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Kontakt



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Research Topics

- Software Quality of Mobile Embedded Systems
 - Android
 - iOS
 - Java ME
 - Windows Phone
- Real-time Systems
 - [Java Real-Time System](#)
 - [Erlang](#)

Projects

- [The UMIC Software Quality Initiative](#)
- [ENAV](#)
- [MAVerix - Participation in the IMAV \(International Micro Air Vehicle Competition\)](#)

Publications

[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 = { 9. 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", *AGIT : Journal für angewandte Geoinformatik*, vol. 2017, iss. 3, pp. 278-287, 2017

Multimodales Dynamisches Routen mit eNav

Bibtex entry :

```
@article { DWS+17,  
  author = { Dzafic, Dzenan and Wagener, Nicolas and Schoonbrood,  
    Peter  
      and Franke, Dominik and Kowalewski, Stefan },  
  title = { Multimodales Dynamisches Routen mit eNav },  
  journal = { AGIT : Journal für angewandte Geoinformatik },  
  publisher = { Wichmann },  
  pages = { 278-287 },  
  volume = { 2017 },  
  number = { 3 },  
  year = { 2017 },
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address = { Berlin ; Offenbach },
issn = { 2509-713X },
organization = { 29. Symposium f{"u}r Angewandte Geoinformatik,
Salzburg
(Austria), 2017-07-05 - 2017-07-07 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-236300 },
cin = { 122810 / 120000 / 414110 },
url = { http://publications.rwth-aachen.de/record/752276 },
}

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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 },
  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 },
  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,  
    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  
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      2016-07-08 },  
  typ = { PUB:(DE-HGF)7 },  
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  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 },  
  title = { Das Barrierenerkennungssystem von eNav },  
  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 },
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pages = { 298-307 },
series = { AGIT : Journal f{"u}r Angewandte Geoinformatik },
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-2016-12055 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/680872 },
}

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[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 },
}

```

[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 = { Achener Informatik-Berichte },  
  year = { 2015 },  
  address = { Aachen },  
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  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", 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,  
    Social-Informatics and Telecommunications Engineering },  
  year = { 2014 },  
  address = { Cham },  
  organization = { Mobile Computing, Applications, and Services : 5.
```

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    International Conference, Paris (France), 2013-11-07 -
    2013-11-08 },
    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 },
}

```

[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 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 },
  series = { GI-Edition : lecture notes in informatics / Seminars },
  year = { 2014 },
  address = { Bonn },
  organization = { Informatiktage 2014 / Fachwissenschaftlicher
    Informatik-Kongress, Potsdam (Germany), 2014-03-27 -
    2014-03-28 },
  typ = { PUB:(DE-HGF)7 },
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  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  
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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.] },  
  organization = { 26. AGIT-Symposium, Salzburg (Austria) },  
  typ = { PUB:(DE-HGF)8 },  
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  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", 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 },  
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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.] },
organization = { Information technology and open source:
applications for
    education, innovation, and sustainability, Thessaloniki
    (Greece), 2012-10-01 - 2012-10-02 },
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. Informatiktag 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 },
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    Elektrorollst{"u}hle },
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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
    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 },

