

# Marco Grochowski, M.Sc. RWTH

## Contact

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## Office Hour

On Appointment

## Teaching

Semester	Titel	Art
Wintersemester 18/19	<a href="#">Cyber-Physische Systeme in Medizintechnik und Mobilität</a>	S
	<a href="#">Modellbasiertes Testen &amp; Analyse eingebetteter Software</a>	S
	<a href="#">Formale und semiformale Methoden für eingebettete Software</a>	S
	<a href="#">Proseminar: Grundlagen eingebetteter Systeme</a>	S
	<a href="#">Praktikum Systemprogrammierung (Versuch 1)</a>	P
Sommersemester 18	<a href="#">Entwicklung NXT gesteuerter LEGO-Fahrzeuge mit Java</a>	P
	<a href="#">Formale und semiformale Methoden für eingebettete Software</a>	S
	<a href="#">Praktikum Systemprogrammierung (Versuch 1)</a>	P

## Publications

[GSA+18]

[PDFBIB](#)

Grochowski, M., Schweigler, M., Alrifaae, B., and Kowalewski, S., "A GPS-aided Inertial Navigation System for Vehicular Navigation using a Smartphone", *IFAC-PapersOnLine*, vol. 51, iss. 10, pp. 121-126, 2018

# A GPS-aided Inertial Navigation System for Vehicular Navigation using a Smartphone

## Bibtex entry :

```
@article { GSA+18,  
  author = { Grochowski, Marco and Schweigler, Martin and Alrifaae,  
            Bassam and Kowalewski, Stefan },  
  title = { A GPS-aided Inertial Navigation System for Vehicular  
            Navigation using a Smartphone },  
  journal = { IFAC-PapersOnLine },  
  pages = { 121-126 },  
  volume = { 51 },  
  number = { 10 },  
  year = { 2018 },  
  address = { Laxenburg },  
  issn = { 2405-8963 },  
  organization = { 3rd IFAC Conference on Embedded Systems,  
Computational  
  Intelligence and Telematics in Control, Farod (Portugal),  
  2018-06-06 - 2018-06-08 },  
  doi = { 10.1016/j.ifacol.2018.06.247 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2018-227583 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/731577 },  
}
```

[SGT+18]

[PDFBIB](#)

Schweigler, M., Grochowski, M., Tamrakar, S., and Kowalewski, S., "Ground Surface Pattern Recognition with Hidden Markov Models for Low Cost Positioning Improvement", in *Proc. 8th International Conference on Pattern Recognition Systems (ICPRS 2017) : 11-13 July 2017*, [Stevenage], 2018, IET, pp. 1-6.

# Ground Surface Pattern Recognition with Hidden Markov Models for Low Cost Positioning Improvement

## Bibtex entry :

```
@inproceedings { SGT+18,  
  author = { Schweigler, Martin and Grochowski, Marco and Tamrakar,  
Sujan  
  and Kowalewski, Stefan },  
  title = { Ground Surface Pattern Recognition with Hidden Markov  
Models  
  for Low Cost Positioning Improvement },  
  booktitle = { 8th International Conference on Pattern Recognition  
Systems
```

```
(ICPRS 2017) : 11-13 July 2017 },
publisher = { IET },
pages = { 1-6 },
year = { 2018 },
address = { [Stevenage] },
organization = { 8th International Conference of Pattern
Recognition Systems,
    Madrid (Spain), 2017-07-11 - 2017-07-13 },
doi = { 10.1049/cp.2017.0166 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236283 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752258 },
}
```

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<https://embedded.rwth-aachen.de/doku.php?id=en:lehrstuhl:mitarbeiter:grochowski>

Last update: **2018/09/26 11:43**

