

CV – Prof. Dr. Veit Hagenmeyer

Director of Institute for Applied Informatics (IAI) Karlsruhe Institute of Technology

Born on 06.10.1971

Nationality German

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Academic Degrees

- 1998-2002 PhD student at Laboratoire des Signaux et Systèmes (L2S), C.N.R.S.-Supélec-Université Paris-Sud (France)
- 2002 Postdoc at L2S, C.N.R.S.-Supélec-Université Paris-Sud (France)
- 2003 Postdoc at Institut für Systemdynamik und Regelungstechnik, Universität Stuttgart (Germany)
- 2003-2006 Research Engineer in the Advanced Process Control Group, BASF SE, Ludwigshafen (Germany)
- 2007-2008 Head of the Advanced Process Control Group, BASF SE in Ludwigshafen (Germany)
- 2008-2009 Senior Consultant for Verbund Simulation of BASF sites in Europe
- 2009-2010 Personal Assistant to the European Site Manager Europe (Level 2 of BASF Group)
- 2010-2014 Power Plant director of BASF in Ludwigshafen (3 power plants & energy grids)
- Since 2014 Director at Institute of Applied Computer Science of KIT (Karlsruhe, Germany) and Full Professor for Energy Informatics, Faculty of Informatics, KIT (Karlsruhe, Germany)

Fellowships, Awards, and Honors

- 2016 Best Lecture Award of the Faculty of Informatics, KIT
- 2009 BASF Innovation Awards 2009, Finalist Award
- 2006 Participation Award 2006 of the Lindau Meetings of Nobel Laureates
- 2005 Eugen-Hartmann-Award of VDI (Verein Deutscher Ingenieure / Association of German Engineers)
- 1998-2001 Scholar of the German Academic Exchange Service (DAAD) and the German National Merit Foundation (Studienstiftung des deutschen Volkes)
- 1998, 1994 Awards for best of class in Engineering Cybernetics (Diplom & Vordiplom)
- 1996-1997 Fulbright Scholarship at University of California at Berkeley
- 1993-1998 Scholar of the German National Merit Foundation (Studienstiftung des deutschen Volkes)

Ten most important publications

1. Hagenmeyer, V.; Cakmak, H. K.; Döpmeier, C.; Faulwasser, T.; Isele, J.; Keller, H. B.; Kohlhepp, P.; Kühnapfel, U.; Stucky, U.; Waczowicz, S.; Mikut, R.: Information and communication technology in energy lab 2.0: Smart energies system simulation and control center with an open-street-map-based power flow simulation example. *Energy Technology*, 4 (1), 145-162, 2016.
2. C. Döpmeier, K. Stucky, R. Mikut, V. Hagenmeyer: A Concept for the Control, Monitoring and Visualization Center in Energy Lab 2.0. *Energy Informatics*, Vol. 9424 of the series Lecture Notes in Computer Science, pp. 83-94, Springer, 2016.
3. Waczowicz, S., Reischl, M., Klaiber, S., Bretschneider, P., Konotop, I., Westermann, D., Hagenmeyer, V. and Mikut, R. Virtual Storages as Theoretically Motivated Demand Response Models for Enhanced Smart Grid Operations. *Energy Technology*, 4: 163–176, 2016.
4. J.-F. Stumper, V. Hagenmeyer; S. Kuehl; R. Kennel: Deadbeat Control for Electrical Drives: A Robust and Performant Design Based on Differential Flatness. *IEEE Trans. Power El.*, 30 (8), pp. 4585 – 4596, 2015
5. H. Maaß, H. Cakmak, F. Bach, R. Mikut, A. Harrabi, W. Süß, W. Jakob, K. Stucky, U. Kühnapfel and V. Hagenmeyer: Data processing of high-rate low-voltage distribution grid recordings for smart grid monitoring and analysis. *EURASIP Journal on Advances in Signal Processing*, 14, 2015
6. H. Çakmak, H. Maass, F. Bach, U. Kühnapfel, V. Hagenmeyer: Ein Ansatz zur automatisierten Erstellung umfangreicher und komplexer Simulationsmodelle für elektrische Übertragungsnetze aus OpenStreetMap-Daten / An attempt for fully automated generation of large-scale and complex simulation models for electrical transmission networks derived from OpenStreetMap data. *at – Automatisierungstechnik*, 63(11), 911–925, 2015
7. S. Waczowicz, M. Reischl, V. Hagenmeyer, R. Mikut: Demand response clustering - How do dynamic prices affect household electricity consumption? *Proc. IEEE PowerTech*, 1- 6, 2015
8. T. Faulwasser, V. Hagenmeyer, and R. Findeisen. Constrained reachability and trajectory generation for flat systems. *Automatica*, 50:1151-1159, 2014.
9. M. Treuer, T. Weissbach, and V. Hagenmeyer. Flatness-based feedforward in a two-degree-of-freedom control of a pumped storage power station. *IEEE Trans. Contr. Sys. Tech.*, 19:1540-1548, 2011.
10. V. Hagenmeyer and E. Delaleau. Robustness analysis with respect to exogenous perturbations for flatness-based exact feedforward linearization. *IEEE Trans. Automatic Control*, 55:727-731, 2010.