

Dzenan Dzafic, M.Sc. RWTH



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Research topics

- Software development of driving assistance systems
 - OpenStreetMap
 - Energy efficient routing
 - Barrier-free routing
 - 3-dimensional map models

Office Hour

On Appointment

Projects

- [Navigation System for Wheelchairs](#)
- [CERM - Center for European Research on Mobility](#)
- [CiTi - Center for integrative Traffic investigation](#)
- [Aachen 2025](#)

Open thesis

- CiTi - Generation of traffic models for Vissim
- eNav - eNav Software's quality management
- CERM - development of wheelchaircontroller based on RealTime-Android

Thesis

In Progress

Finished

- eNav - Evaluation of eNav-Systems from users study
- CiTi - Generation of simulation models for Vissim via aerial photographs
 - eNav - Collision-Avoidance System for electric wheelchair
 - CiTi - Stop line detector
 - eNav - Combine ALS data with OSM to produce a 3D-map
 - CiTi - simulation generation of VISSIM via sketch
- [Development of a consistent A*-heuristic for eNav-routing](#)
 - eNav - Optimal subsets of point of interest
- [eNav - Development of a remote control for a wheelchair](#)
 - CERM - CERM data management via Ros
- [eNav development using PostgreSQL and evaluation](#)
- [eNav development using Neo4j](#)
 - CiTi - Generation Automatic Simulation for Vissim
- [Development of an HTML5-based Interface for the Mobile Navigation System eNav](#)
- [Barrier Detection for Navigation System "eNav"](#)
- [Integration of Opening Hours in Navigation System "eNav"](#)
- [Smartphone App for Surface-Detection](#)
- [Integration of the public transport system in eNav](#)
- eNav - Examination of the accessibility of street areas using smartband technology at the application example of Pontstraße in Aachen
- [eNav - Integration of ÖPNV in eNav](#)

Awards

year	price
2017	the Best Paper Award of the 8th International Conference on Digital Human Modeling and applications in Health, Safety, Ergonomics and Risk Management
2015	VdK Preis - vilma (vorbildlich, individuell, leistungsstark, motiviert im Arbeitsleben)
2014	Beachtenswerter Lebensweg von Menschen mit Behinderung
2014	Menschen 2013

Publications

[DCC20]

[PDFBIB](#)

Dzafig, D., Candiotti, J. L., and Cooper, R. A., "Improving wheelchair route planning through instrumentation and navigation systems", in *Proc. 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society in conjunction with the 43rd Annual Conference of the Canadian Medical and Biological Engineering Society : July 20-24, 2020 via the EMBS Virtual Academy / IEEE, EMB ; conference chairs: Mohamad Sawan (Westlake University), Carolyn McGregor AM (Ontario Tech University), Atam Dhawan (NJIT), Piscataway, NJ, 2020, IEEE, pp. 5737-5740.*

Improving wheelchair route planning through instrumentation and navigation systems

Bibtex entry :

```
@inproceedings { DCC20,
  author = { Dzafic, Dzenan and Candiotti, Jorge L. and Cooper, Rory A. },
  title = { Improving wheelchair route planning through instrumentation and navigation systems },
  booktitle = { 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society in conjunction with the 43rd Annual Conference of the Canadian Medical and Biological Engineering Society : July 20-24, 2020 via the EMBS Virtual Academy / IEEE, EMB ; conference chairs: Mohamad Sawan (Westlake University), Carolyn McGregor AM (Ontario Tech University), Atam Dhawan (NJIT) },
  publisher = { IEEE },
  pages = { 5737-5740 },
  year = { 2020 },
  address = { Piscataway, NJ },
  organization = { 42. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, online, 2020-07-20 - 2020-07-24 },
  doi = { 10.1109/EMBC44109.2020.9176481 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2021-02927 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/816058 },
}
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[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 },
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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 },  
}
```

[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 f{"u"}r angewandte Geoinformatik },  
publisher = { Wichmann },  
pages = { 278-287 },  
volume = { 2017 },  
number = { 3 },  
year = { 2017 },  
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 },  
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cin = { 122810 / 120000 / 414110 },  
url = { http://publications.rwth-aachen.de/record/752276 },  
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}
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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 },  
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  url = { http://publications.rwth-aachen.de/record/752277 },  
}
```

[SPD+17]

[PDFBIB](#)

Schmidt, T., Philipsen, R., Dzafic, D., and Ziefle, M., "Watch Out! : User-Centered Feedback Design for a V2X-Smartphone App", in *Proc. Digital Human Modeling. Applications in Health, Safety, Ergonomics, and Risk Management: Health and Safety : 8th International Conference, DHM 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part II / edited by Vincent G. Duffy*, Cham, 2017 in Lecture Notes in Computer Science, Springer International Publishing, pp. 365-383.

Watch Out! : User-Centered Feedback Design for a V2X-Smartphone App

Bibtex entry :

