



Current position

Full Professor at Institute for Theoretical Informatics (ITI), KIT (since 2003)

Previous positions (two selected)

Full Professor for Practical Computer Science, University Konstanz, Germany (1994 – 2003)

Acting Professor, Martin-Luther-University Halle-Wittenberg, Germany (1993)

Scientific degrees

Habilitation, TU Berlin (1992)

Dr. rer. nat. (PhD) in Mathematics, RWTH Aachen University, Germany (1986)

Diploma in Mathematics, RWTH Aachen University, Germany (1983)

Recent research topics

Algorithm engineering, graph algorithms and combinatorial optimization with a focus on energy systems, traffic optimization, social network analysis and network visualization

Awards, honors, memberships

Werner Heisenberg medal of the Alexander von Humboldt Foundation (2018), Member of the National Academy of Science and Engineering – acatech (2016), Member of the German Council of Science and Humanities (2015), Member of Academia Europaea (2013), Google Focused Research Award (2012), Vice President of the German Research Foundation (2007-2014)

Publications (5 most important)

- M. Baum, J. Dibbelt, A. Gamsa, **D. Wagner**, T. Zündorf, Shortest Feasible Paths with Charging Stops for Battery Electric Vehicles, accepted for publication in *J. Transportation SCI*, to appear 2019
- A. Grastien, I. Rutter, **D. Wagner**, **F. Wegner**, **M. Wolf**, The Maximum Transmission Switching Flow Problem, *e-Energy`18 Proceedings* 340 (2018) [doi: 10.1145/3208903.3208910](https://doi.org/10.1145/3208903.3208910)
- L. Barth, **V. Hagenmeyer**, N. Ludwig, **D. Wagner**, How much demand side flexibility do we need,?: Analyzing where to exploit flexibility in industrial processes, *e-Energy`18 Proceedings* 43 (2018) [doi: 10.1145/3208903.3208909](https://doi.org/10.1145/3208903.3208909)
- **T. Leibfried**, T. Mchedlidze, N. Meyer-Hübner, **D. Wagner**, **F. Wegner** et al., Operating Power Grids with Few Flow Control Buses, *e-Energy`15 Proceedings* 289 (2015) [doi: 10.1145/2768510.2768521](https://doi.org/10.1145/2768510.2768521)
- H. Bast, D. Delling, A. Goldberg, M. Müller-Hannemann, **D. Wagner** et al., Route Planning in Transportation Networks, *Algorithm Engineering, LNCS volume 9220* 19 (2016) [doi: 10.1007/978-3-319-49487-6_2](https://doi.org/10.1007/978-3-319-49487-6_2)