAL-Kongress, Frankfurt/M, Germany, April 20 - 21, 2016* / edited by Reiner Wichert, Beate Mand, Cham ; s.l., 2017 in *Advanced Technologies and Societal Change*, Springer International Publishing ; Imprint: Springer, pp. 133-150.

eNav: A Suitable Navigation System for the Disabled

Bibtex entry :

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@inproceedings { DSF+17,  
  author = { Dzafic, Dzenan and Schoonbrood, Pierre and Franke,  
    Dominik  
      and Kowalewski, Stefan },  
  title = { eNav: A Suitable Navigation System for the Disabled },  
  booktitle = { Ambient Assisted Living : 9. AAL-Kongress,  
    Frankfurt/M,  
      Germany, April 20 - 21, 2016 / edited by Reiner Wichert,  
      Beate Mand },  
  publisher = { Springer International Publishing ; Imprint: Springer  
    },  
  pages = { 133-150 },  
  series = { Advanced Technologies and Societal Change },  
  year = { 2017 },  
  address = { Cham ; s.l. },  
  organization = { 9th Congress on Ambient Assisted Living,  
    Frankfurt/M  
      (Germany), 2016-04-20 - 2016-04-21 },  
  doi = { 10.1007/978-3-319-52322-4_9 },  
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[DWS+17]

[PDFBIB](#)

Dzafic, D., Wagener, N., Schoonbrood, P., Franke, D., and Kowalewski, S., "Multimodales Dynamisches Routen mit eNav", in *Proc. agit_2017 geospatialonline / Herausgeber: Prof. Dr. Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr. Thomas Blaschke*, Berlin ; Offenbach, 2017 in AGIT : Journal für angewandte Geoinformatik, Wichmann, pp. 278-287.

Multimodales Dynamisches Routen mit eNav

Bibtex entry :

```
@inproceedings { DWS+17,  
  author = { Dzafic, Dzenan and Wagener, Nicolas and Schoonbrood,  
    Peter  
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  title = { Multimodales Dynamisches Routen mit eNav },  
  booktitle = { agit_2017 geospatialonline / Herausgeber: Prof. Dr.  
    Josef  
      Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof.  
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pages = { 278-287 },
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Salzburg
(Austria), 2017-07-05 - 2017-07-07 },
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[DWS+17a]

[PDFBIB](#)

Dzafic, D., Wagener, N., Schoonbrood, P., Franke, D., and Kowalewski, S., "Multimodal Dynamic Routing for Wheelchairs and Pedestrians", in *Proc. Proceedings International Conference on Intelligent Transport Systems in Theory and Practice, mobil.TUM 2017*, 2017, Elsevier B.V., pp. 1-10.

Multimodal Dynamic Routing for Wheelchairs and Pedestrians

Bibtex entry :

```

@inproceedings { DWS+17a,
  author = { Dzafic, Dzenan and Wagener, Nicolas and Schoonbrood,
Peter
and Franke, Dominik and Kowalewski, Stefan },
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Pedestrians },
  booktitle = { Proceedings International Conference on Intelligent
Transport Systems in Theory and Practice, mobil.TUM 2017 },
  publisher = { Elsevier B.V. },
  pages = { 1-10 },
  year = { 2017 },
  organization = { International Conference on Intelligent Transport
Systems in
Theory and Practice, M{"u}nchen (Germany), 2017-07-04 -
2017-07-05 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236301 },
  cin = { 122810 / 120000 / 414110 },
  url = { http://publications.rwth-aachen.de/record/752277 },
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[DKS+16]

[PDFBIB](#)

Dzafic, D., Klein-Ridder, D., Schoonbrood, P., Franke, D., and Kowalewski, S., "Der Bodenbelag-Detektor des eNav-Systems", in *Proc. agit_2016 - open:spatial:interfaces / Herausgeber: Prof.*

Dr. Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr. Thomas Blaschke, Berlin, 2016 in *AGIT : Journal für Angewandte Geoinformatik*, Wichmann, eine Marke der VDE Verlag GmbH, pp. 318-327.

