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## Curriculum Vitae

### **Research and Industry Experience**

Head, Control Laboratory of the Chair of Control Engineering, University of the Federal Armed Forces Munich, Munich, Germany, since 2011.

Researcher, Universities of Magdeburg and Kassel, TU Berlin, Germany, 2003-2011.

Postdoctoral Research Fellow, Massachusetts Institute of Technology, Cambridge, MA, U.S.A., 2000-2002.

Development Engineer, Infineon Technologies, Corporate Research Division, Munich, Germany, 1999-2000.

Researcher, TU Dresden, Dresden, Germany, 1995-1998.

### **Education**

Facultas docendi and Venia legendi in Systems Theory, TU Berlin, 2009

Dr.-Ing. in Electrical Engineering (summa cum laude), TU Dresden, 1998

Dipl.-Math. in Mathematics (with distinction), TU Dresden, 1995

Dipl.-Ing. in Electrical Engineering (with distinction), TU Dresden, 1991

### **Selected Publications** (See also [WWW](#).)

Computing abstractions of nonlinear systems, *IEEE Trans. Automat. Control*, vol. 56, 2011, pp. 2583–2598.

On singularities of autonomous implicit ordinary differential equations, *IEEE Trans. Circuits Syst. I*, vol. 50, 2003, pp. 922-931.

Differential-Algebraic Equations of index 1 may have an arbitrarily high structural index, *SIAM J. Sci. Comput.*, vol. 21, 2000, pp. 1987-1990.

Systolic array for the simulation of Lotka–Volterra–Systems, Patent DD 288 911, Nov. 3, 1989.

### **Teaching Experience** (See also [WWW](#).)

“Discrete Methods for Analysis and Control of Continuous Processes”, Spring 2010

“Consensus and Cooperation in Networked Dynamic Systems”, Spring 2009

“Communication and Control”, Spring 2008

“Nonlinear Dynamical Systems”, Fall 2003, 2005, 2006, 2007, 2008

“Structural Systems and Control Theory”, Fall 2004, Spring 2007

“Signals and Systems”, Spring 2004, 2005