

# Dr. rer. nat. Dominik Franke

## Kontakt



| Wissenschaftlicher Mitarbeiter  
franke[at]embedded[dot]rwth-aachen[dot]de

Tel. +49 241 80 21172  
Fax +49 241 80 22150

Adresse: Ahornstr. 55, 52074 Aachen, Germany  
Büro: Raum 2302 (Gebäude H)

## 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  
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  pages = { 133-150 },  
  series = { Advanced Technologies and Societal Change },  
  year = { 2017 },  
  address = { Cham ; s.l. },  
  organization = { 9th Congress on Ambient Assisted Living,  
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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,  
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  booktitle = { agit_2017 geospatialonline / Herausgeber: Prof. Dr.  
  Josef  
    Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof.  
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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,
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Peter
and Franke, Dominik and Kowalewski, Stefan },
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  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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[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,  
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  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber:  
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  Prof. Dr. Thomas Blaschke },  
  publisher = { Wichmann, eine Marke der VDE Verlag GmbH },  
  pages = { 318-327 },  
  series = { AGIT : Journal für Angewandte Geoinformatik },  
  year = { 2016 },  
  address = { Berlin },  
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  url = { http://publications.rwth-aachen.de/record/680869 },  
}
```

[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 },  
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    Prof. Dr. Thomas Blaschke },
    publisher = { Wichmann, eine Marke der VDE Verlag GmbH },
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}

```

[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 },
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  typ = { PUB:(DE-HGF)8 },
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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,

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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 = { Achener Informatik-Berichte },
  year = { 2015 },
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  typ = { PUB:(DE-HGF)11 },
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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 },
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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" 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 },
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    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 },
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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,
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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.) },
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pages = { 451-460 },
year = { 2014 },
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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 },
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  year = { 2014 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-642-54338-8_11 },
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  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 },
  typ = { PUB:(DE-HGF)8 },
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}
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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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  AGIT-Symposium Salzburg / Strobl ; Blaschke ; Griesebner ;
  Zagel (Hrsg.) },
publisher = { Wichmann },
pages = { 414-423 },
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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,
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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 },
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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 },  
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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" 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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  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;  
fachwissenschaftlicher Informatik-Kongress 22. und 23.  
M{"a"}rz 2013 B-IT Bonn-Aachen International Center for  
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  publisher = { Gesellschaft f{"u"}r Informatik e.V. },  
  pages = { 83-86 },  
  volume = { 12 },  
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  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  
},  
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  publisher = { RWTH Aachen },  
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  year = { 2012 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-CONV-236333 },  
  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  
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  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](#)

Franke, D., Kowalewski, S., and Weise, C., "A Mobile Software Quality Model", in *Proc. 12th*

*International Conference on Quality Software (QSIC), 2012 : Xi'an, Shaanxi, China, 27 - 29 August 2012 ; proceedings; [including workshop papers] / technical sponsor: IEEE Reliability Society. Ed. by Antony Tang ...*, Piscataway, NJ, 2012, IEEE, pp. 154-157.

## A Mobile Software Quality Model

### Bibtex entry :

```
@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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}
```

[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 :

```
@inproceedings { FSK12,  
  author = { Franke, Dominik and Schommer, John and Kowalewski,  
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  title = { Softwarequalit{"a}t in der Mobilen Welt: Testen von  
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pages = { 478-482 },
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}
```

[FTK12]

[PDFBIB](#)

Franke, D., Tobias, R., and Kowalewski, S., "AndroLIFT: A Tool for Android Application Life Cycles", in *Proc. 4th International Conference on Advances in System Testing and Validation Lifecycle (VALID)*, 2012, Xpert, pp. 28-33.

## AndroLIFT: A Tool for Android Application Life Cycles

### Bibtex entry :

```
@inproceedings { FTK12,
  author = { Franke, Dominik and Tobias, Royé and Kowalewski, Stefan },
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http://www.thinkmind.org/index.php?view=article&articleid=valid_2012_1_50_40107 },
}
```

[GDF+12]

[PDFBIB](#)

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

### Bibtex entry :

```
@inproceedings { GDF+12,
  author = { Gathmann, Felix and Dernehl, Christian and Franke, Dominik
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    and Kowalewski, Stefan },
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```

[KFS+12]

[PDFBIB](#)

Kalkov, I., Franke, D., Schommer, J. F., and Kowalewski, S., "A Real-time Extension to the Android Platform", in *Proc. JTRES 2012 : proceedings of the 10th International Workshop on Java Technologies for Real-time and Embedded Systems, October 24-26, 2012, Copenhagen, Denmark / Andy Wellings ...*, New York, N.Y., 2012 in ACM conference proceedings series, ACM Press, pp. 105-114.

## A Real-time Extension to the Android Platform

### Bibtex entry :

```
@inproceedings { KFS+12,
  author = { Kalkov, Igor and Franke, Dominik and Schommer, John F.
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  Kowalewski, Stefan },
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Workshop
  on Java Technologies for Real-time and Embedded Systems,
  October 24-26, 2012, Copenhagen, Denmark / Andy Wellings ... },
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[SFL+12]

[PDFBIB](#)

Schommer, J. F., Franke, D., Lange, T., and Kowalewski, S., "Load Balancing for Cross Layer Communication", in *Proc. 2012 IEEE 36th Annual Computer Software and Applications*