Der Bodenbelag-Detektor des eNav-Systems

Bibtex entry :

```
@inproceedings { DKS+16,
  author = { Dzafic, Dzenan and Klein-Ridder, Daniel and Schoonbrood,
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  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber:
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    Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner,
    Prof. Dr. Thomas Blaschke },
  publisher = { Wichmann, eine Marke der VDE Verlag GmbH },
  pages = { 318-327 },
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  year = { 2016 },
  address = { Berlin },
  organization = { 28. AGIT-Symposium, Salzburg (Austria), 2016-07-06
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    2016-07-08 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12052 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680869 },
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```

[DLS+16]

[PDFBIB](#)

Dzafic, D., Lahr, F., Schoonbrood, P., Franke, D., and Kowalewski, S., "Das Barrierenerkennungssystem von eNav", in *Proc. agit_2016 - open:spatial:interfaces / Herausgeber: Prof. Dr. Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr. Thomas Blaschke*, Berlin, 2016 in *AGIT : Journal für Angewandte Geoinformatik*, Wichmann, eine Marke der VDE Verlag GmbH, pp. 298-307.

Das Barrierenerkennungssystem von eNav

Bibtex entry :

```
@inproceedings { DLS+16,
  author = { Dzafic, Dzenan and Lahr, Florian and Schoonbrood, Pierre
  and
    Franke, Dominik and Kowalewski, Stefan },
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  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber:
  Prof. Dr.
    Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner,
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    Prof. Dr. Thomas Blaschke },
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    2016-07-08 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2016-12055 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/680872 },
}

```

[DKF+15]

[PDFBIB](#)

Dzafic, D., Klug, S., Franke, D., and Kowalewski, S., "Routing über Flächen mit SpiderWebGraph", in *Proc. Journal für angewandte Geoinformatik 1-2015*, 2015, pp. 516-252.

Routing über Flächen mit SpiderWebGraph

Bibtex entry :

```

@inproceedings { DKF+15,
  author = { Dzafic, Dzenan and Klug, Stefan and Franke, Dominik and
    Kowalewski, Stefan },
  title = { Routing {"u}ber Fl{"a}chen mit SpiderWebGraph },
  booktitle = { Journal f{"u}r angewandte Geoinformatik 1-2015 },
  pages = { 516-252 },
  year = { 2015 },
  organization = { Journal f{"u}r angewandte Geoinformatik 1-2015 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2017-00133 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/681324 },
}

```

[FKL15]

[PDFBIB](#)

Franke, D., Kowalewski, S., and Lichter, H., "Testing life cycle-related properties of mobile applications", , Aachen, AIB-2015-02, 2015.

Testing life cycle-related properties of mobile applications

Bibtex entry :

```

@techreport { FKL15,
  author = { Franke, Dominik and Kowalewski, Stefan and Lichter,

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Horst },
  title = { Testing life cycle-related properties of mobile
applications },
  publisher = { Shaker },
  school = { RWTH Aachen University },
  pages = { X, 114 S. : Ill., graph. Darst. },
  volume = { 2015,02 },
  number = { AIB-2015-02 },
  series = { Aachener Informatik-Berichte },
  year = { 2015 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
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  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/466122/files/466122.pdf },
}
```

[AFK+14]

[PDFBIB](#)

Armoush, A., Franke, D., Kalkov, I., and Kowalewski, S., "An Approach for Using Mobile Devices In Industrial Safety-Critical Embedded Systems" Cham: Springer, 2014, vol. 130, pp. 294-297.

An Approach for Using Mobile Devices In Industrial Safety-Critical Embedded Systems

Bibtex entry :

```
@inbook { AFK+14,
  author = { Armoush, Ashraf and Franke, Dominik and Kalkov, Igor and
Kowalewski, Stefan },
  title = { An Approach for Using Mobile Devices In Industrial
Safety-Critical Embedded Systems },
  booktitle = { Mobile Computing, Applications, and Services : 5th
International Conference, MobiCase 2013, Paris, France,
November 7-8, 2013, Revised Selected Papers },
  publisher = { Springer },
  pages = { 294-297 },
  volume = { 130 },
  series = { Lecture Notes of the Institute for Computer Sciences,
Social-Informatics and Telecommunications Engineering },
  year = { 2014 },
  address = { Cham },
  doi = { 10.1007/978-3-319-05452-0_27 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203202 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/225590 },
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```

[DF14]

PDFBIB

Dzafic, D. and Franke, D., "Integration von Informationen über die Bodenbeschaffenheit in das eNav-System : [Zusammenfassung der] Masterarbeit" Bonn: Ges. für Informatik, 2014, vol. S-13, pp. 123-126.