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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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  title = { Modifikation des A*-Algorithmus f{"u"}r  
energieeffizientes  
  3D-Routing },  
  booktitle = { Angewandte Geoinformatik 2013 : Beitr{"a"}ge zum 25.  
  AGIT-Symposium Salzburg / Strobl ; Blaschke ; Griesebner ;  
  Zagel (Hrsg.) },  
  publisher = { Wichmann },  
  pages = { 414-423 },  
  year = { 2013 },  
  address = { Berlin ; Offenbach },  
  organization = { 25. AGIT-Symposium Salzburg, Salzburg (Austria) },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-205272 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/228156 },  
}
```

[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 },  
  booktitle = { 2013 IEEE Sixth International Conference on Software  
Testing, Verification and Validation Workshops (ICSTW),  
Luxembourg 18-22 March 2013 },  
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  pages = { 120-121 },  
  year = { 2013 },  
  address = { Piscataway, NJ },  
  organization = { 2013 IEEE Sixth International Conference on  
Software  
Testing, Verification and Validation Workshops (Luxembourg),  
2013-03-18 - 2013-03-22 },  
  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 },
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year = { 2013 },
address = { New York, NY },
organization = { Java-Technologien f{"u}r Echtzeit- und
eingebettete
    Systeme, Karlsruhe (Germany), 2013-10-09 - 2013-10-10 },
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 },
}
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[HF13]

[PDFBIB](#)

Hansen, N. and Franke, D., "Reverse Engineering des Windows Phone Process Execution Models", in *Proc. Informatiktag 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 = { Informatiktag 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 },
  organization = { Fachwissenschaftlicher Informatik-Kongress, Bonn
    (Germany),
    2013-03-22 - 2013-03-23 },
  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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(AMUS/ACMOTÉ) },  
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Bibtex entry :

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@inproceedings { FEK12,  
  author = { Franke, Dominik and Elsemann, Corinna and Kowalewski,  
Stefan },  
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Awareness and Situation Management, Vienna (Austria),
2012-09-03 - 2012-09-07 },
doi = { 10.1109/DEXA.2012.40 },
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  author = { Franke, Dominik and Kowalewski, Stefan and Weise, C. and
    Prakobkosol, N. },
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  organization = { 2012 IEEE Fifth International Conference on
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  author = { Franke, Dominik and Kowalewski, Stefan and Weise,
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    proceedings; [including workshop papers] / technical
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  publisher = { IEEE },
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Xi'an,
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Bibtex entry :

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Island (South Korea), 2011-06-27 - 2011-06-29 },
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[FK10]

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publisher = { Ges. für Informatik e.V. (GI) },
pages = { 165-168 },
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year = { 2010 },
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[SFK+09]

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Bibtex entry :

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Theses

Open

- on inquiry

Current

Finished

- [Integrating Surface Information into eNav](#) (Master Thesis, Student Worker: D. Dzafic)
- [Development of a Test Framework for Life Cycle-related Properties of Mobile Applications](#) (Diploma Thesis, Student Worker: A. Weigelt)
- [Specifying Life Cycle Requirements for mobile Applications](#) (Diploma Thesis, Student Worker: S. Hempel)
- [Integration of the eNav Routing Algorithm into an OSM Server](#) (Bachelor Thesis, Student Worker: D. Baumeister)
- [iOS-Extension to the Higgs Framework](#) (Bachelor Thesis, Student Worker: D. Forster)
- [Test and Stabilization of Real-time Android](#) (Master Thesis, Student Worker: T. Gerlitz)
- [Control of a Manufacturing Plant using Real-time Android](#) (Bachelor Thesis, Student Worker: D. Thönnessen)
- [Reverse Engineering of the Windows Phone Process Execution Model](#) (Bachelor Thesis, Student Worker: N. Hansen)
- [Concept and Prototype of a Mobile Cross-Device Test Framework](#) (Diploma Thesis, Student Worker: R. Mathes)
- [Tool Extension for Analysis of Android Application Life Cycle Models](#) (Bachelor Thesis, Student Worker: T. Royé)
- [Development of an Autonomous Flight Control System for Micro Aerial Vehicles](#) (Master Thesis, Student Worker: C. Dernehl)
- [Applying Timed Hierarchies to Signaling Equipment](#) (Diploma Thesis, Student Worker: M. Mijatovic)
- [Design and Integration of Real-Time into the Android Platform](#) (Master Thesis, Student Worker: I. Kalkov)
- [Analyzing Life Cycle Models of Mobile Applications](#) (Diploma Thesis, Student Worker: C. Elsemann)
- [Design of a Software Simulation Prototype](#) (Bachelor Thesis, Student Worker: T. Lange)
- [Evaluation of Ressource-Scheduling in Time-Heterogeneous Systems](#) (Bachelor Thesis, Student Worker: D. Schmithausen)
- [Characerization and Application of On-board Timers](#) (Diploma Thesis, Student Worker: D. Losch)
- [Testing Lifecycle Implementations of Mobile Applications](#) (Master Thesis, Student Worker: N. Prakobkosol)
- [Development and Evaluation of a Navigation System for Electric Wheel Chairs](#) (Bachelor Thesis, Student Worker: D. Dzafic)

Teaching

Semester	Title	Type
Summer Semester 2013	Evaluation of a Test Framework for Life Cycles of Mobile Applications	Practical Course
Winter Semester 12/13	Design and Programming Concepts for mobile Applications	Seminar
Summer Semester 2012	System Programming	Practical Course
Winter Semester 11/12	Testing Mobile Applications	Seminar
Summer Semester 2011	System Programming	Practical Course
Winter Semester 10/11	Einführung in die Technische Informatik	V/Ü
Winter Semester 10/11	Design Pattern for Mobile Embedded Systems	Proseminar
Summer Semester 2010	Elektrotechnische Grundlagen der Informatik	Practical Course
Winter Semester 09/10	Einführung in die Technische Informatik	V/Ü

Office Hours

On appointment.

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