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## Load Balancing for Cross Layer Communication

### Bibtex entry :

```
@inproceedings { SFL+12,
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[DFD+11]

[PDFBIB](#)

Dernehl, C., Franke, D., Diab, H., and Kowalewski, S., "An Architecture with Integrated Image Processing for Autonomous Micro Aerial Vehicles", in *Proc. International Micro Air Vehicle conference and competitions 2011 (IMAV 2011)*, 't Harde, The Netherlands, September 12-15, 2011, 2011, IMAV, pp. 138-145.

## An Architecture with Integrated Image Processing for Autonomous Micro Aerial Vehicles

### Bibtex entry :

```
@inproceedings { DFD+11,
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```

[FDW+11]

[PDFBIB](#)

Franke, D., Dzafic, D., Weise, C., and Kowalewski, S., "Entwicklung eines mobilen Navigationssystems für Elektrofahrzeuge auf Basis von OpenStreetMap-Daten", in *Proc. Anwenderkonferenz für Freie und Open Source Software für Geoinformationssysteme : FOSSGIS 2011 ; Heidelberg, 5. - 7. April, 2011*, Heidelberg, 2011, pp. 92-99.

## Entwicklung eines mobilen Navigationssystems für Elektrofahrzeuge auf Basis von OpenStreetMap-Daten

### Bibtex entry :

```
@inproceedings { FDW+11,  
  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten  
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  Elektrofahrzeuge auf Basis von OpenStreetMap-Daten },  
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Software  
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  5. - 7. April, 2011 },  
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http://www.mapmedia.de/jthomsen/FOSSGIS_Tagungsband/2011_FOSSGIS_Tagung  
sband.pdf },  
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```

[FDW+11a]

[PDFBIB](#)

Franke, D., Dzafic, D., Weise, C., and Kowalewski, S., "Konzept eines Mobilen OSM-Navigationssystems für Elektrofahrzeuge", in *Proc. Angewandte Geoinformatik 2011 - Beiträge zum 23. AGIT-Symposium (AGIT)*, 2011, Wichmann Verlag, pp. 148-157.

# Konzept eines Mobilen OSM-Navigationssystems für Elektrofahrzeuge

## Bibtex entry :

```
@inproceedings { FDW+11a,
  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten
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[FEW+11]

[PDFBIB](#)

Franke, D., Elsemann, C., Weise, C., and Kowalewski, S., "Reverse Engineering of Mobile Application Lifecycles", in *Proc. 2011 18th Working Conference on Reverse Engineering (WCRE 2011) : Limerick, Ireland, 17 - 20 October 2011 ; [proceedings] / [Technically co-sponsored by IEEE Computer Society. Sponsored by Reengineering Forum; IEEE-CS Technical Council on Software Engineering]. Ed.: Martin Pinzger, Piscataway, NJ, 2011, IEEE, pp. 283-292.*

## Reverse Engineering of Mobile Application Lifecycles

### Bibtex entry :

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@inproceedings { FEW+11,
  author = { Franke, Dominik and Elsemann, Corinna and Weise, Carsten
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(WCRE
  2011) : Limerick, Ireland, 17 - 20 October 2011 ;
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```

[FW11]

[PDFBIB](#)

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## Providing a Software Quality Framework for Testing of Mobile Applications

### Bibtex entry :

```
@inproceedings { FW11,
  author = { Franke, Dominik and Weise, Carsten },
  title = { Providing a Software Quality Framework for Testing of
  Mobile
    Applications },
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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 :**

```
@inproceedings { MWF+11,
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  url = { http://publications.rwth-aachen.de/record/123848 },
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[FK10]

[PDFBIB](#)

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-Edition : Seminars, Ges. für Informatik e.V. (GI), pp. 165-168.

## Verifikation der Java-Echtzeitfähigkeit für den Einsatz in zeitkritischen Systemen

**Bibtex entry :**

```
@inproceedings { FK10,
  author = { Franke, Dominik and Kowalewski, Stefan },
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Einsatz in zeitkritischen Systemen },
  booktitle = { Informatiktage 2010 : Fachwissenschaftlicher
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Bonn-Aachen International Center for Information Technology
in Bonn / Gesellschaft für Informatik (Hrsg.) [Red.:
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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 :

```
@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	<a href="#">Evaluierung eines Testframeworks für Lebenszyklen mobiler Applikationen</a>	Praktikum
Wintersemester 12/13	<a href="#">Entwurfs- und Programmierkonzepte mobiler Applikationen</a>	Proseminar
Sommersemester 2012	<a href="#">Systemprogrammierung</a>	Praktikum
Wintersemester 11/12	<a href="#">Testen Mobiler Applikationen</a>	Seminar

Sommersemester 2011	<a href="#">Systemprogrammierung</a>	Praktikum
Wintersemester 10/11	<a href="#">Einführung in die Technische Informatik</a>	V/Ü
Wintersemester 10/11	<a href="#">Design Pattern für Mobile Eingebettete Systeme</a>	Proseminar
Sommersemester 2010	<a href="#">Elektrotechnische Grundlagen der Informatik</a>	Praktikum
Wintersemester 09/10	<a href="#">Einführung in die technische Informatik</a>	V/Ü

## Sprechstunde

Nach Vereinbarung.

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