Integration von Informationen über die Bodenbeschaffenheit in das eNav-System : [Zusammenfassung der] Masterarbeit

Bibtex entry :

```
@inbook { DF14,
  author = { Dzafic, Dzenan and Franke, Dominik },
  title = { Integration von Informationen über die
    Bodenbeschaffenheit in das eNav-System : [Zusammenfassung
    der ] Masterarbeit },
  booktitle = { Informatiktage 2014 / Fachwissenschaftlicher
    Informatik-Kongress, 27. und 28. März 2014,
    Hasso-Plattner-Institut der Universität Potsdam ... },
  publisher = { Ges. für Informatik },
  pages = { 123-126 },
  volume = { S-13 },
  series = { GI-Edition : lecture notes in informatics / Seminars },
  year = { 2014 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)8 },
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  cin = { 120000 / 122810 },
  url = { http://publications.embedded.rwth-aachen.de/file/59 },
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```

[DFB+14]

PDFBIB

Dzafic, D., Franke, D., Baumeister, D., and Kowalewski, S., "Integration von Bodenbelagsinformationen zum energieeffizienten Routen von Elektrorollstühlen", in *Proc. Angewandte Geoinformatik 2014 : Beiträge zum 26. AGIT-Symposium Salzburg / Strobl/ Blaschke/Griesebner/Zagl (Hrsg.)*, Berlin [u.a.], 2014, Wichmann, pp. 451-460.

Integration von Bodenbelagsinformationen zum energieeffizienten Routen von Elektrorollstühlen

Bibtex entry :

```
@inproceedings { DFB+14,
  author = { Dzafic, Dzenan and Franke, Dominik and Baumeister, Danni
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energieeffizienten Routen von Elektrorollst{\u}hlen },
booktitle = { Angewandte Geoinformatik 2014 : Beitr{"a}ge zum 26.
AGIT-Symposium Salzburg / Strobl/ Blaschke/Griesebner/Zagl
(Hrsg.) },
publisher = { Wichmann },
pages = { 451-460 },
year = { 2014 },
address = { Berlin [u.a.] },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-205745 },
cin = { 120000 / 122810 },
url = { http://publications.embedded.rwth-aachen.de/file/5c },
}

```

[FK14]

[PDFBIB](#)

Franke, D. and Kowalewski, S., "Concept and Experiences on Using a Wiki-Based System for Software-Related Seminar Papers" Berlin [u.a.]: Springer, 2014, vol. 7991, pp. 140-146.

Concept and Experiences on Using a Wiki-Based System for Software-Related Seminar Papers

Bibtex entry :

```

@inbook { FK14,
  author = { Franke, Dominik and Kowalewski, Stefan },
  title = { Concept and Experiences on Using a Wiki-Based System for
Software-Related Seminar Papers },
  booktitle = { Information technology and open source: applications
for
education, innovation, and sustainability : SEFM 2012
Satellite Events, InSuEdu, MoKMaSD, and OpenCert,
Thessaloniki, Greece, October 1 - 2, 2012 ; revised selected
papers / Antonio Cerone; Donatella Persico; Sara Fernandes;
Alexeis Garcia-Perez; Panagiotis Katsaros; Siraj Ahmed
Shaikh; Ioannis Stamelos (eds.) },
  publisher = { Springer },
  pages = { 140-146 },
  volume = { 7991 },
  series = { Lecture notes in computer science },
  year = { 2014 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-642-54338-8_11 },
  typ = { PUB:(DE-HGF)8 },
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  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/225247 },
}

```

[DF13]

PDFBIB

Dzafic, D. and Franke, D., "Entwicklung und Evaluation eines Navigationssystems für Elektrorollstühle" Bonn: Gesellschaft für Informatik e.V., 2013, vol. 12, pp. 185-188.

Entwicklung und Evaluation eines Navigationssystems für Elektrorollstühle

Bibtex entry :

