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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 :

```
@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 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2018-222675 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/720210 },  
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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  
    and Franke, Dominik and Kowalewski, Stefan },  
  title = { Multimodales Dynamisches Routen mit eNav },  
  booktitle = { agit_2017 geospatialonline / Herausgeber: Prof. Dr.  
  Josef  
    Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof.  
    Dr. Thomas Blaschke },  
  publisher = { Wichmann },
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pages = { 278-287 },
series = { AGIT : Journal f{"u}r angewandte Geoinformatik },
year = { 2017 },
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organization = { 29. Symposium f{"u}r Angewandte Geoinformatik,
Salzburg
(Austria), 2017-07-05 - 2017-07-07 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236300 },
cin = { 122810 / 120000 / 414110 },
url = { http://publications.rwth-aachen.de/record/752276 },
}

```

[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 },
  title = { Multimodal Dynamic Routing for Wheelchairs and
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 },
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  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,  
    Pierre and Franke, Dominik and Kowalewski, Stefan },  
  title = { Der Bodenbelag-Detektor des eNav-Systems },  
  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber:  
Prof. Dr.  
  Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner,  
  Prof. Dr. Thomas Blaschke },  
  publisher = { Wichmann, eine Marke der VDE Verlag GmbH },  
  pages = { 318-327 },  
  series = { AGIT : Journal f{"u}r Angewandte Geoinformatik },  
  year = { 2016 },  
  address = { Berlin },  
  organization = { 28. AGIT-Symposium, Salzburg (Austria), 2016-07-06  
-  
  2016-07-08 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2016-12052 },  
  cin = { 122810 / 120000 },  
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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 },  
  title = { Das Barrierenerkennungssystem von eNav },  
  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 },
    publisher = { Wichmann, eine Marke der VDE Verlag GmbH },
    pages = { 298-307 },
    series = { AGIT : Journal f{"u}r Angewandte Geoinformatik },
    year = { 2016 },
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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", *AGIT : Journal für Angewandte Geoinformatik*, vol. 1, pp. 516-522, 2015

Routing über Flächen mit SpiderWebGraph

Bibtex entry :

```

@article { DKF+15,
  author = { Dzafic, Dzenan and Klug, Stefan and Franke, Dominik and
    Kowalewski, Stefan },
  title = { Routing {"u}ber Fl{"a}chen mit SpiderWebGraph },
  journal = { AGIT : Journal f{"u}r Angewandte Geoinformatik },
  pages = { 516-522 },
  volume = { 1 },
  year = { 2015 },
  issn = { 2509-713X },
  organization = { Journal f{"u}r angewandte Geoinformatik 1-2015 },
  doi = { 10.14627/537557071 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2017-00133 },
  cin = { 122810 / 120000 },
  url = {
https://gispoint.de/fileadmin/user_upload/paper_gis_open/AGIT_2015/5375
57071.pdf },
}

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[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,  
  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 },  
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  http://publications.rwth-aachen.de/record/466122/files/466122.pdf },  
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```

[AFK+14]

[PDFBIB](#)

Armoush, A., Franke, D., Kalkov, I., and Kowalewski, S., "An Approach for Using Mobile Devices In Industrial Safety-Critical Embedded Systems", in *Proc. Mobile Computing, Applications, and Services : 5th International Conference, MobiCase 2013, Paris, France, November 7-8, 2013, Revised Selected Papers*, Cham, 2014 in Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, Springer, pp. 294-297.

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

Bibtex entry :

```
@inproceedings { 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 },  
  series = { Lecture Notes of the Institute for Computer Sciences,
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    Social-Informatics and Telecommunications Engineering },
    year = { 2014 },
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    organization = { Mobile Computing, Applications, and Services : 5th
        International Conference },
    doi = { 10.1007/978-3-319-05452-0_27 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-203202 },
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    url = { http://publications.rwth-aachen.de/record/225590 },
}

```

[DF14]

[PDFBIB](#)

Dzafic, D. and Franke, D., "Integration von Informationen über die Bodenbeschaffenheit in das eNav-System : [Zusammenfassung der] Masterarbeit", in *Proc. Informatiktage 2014 / Fachwissenschaftlicher Informatik-Kongress, 27. und 28. März 2014, Hasso-Plattner-Institut der Universität Potsdam ...*, Bonn, 2014 in GI-Edition : lecture notes in informatics / Seminars, Ges. für Informatik, pp. 123-126.

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

Bibtex entry :