```
@inproceedings { SPD+17,
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```
author = { Schmidt, Teresa and Philipsen, Ralf and Dzafic, Dzenan
and
    Ziefle, Martina },
title = { Watch Out! : User-Centered Feedback Design for a
    V2X-Smartphone App },
booktitle = { Digital Human Modeling. Applications in Health,
Safety,
    Ergonomics, and Risk Management: Health and Safety : 8th
    International Conference, DHM 2017, Held as Part of HCI
    International 2017, Vancouver, BC, Canada, July 9-14, 2017,
    Proceedings, Part II / edited by Vincent G. Duffy },
publisher = { Springer International Publishing },
pages = { 365-383 },
series = { Lecture Notes in Computer Science },
year = { 2017 },
address = { Cham },
organization = { 8. International Conference on Digital Human
Modeling and
    Applications in Health, Safety, Ergonomics and Risk
    Management, Vancouver (Canada), 2017-07-09 - 2017-07-14 },
doi = { 10.1007/978-3-319-58466-9_33 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-222740 },
cin = { 792310 / 080013 / 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/720296 },
}
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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 },
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year = { 2016 },
address = { Berlin },
organization = { 28. AGIT-Symposium, Salzburg (Austria), 2016-07-06
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typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2016-12052 },
cin = { 122810 / 120000 },
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 },
  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 = { 298-307 },
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  address = { Berlin },
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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 },  
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  cin = { 122810 / 120000 },  
  url = {  
https://gispoint.de/fileadmin/user_upload/paper_gis_open/AGIT_2015/5375  
57071.pdf },  
}
```

[DBB+14]

[PDFBIB](#)

Dzafic, D., Bitsch, &. Jó., Baumeister, D., Kowalewski, S., and Wehrle, K., "Towards an Indoor Traffic Report - Requirements for Dynamic Route Planning for Wheelchair Users", in *Proc. International Conference on Indoor Positioning and Indoor Navigation (IPIN)*, 2012 : 13 - 15 Nov. 2012, Sydney, Australia ; conference proceedings / organized by UNSW Australia, the University of New South Wales, Australia. Ed. by Chris Rizos ..., Piscataway, NJ, 2014, IEEE.

Towards an Indoor Traffic Report - Requirements for Dynamic Route Planning for Wheelchair Users

Bibtex entry :

```
@inproceedings { DBB+14,  
  author = { Dzafic, Dzenan and Bitsch, Jó Ágila and Baumeister,  
Danni  
            and Kowalewski, Stefan and Wehrle, Klaus },  
  title = { Towards an Indoor Traffic Report - Requirements for  
Dynamic  
            Route Planning for Wheelchair Users },  
  booktitle = { International Conference on Indoor Positioning and  
Indoor  
            Navigation (IPIN), 2012 : 13 - 15 Nov. 2012, Sydney,  
Australia ; conference proceedings / organized by UNSW  
Australia, the University of New South Wales, Australia. Ed.  
by Chris Rizos ... },
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publisher = { IEEE },
year = { 2014 },
address = { Piscataway, NJ },
organization = { 5. International Conference on Indoor Positioning
and Indoor
    Navigation, Busan (South Korea), 2014-10-27 - 2014-10-30 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-2015-00727 },
cin = { 122810 / 121710 / 120000 },
url = { http://publications.rwth-aachen.de/record/462817 },
}

```

[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 },
  organization = { Informatiktage 2014 / Fachwissenschaftlicher
    Informatik-Kongress, Potsdam (Germany), 2014-03-27 -
    2014-03-28 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-204904 },
  cin = { 120000 / 122810 },
  url = { http://publications.embedded.rwth-aachen.de/file/59 },
}

```

[DFB+14]

[PDFBIB](#)

Dzafig, 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 = { Dzafig, Dzenan and Franke, Dominik and Baumeister, Danni  
and  
  Kowalewski, Stefan },  
  title = { Integration von Bodenbelagsinformationen zum  
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 },  
  reportid = { RWTH-CONV-205745 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.embedded.rwth-aachen.de/file/5c },  
}
```

[DF13]

[PDFBIB](#)

Dzafig, 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 = { Dzafig, Dzenan and Franke, Dominik },  
  title = { Entwicklung und Evaluation eines Navigationssystems  
f{\\"u}r  
  Elektrorollst{\\"u}hle },
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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
               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 },
organization = { Informatiktage 2013, Bonn (Germany), 2013-03-22 -
2013-03-23 },
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 ;
            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 },
}

```

[FDB+12]

[PDF](#)[BIB](#)

Franke, D., Dzafic, D., Baumeister, D., and Kowalewski, S., "Energieeffizientes Routing für Elektrorollstühle", in *Proc. 13. Aachener Kolloquium Mobilität und Stadt (AMUS/ACMOTe)*, 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
},
  booktitle = { 13. Aachener Kolloquium Mobilit{"a}t und Stadt
(AMUS/ACMOTe) },
  publisher = { RWTH Aachen },
  pages = { 65-68 },
  year = { 2012 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236333 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752300 },
}
```

[FDW+11]

[PDF](#)[BIB](#)

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
and
  Kowalewski, Stefan },
  title = { Entwicklung eines mobilen Navigationssystems f{"u}r
Elektrofahrzeuge auf Basis von OpenStreetMap-Daten },
  booktitle = { Anwenderkonferenz f{"u}r Freie und Open Source
Software
f{"u}r Geoinformationssysteme : FOSSGIS 2011 ; Heidelberg,
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pages = { 92-99 },
year = { 2011 },
address = { Heidelberg },
organization = { Anwenderkonferenz f{"u}r Freie und Open Source
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    2011-04-05 - 2011-04-07 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-194738 },
cin = { 122810 / 120000 },
url = {
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
and
    Kowalewski, Stefan },
  title = { Konzept eines Mobilen OSM-Navigationssystems f{"u}r
    Elektrofahrzeuge },
  booktitle = { Angewandte Geoinformatik 2011 - Beitr{"a}ge zum 23.
    AGIT-Symposium (AGIT) },
  publisher = { Wichmann Verlag },
  pages = { 148-157 },
  year = { 2011 },
  organization = { Angewandte Geoinformatik 2011 - 23. AGIT-
Symposium },
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