```
@inbook { DF13,
  author = { Dzafic, Dzenan and Franke, Dominik },
  title = { Entwicklung und Evaluation eines Navigationssystems
f{"u}r
  Elektrorollst{"u}hle },
  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
  fachwissenschaftlicher Informatik-Kongress 22. und 23.
  M{"a}rz 2013 B-IT Bonn-Aachen International Center for
  Information Technology, Bonn / Gesellschaft f{"u}r
  Informatik (Hrsg.). [Red.: Ludger Porada] },
  publisher = { Gesellschaft f{"u}r Informatik e.V. },
  pages = { 185-188 },
  volume = { 12 },
  series = { GI-Edition : lecture notes in informatics },
  year = { 2013 },
  address = { Bonn },
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  url = { http://publications.rwth-aachen.de/record/226146 },
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[DFB+13]

PDFBIB

Dzafic, D., Franke, D., Baumeister, D., and Kowalewski, S., "Modifikation des A*-Algorithmus für energieeffizientes 3D-Routing", in *Proc. Angewandte Geoinformatik 2013 : Beiträge zum 25. AGIT-Symposium Salzburg / Strobl ; Blaschke ; Griesebner ; Zagel (Hrsg.)*, Berlin ; Offenbach, 2013, Wichmann, pp. 414-423.

Modifikation des A*-Algorithmus für energieeffizientes 3D-Routing

Bibtex entry :

```
@inproceedings { DFB+13,
  author = { Dzafic, Dzenan and Franke, Dominik and Baumeister, Danni
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publisher = { Wichmann },
pages = { 414-423 },
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[FHK13]

[PDFBIB](#)

Franke, D., Hempel, S., and Kowalewski, S., "Specifying Life Cycle Requirements in a Natural-like Language and ptLTL", in *Proc. 2013 IEEE Sixth International Conference on Software Testing, Verification and Validation Workshops (ICSTW), Luxembourg 18-22 March 2013*, Piscataway, NJ, 2013, IEEE Computer Society, pp. 120-121.

Specifying Life Cycle Requirements in a Natural-like Language and ptLTL

Bibtex entry :

```
@inproceedings { FHK13,
  author = { Franke, Dominik and Hempel, Stefan and Kowalewski,
  Stefan },
  title = { Specifying Life Cycle Requirements in a Natural-like
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  booktitle = { 2013 IEEE Sixth International Conference on Software
  Testing, Verification and Validation Workshops (ICSTW),
  Luxembourg 18-22 March 2013 },
  publisher = { IEEE Computer Society },
  pages = { 120-121 },
  year = { 2013 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ICSTW.2013.72 },
  typ = { PUB:(DE-HGF)8 },
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  cin = { 120000 / 122810 },
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[GKS+13]

[PDFBIB](#)

Gerlitz, T., Kalkov, I., Schommer, J. F., Franke, D., and Kowalewski, S., "Non-Blocking Garbage Collection for Real-Time Android" New York, NY: ACM, 2013, pp. 108-117.

Non-Blocking Garbage Collection for Real-Time Android

Bibtex entry :

```
@inbook { GKS+13,  
  author = { Gerlitz, Thomas and Kalkov, Igor and Schommer, John F.  
and  
  Franke, Dominik and Kowalewski, Stefan },  
  title = { Non-Blocking Garbage Collection for Real-Time Android },  
  booktitle = { 11th International Workshop on Java Technologies for  
Real-time and Embedded Systems : JTRES 2013 ; 9-10 October  
2013, Karlsruhe, Germany },  
  publisher = { ACM },  
  pages = { 108-117 },  
  series = { ACM Digital Library },  
  year = { 2013 },  
  address = { New York, NY },  
  doi = { 10.1145/2512989.2512999 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-202515 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/224782 },  
}
```

[HF13]

[PDFBIB](#)

Hansen, N. and Franke, D., "Reverse Engineering des Windows Phone Process Execution Models" Bonn: Gesellschaft für Informatik e.V., 2013, vol. 12, pp. 83-86.