```

@inproceedings { DF14,
    author = { Dzafic, Dzenan and Franke, Dominik },
    title = { Integration von Informationen {\u}ber die
        Bodenbeschaffenheit in das eNav-System : [Zusammenfassung
        der ] Masterarbeit },
    booktitle = { Informatiktage 2014 / Fachwissenschaftlicher
        Informatik-Kongress, 27. und 28. M{\a}rz 2014,
        Hasso-Plattner-Institut der Universit{"a}t Potsdam ... },
    publisher = { Ges. f{"u}r Informatik },
    pages = { 123-126 },
    series = { GI-Edition : lecture notes in informatics / Seminars },
    year = { 2014 },
    address = { Bonn },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-204904 },
    cin = { 120000 / 122810 },
    url = { http://publications.embedded.rwth-aachen.de/file/59 },
}

```

[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  
and  
  Kowalewski, Stefan },  
  title = { Integration von Bodenbelagsinformationen zum  
energieeffizienten Routen von Elektrorollst\u{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 },  
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  typ = { PUB:(DE-HGF)8 },  
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  url = { http://publications.embedded.rwth-aachen.de/file/5c },  
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```

[FK14]

[PDFBIB](#)

Franke, D. and Kowalewski, S., "Concept and Experiences on Using a Wiki-Based System for Software-Related Seminar Papers", in *Proc. 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.)*, Berlin [u.a.], 2014 in *Lecture notes in computer science*, Springer, pp. 140-146.

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

Bibtex entry :

```
@inproceedings { 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 },
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 },
reportid = { RWTH-CONV-202914 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/225247 },
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```

[DF13]

PDFBIB

Dzafic, D. and Franke, D., "Entwicklung und Evaluation eines Navigationssystems für Elektrorollstühle", in *Proc. Informatiktage 2013 : smart life - dank Informatik ; fachwissenschaftlicher Informatik-Kongress 22. und 23. März 2013 B-IT Bonn-Aachen International Center for Information Technology, Bonn / Gesellschaft für Informatik (Hrsg.)*. [Red.: Ludger Porada], Bonn, 2013 in GI-Edition : lecture notes in informatics, Gesellschaft für Informatik e.V., pp. 185-188.

Entwicklung und Evaluation eines Navigationssystems für Elektrorollstühle

Bibtex entry :

```

@inproceedings { 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 },
  series = { GI-Edition : lecture notes in informatics },
  year = { 2013 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203657 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226146 },
}

```

[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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energieeffizientes  
  3D-Routing },  
  booktitle = { Angewandte Geoinformatik 2013 : Beitr{"a}ge zum 25.  
  AGIT-Symposium Salzburg / Strobl ; Blaschke ; Griesebner ;  
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  publisher = { Wichmann },  
  pages = { 414-423 },  
  year = { 2013 },  
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  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/228156 },  
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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  
  Language and ptLTL },
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booktitle = { 2013 IEEE Sixth International Conference on Software
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              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 },
reportid = { RWTH-CONV-203748 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/226262 },
}

```

[GKS+13]

[PDFBIB](#)

Gerlitz, T., Kalkov, I., Schommer, J. F., Franke, D., and Kowalewski, S., "Non-Blocking Garbage Collection for Real-Time Android", in *Proc. 11th International Workshop on Java Technologies for Real-time and Embedded Systems : JTRES 2013 ; 9-10 October 2013, Karlsruhe, Germany*, New York, NY, 2013 in ACM Digital Library, ACM, pp. 108-117.

Non-Blocking Garbage Collection for Real-Time Android

Bibtex entry :

```

@inproceedings { 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 },
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  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", in *Proc. Informatiktage 2013 : smart life - dank Informatik ; fachwissenschaftlicher Informatik-Kongress 22. und 23. März 2013 B-IT Bonn-Aachen International Center for Information Technology, Bonn / Gesellschaft für Informatik (Hrsg.). [Red.: Ludger Porada]*, Bonn,

2013 in GI-Edition : lecture notes in informatics, Gesellschaft für Informatik e.V., pp. 83-86.

