

## Curriculum Vitae

### Adeline M. Uhrmacher

#### Professional data:

- since 2000 Professor of Modelling and Simulation, University Rostock
- 2000 Habilitation in Computer Science, School of Computer Science, University Ulm: Agent-Oriented Simulation
- 1994-2000 Senior researcher, Artificial Intelligence Laboratory, University Ulm
- 1993-1994 Feodor Lynen Scholarship, Alexander von Humboldt Foundation
- 1992-1994 Postdoc position, University of Arizona, Tucson
- 1992 PhD in Computer Science, University Koblenz-Landau: An extended modeling system for ecological systems
- 1990-1992 PhD scholarship of the *Otto-Braun-Fonds*, University Kassel
- 1987-1989 Scientific researcher, Environmental Research Group, University Kassel
- 1981-1987 Study of Computer Science (Diplom-Informatikerin), University Koblenz-Landau

#### Memberships, offices, and awards:

- since 2013 Liaison Professor of the DFG at the University of Rostock
- Editor in Chief: ACM: Transactions of Modeling and Computer Simulation - TOMACS (since 2013), SIMULATION - Transactions of the SCS (2000-2006)
- Associate Editor BMC Systems Biology (since 2008), Associate Editor Transactions on Computational Systems Biology, LNCS (since 2004), Area Editor Modeling Methods, Tools, and Applications, ACM: Transactions of Modeling and Computer Simulation - TOMACS (2009-2013), Department Editor Computer Technologies and Information Systems of the IIE Transactions of Operations Engineering (2001-2003), Associate Editor Transactions of the SCS (1997-2000).
- Program chair: Winter Simulation Conference (Berlin 2012), Computational Methods in Systems Biology Conference (Rostock 2008), Simulation Methodology as part of the European Simulation Multiconference (Warsaw 1999), Conference on Web-Based Modeling and Simulation as part of the SCS Western Multiconference (San Francisco 1999)
- Co-organisation of Dagstuhl seminars: Multiscale Spatial Computational Systems Biology (2014), Formal Methods in Molecular Biology (2011), Simulation and Verification of Dynamic Systems (2006), Grand Challenges for Modelling and Simulation (2002), Agent Oriented Approaches in Distributed Modeling and Simulation: Challenges and Methodologies (1999)

- Organisation of conference tracks: Modeling Track as part of the Winter Simulation Conference (New Orleans 2003, Austin 2009), Computational Methods in Systems Biology Track as part of the Winter Simulation Conference (Monterey 2006).
- Member of Steering Committees: Computational Methods in Systems Biology Conference (since 2006), ACM SigSIM - Principles of Advanced and Discrete Event Simulation Conference (since 2015)
- Member of the IPCs of workshops and conferences, e.g. Principles of Advanced and Distributed Simulation (PADS) (IEEE/ACM) (2003-2011), ACM SigSIM Principles of Advanced and Distributed Simulation (SigSIM-PADS) (since 2012), Distributed-Real Time Simulation (IEEE/ACM) (since 2004), Computational Methods in Systems Biology (since 2003)
- 2004 SCS (Society of Modeling and Simulation International) International Service Award, 2 Best paper awards
- Member of the ACM SIGSIM Distinguished Contributions Awards Committee (2013-2015), Member of the Winter Simulation Board of Directors (since 2010)
- Reviewer for the DFG, Alexander von Humboldt Foundation, European Union, ESRC, CNR-Italy, NSF.

#### **Grant support:**

- 2014-2016 DFG Research Project “Modeling and Simulation of Linked Lives in Demography” – MoSiLLDe
- 2014-2017 DFG Research Project “Efficient Simulation of Cell-Biological Multi-Level Models” – ESCeMMo
- 2011-2015 DFG Research Project “Visual Analytics and Stochastic Spatial Simulation for Cell Biology” – VASSiB (a joint project with Heidrun Schumann, as part of the SPP Scalable Visual Analytics: Interactive Visual Analysis Systems of Complex Information Spaces)
- 2006-2011 DFG Research Training Group “Integrative Development of Modeling and Simulation Methods for Regenerative Systems” – dIEM oSiRIS (Spokesperson)
- 2006-2015 DFG Research Training Group “Multimodal Smart Appliance Ensembles for Mobile Applications” – MuSAMA
- 2003-2013 DFG Research Project “Component based framework for an effective and efficient simulation of agent-based systems” – CoSA
- 2006-2010 DFG Research Project “Discrete event-oriented multi-level modeling and simulation in systems biology” – DIERMoSIS
- 2006-2007 DAAD Cooperation Project “Efficient and Flexible Parallel and Distributed Discrete Event Simulators for Cell-Biological Systems” – EFESYS (with Richard Fujimoto, Georgia Institute of Technology, USA)

### PhD students (Completed PhDs):

- S. Leye: Toward guiding simulation experiments, 2014.
- C. Maus: Towards accessible multilevel modeling in systems biology: A rule-based language concept, 2013
- S. Zinn: Continuous-time microsimulation and first steps towards a multi-level approach in demography, 2011
- O. Mazemondet: Spatio-temporal dynamics of the wnt/beta-catenin signaling pathway: A computational systems biology approach, 2011
- M. Jeschke: Efficient non-spatial and spatial simulation of biochemical reaction networks, 2010
- R. Ewald: Automatic algorithm selection for complex simulation problems, 2010
- M. John: Reaction constraints: A language core for the spatial modeling of biochemistry, 2010
- F. Marquardt: Dienstekomposition in intelligenten Umgebungen basierend auf Planungsmethoden der Künstlichen Intelligenz, 2010
- M. Röhl: Definition und Realisierung einer Plattform zur modellbasierten Komposition von Simulationsmodellen, 2008
- J. Himmelspach: Konzeption, Realisierung und Verwendung eines allgemeinen Modellierungs-, Simulations- und Experimentiersystems - Entwicklung und Evaluation effizienter Simulationsalgorithmen, 2007
- A. Martens: Ein Tutoring Prozess Modell für fallbasierte intelligente Tutoring Systeme, 2004