Reverse Engineering des Windows Phone Process Execution Models

Bibtex entry :

```
@inbook { HF13,  
  author = { Hansen, Norman and Franke, Dominik },  
  title = { Reverse Engineering des Windows Phone Process Execution  
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fachwissenschaftlicher Informatik-Kongress 22. und 23.  
M{"a"}rz 2013 B-IT Bonn-Aachen International Center for  
Information Technology, Bonn / Gesellschaft f{"u"}r  
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  publisher = { Gesellschaft f{"u"}r Informatik e.V. },  
  pages = { 83-86 },  
  volume = { 12 },  
  series = { GI-Edition : lecture notes in informatics },  
  year = { 2013 },  
  address = { Bonn },  
  typ = { PUB:(DE-HGF)8 },
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[FDB+12]

[PDFBIB](#)

Franke, D., Dzafic, D., Baumeister, D., and Kowalewski, S., "Energieeffizientes Routing für Elektrorollstühle", in *Proc. 13. Aachener Kolloquium Mobilität und Stadt (AMUS/ACMOTÉ)*, 2012, RWTH Aachen, pp. 65-68.

Energieeffizientes Routing für Elektrorollstühle

Bibtex entry :

```
@inproceedings { FDB+12,
  author = { Franke, Dominik and Dzafic, Dzenan and Baumeister, Danni
and
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  title = { Energieeffizientes Routing f{"u}r Elektrorollst{"u}hle
},
  booktitle = { 13. Aachener Kolloquium Mobilit{"a}t und Stadt
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  pages = { 65-68 },
  year = { 2012 },
  typ = { PUB:(DE-HGF)7 },
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752300 },
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[FEK12]

[PDFBIB](#)

Franke, D., Elsemann, C., and Kowalewski, S., "Reverse Engineering and Testing Service Life Cycles of Mobile Platforms", in *Proc. 2nd DEXA Workshop on Information Systems for Situation Awareness and Situation Management (ISSASiM) : 3. - 7. September, Wien, 2012*, IEEE Computer Society, pp. 16-20.

Reverse Engineering and Testing Service Life Cycles of Mobile Platforms

Bibtex entry :

```
@inproceedings { FEK12,
  author = { Franke, Dominik and Elsemann, Corinna and Kowalewski,
Stefan },
  title = { Reverse Engineering and Testing Service Life Cycles of
Mobile Platforms },
  booktitle = { 2nd DEXA Workshop on Information Systems for
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Situation

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Awareness and Situation Management (ISSASiM) : 3. - 7.
September, Wien },
publisher = { IEEE Computer Society },
pages = { 16-20 },
year = { 2012 },
doi = { 10.1109/DEXA.2012.40 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-182860 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/110850 },
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```

[FKW+12]

[PDFBIB](#)

Franke, D., Kowalewski, S., Weise, C., and Prakobkosol, N., "Testing Conformance of Life Cycle Dependent Properties of Mobile Applications", in *Proc. 2012 IEEE Fifth International Conference on Software Testing, Verification and Validation (ICST 2012) : Montréal, Québec, Canada, 17 - 21 April 2012 ; [proceedings ; including workshop papers] / [IEEE Computer Society]*, Piscataway, NJ, 2012, IEEE, pp. 241-250.

Testing Conformance of Life Cycle Dependent Properties of Mobile Applications

Bibtex entry :

```

@inproceedings { FKW+12,
  author = { Franke, Dominik and Kowalewski, Stefan and Weise, C. and
    Prakobkosol, N. },
  title = { Testing Conformance of Life Cycle Dependent Properties of
    Mobile Applications },
  booktitle = { 2012 IEEE Fifth International Conference on Software
    Testing, Verification and Validation (ICST 2012) :
    Montréal, Québec, Canada, 17 - 21 April 2012 ;
    [proceedings ; including workshop papers] / [IEEE Computer
    Society] },
  publisher = { IEEE },
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[FKW12]

[PDFBIB](#)

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A Mobile Software Quality Model

Bibtex entry :