Reverse Engineering des Windows Phone Process Execution Models

Bibtex entry :

```
@inproceedings { HF13,  
  author = { Hansen, Norman and Franke, Dominik },  
  title = { Reverse Engineering des Windows Phone Process Execution  
    Models },  
  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 = { 83-86 },  
  series = { GI-Edition : lecture notes in informatics },  
  year = { 2013 },  
  address = { Bonn },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-204143 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/226725 },  
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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  
    Kowalewski, Stefan },  
  title = { Energieeffizientes Routing f{"u"}r Elektrorollst{"u"}hle  
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  booktitle = { 13. Aachener Kolloquium Mobilit{"a"}t und Stadt  
    (AMUS/ACMOTÉ) },  
  publisher = { RWTH Aachen },  
  pages = { 65-68 },  
  year = { 2012 },  
  typ = { PUB:(DE-HGF)7 },
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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 Situation Awareness and Situation Management (ISSASiM) : 3. - 7. September, Wien },
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[FKW+12]

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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]

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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 },
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Softwarequalität in der Mobilen Welt: Testen von Lebenszyklen Mobiler Applikationen

Bibtex entry :

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@inproceedings { FSK12,
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Stefan },
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AndroLIFT: A Tool for Android Application Life Cycles

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@inproceedings { FTK12,
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[GDF+12]

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An integrated vision aided GPS/INS Navigation System for ultra-low-cost MAVs

Bibtex entry :

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Dominik
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[KFS+12]

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Bibtex entry :

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    Kowalewski, Stefan },
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    October 24-26, 2012, Copenhagen, Denmark / Andy Wellings ... },
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[SFL+12]

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    author = { Schommer, John F. and Franke, Dominik and Lange, Tim and
    Kowalewski, Stefan },
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[DFD+11]

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[FDW+11]

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Bibtex entry :

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@inproceedings { FDW+11,  
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Konzept eines Mobilen OSM-Navigationssystems für Elektrofahrzeuge

Bibtex entry :

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  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten
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Elektrofahrzeuge },
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[FEW+11]

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Reverse Engineering of Mobile Application Lifecycles

Bibtex entry :

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@inproceedings { FEW+11,  
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  [proceedings] / [Technically co-sponsored by IEEE Computer  
  Society. Sponsored by Reengineering Forum; IEEE-CS Technical  
  Council on Software Engineering]. Ed.: Martin Pinzger },  
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[FW11]

[PDFBIB](#)

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Providing a Software Quality Framework for Testing of Mobile Applications

Bibtex entry :

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@inproceedings { FW11,  
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publisher = { IEEE },
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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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@inproceedings { MWF+11,
  author = { Mitsching, Ralf and Weise, Carsten and Franke, Dominik
and
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  title = { Coping with Complexity of Testing Models for Real-Time
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  booktitle = { 2011 Fifth International Conference on Secure
Software
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SSIRI-C 2011 ; 27-29 June 2011, Jeju Island, Korea },
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  pages = { 128-135 },
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  url = { http://publications.rwth-aachen.de/record/123848 },
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[FK10]

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Franke, D. and Kowalewski, S., "Verifikation der Java-Echtzeitfähigkeit für den Einsatz in zeitkritischen Systemen", in *Proc. 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.: Ludger Porada]*, Bonn, 2010 in GI-

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Bibtex entry :

```
@inproceedings { FK10,  
  author = { Franke, Dominik and Kowalewski, Stefan },  
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  booktitle = { Informatiktage 2010 : Fachwissenschaftlicher  
    Informatik-Kongress, 19. und 20. März 2010, B-IT  
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  publisher = { Ges. für Informatik e.V. (GI) },  
  pages = { 165-168 },  
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[SFK+09]

[PDFBIB](#)

Schommer, J. F., Franke, D., Kowalewski, S., and Weise, C., "Evaluation of the real-time Java runtime environment for deployment in time-critical systems", in *Proc. 7th International Workshop on Java Technologies for Real-Time and Embedded Systems : JTRES 09 ; Universidad Complutense de Madrid, Facultad de Informatica, 23-25 September 2009, Madrid, Spain / Workshop Chair: M. Teresa Higuera-Toledano ...*, Red Hook, NY, 2009 in ACM international conference proceedings series, Curran, pp. 51-60.

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

Bibtex entry :

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@inproceedings { SFK+09,  
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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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