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@inproceedings { FKW12,
  author = { Franke, Dominik and Kowalewski, Stefan and Weise,
Carsten },
  title = { A Mobile Software Quality Model },
  booktitle = { 12th International Conference on Quality Software
(QSIC),
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proceedings; [including workshop papers] / technical
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Xi'an,
  Shaanxi (Peoples R China), 2012-08-27 - 2012-08-29 },
  doi = { 10.1109/QSIC.2012.49 },
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}
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[FSK12]

[PDFBIB](#)

Franke, D., Schommer, J., and Kowalewski, S., "Softwarequalität in der Mobilen Welt: Testen von Lebenszyklen Mobiler Applikationen", in *Proc. Embedded Software Engineering Kongress (ESE)*, 2012, ELEKTRONIKPRAXIS, pp. 478-482.

Softwarequalität in der Mobilen Welt: Testen von Lebenszyklen Mobiler Applikationen

Bibtex entry :

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@inproceedings { FSK12,
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Bibtex entry :

```
@inproceedings { FTK12,
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http://www.thinkmind.org/index.php?view=article&articleid=valid_2012_1_
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An integrated vision aided GPS/INS Navigation System for ultra-low-cost MAVs

Bibtex entry :

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@inproceedings { GDF+12,
  author = { Gathmann, Felix and Dernehl, Christian and Franke,
Dominik
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title = { An integrated vision aided GPS/INS Navigation System for
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Bibtex entry :

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@inproceedings { KFS+12,
  author = { Kalkov, Igor and Franke, Dominik and Schommer, John F.
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            Kowalewski, Stefan },
  title = { A Real-time Extension to the Android Platform },
  booktitle = { JTRES 2012 : proceedings of the 10th International
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              on Java Technologies for Real-time and Embedded Systems,
              October 24-26, 2012, Copenhagen, Denmark / Andy Wellings ... },
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  author = { Schommer, John F. and Franke, Dominik and Lange, Tim and
    Kowalewski, Stefan },
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  booktitle = { 2012 IEEE 36th Annual Computer Software and
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  Conference workshops (COMPSACW 2012) : Izmir, Turkey, 16 -
  20 July 2012 / [sponsored by IEEE; IEEE Computer Society.
  Ed.: Xiaoying Bai ...] },
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[DFD+11]

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[FDW+11]

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  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten
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  Elektrofahrzeuge auf Basis von OpenStreetMap-Daten },
  booktitle = { Anwenderkonferenz f{"u}r Freie und Open Source
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  5. - 7. April, 2011 },
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  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten
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  title = { Konzept eines Mobilen OSM-Navigationssystems f{"u}r
  Elektrofahrzeuge },
  booktitle = { Angewandte Geoinformatik 2011 - Beitr{"a}ge zum 23.
  AGIT-Symposium (AGIT) },
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  author = { Franke, Dominik and Elsemann, Corinna and Weise, Carsten
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  pages = { 283-292 },
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[FW11]

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  author = { Franke, Dominik and Weise, Carsten },
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  Software Testing, Verification, and Validation ; Berlin,
  Germany, 21-25 March 2011 / Spons. by IEEE Computer
  Society. Ed. by Lisa O'Conner },
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[MWF+11]

[PDFBIB](#)

Mitsching, R., Weise, C., Franke, D., Gerlitz, T., and Kowalewski, S., "Coping with Complexity of Testing Models for Real-Time Embedded Systems", in *Proc. 2011 Fifth International Conference on Secure Software Integration and Reliability Improvement - Companion : SSIRI-C 2011 ; 27-29 June 2011, Jeju Island, Korea, Los Alamitos, 2011, IEEE*, pp. 128-135.

Coping with Complexity of Testing Models for Real-Time Embedded Systems

Bibtex entry :

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  author = { Mitsching, Ralf and Weise, Carsten and Franke, Dominik
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url = { http://publications.rwth-aachen.de/record/123848 },
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[FK10]

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Bibtex entry :

```

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  author = { Franke, Dominik and Kowalewski, Stefan },
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          Einsatz in zeitkritischen Systemen },
  booktitle = { Informatiktage 2010 : Fachwissenschaftlicher
          Informatik-Kongress, 19. und 20. März 2010, B-IT
          Bonn-Aachen International Center for Information Technology
          in Bonn / Gesellschaft für Informatik (Hrsg.). [Red.:
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  publisher = { Ges. für Informatik e.V. (GI) },
  pages = { 165-168 },
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[SFK+09]

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Evaluation of the real-time Java runtime environment for deployment in time-critical systems

Bibtex entry :

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@inproceedings { SFK+09,
  author = { Schommer, John F. and Franke, Dominik and Kowalewski,
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Real-Time and Embedded Systems : JTRES 09 ; Universidad
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September 2009, Madrid, Spain / Workshop Chair: M. Teresa
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Abschlussarbeiten

Offen

- auf Nachfrage

In Bearbeitung

Abgeschlossen

- [Integration von Informationen über die Bodenbeschaffenheit in das eNav System](#) (Masterarbeit, Bearbeiter: D. Dzafic)
- [Entwicklung eines Testframeworks für Lebenszyklus-Eigenschaften mobiler Applikationen](#) (Diplomarbeit, Bearbeiter: A. Weigelt)
- [Specifying Life Cycle Requirements for mobile Applications](#) (Diplomarbeit, Bearbeiter: S. Hempel)
- [Integration des eNav Routing Algorithmus in einen OSM Server](#) (Bachelorarbeit, Bearbeiter: D. Baumeister)
- [iOS-Extension to the Higgs Framework](#) (Bachelorarbeit, Bearbeiter: D. Forster)
- [Test und Stabilisierung von RTAndroid](#) (Masterarbeit, Bearbeiter: T. Gerlitz)
- [Steuerung einer Fertigungsanlage mit RTAndroid](#) (Bachelorarbeit, Bearbeiter: D. Thönnessen)
- [Reverse Engineering des Windows Phone Process Execution Models](#) (Bachelorarbeit, Bearbeiter: N. Hansen)
- [Concept and Prototype of a Mobile Cross-Device Test Framework](#) (Diplomarbeit, Bearbeiter: R. Mathes)
- [Erweiterung eines Tools zur Analyse von Lebenszyklusmodellen von Android-Applikationen](#) (Bachelorarbeit, Bearbeiter: T. Royé)
- [Development of an Autonomous Flight Control System for Micro Aerial Vehicles](#)
- [Untersuchung der Anwendbarkeit von Timed Hierarchies innerhalb der Signaltechnik](#)
- [Design and Integration of Real-Time into the Android Platform](#)
- [Analyse von Lebenszyklusmodellen mobiler Anwendungen](#)
- Entwicklung eines Implementierungsentwurfs für den Prototypen einer Softwaresimulation (Bachelorarbeit, Bearbeiter: T. Lange)
- Evaluierung des Ressourcen-Scheduling in zeit-heterogenen Systemen (Bachelorarbeit, Bearbeiter: D. Schmithausen)
- Charakterisierung und Einsatz von Onboard-Zeitgebern (Diplomarbeit, Bearbeiter: D. Losch)
- [Testing Lifecycle Implementations of Mobile Applications](#)
- [Entwicklung und Evaluierung eines Navigationssystems für Elektromotoren](#)

Lehre

Semester	Titel	Art
Sommersemester 2013	Evaluierung eines Testframeworks für Lebenszyklen mobiler Applikationen	Praktikum
Wintersemester 12/13	Entwurfs- und Programmierkonzepte mobiler Applikationen	Proseminar
Sommersemester 2012	Systemprogrammierung	Praktikum
Wintersemester 11/12	Testen Mobiler Applikationen	Seminar
Sommersemester 2011	Systemprogrammierung	Praktikum
Wintersemester 10/11	Einführung in die Technische Informatik	V/Ü
Wintersemester 10/11	Design Pattern für Mobile Eingebettete Systeme	Proseminar
Sommersemester 2010	Elektrotechnische Grundlagen der Informatik	Praktikum
Wintersemester 09/10	Einführung in die technische Informatik	V/Ü

Sprechstunde

Nach Vereinbarung.

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