

Ute Schmid – Curriculum Vitae

Professor (C3) for Applied Computer Science/Cognitive Systems

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Date of Birth: Jan 24 1965; married, one child (born 2003)

Education

- 2002 Habilitation, *venia legendi* for Computer Science at TU Berlin
Thesis: Inductive Synthesis of Functional Programs – Learning Domain-Specific Control Rules and Abstract Schemes
Reviewer: Prof. Dr. F. Wysotzki, Prof. Dr. B. Mahr, Prof. Dr. P. Pepper, Prof. Jaime Carbonell (Carnegie Mellon University, Pittsburgh, PA, USA)
- 1994 Doctoral degree (Dr. rer. nat.) at TU Berlin (*summa cum laude*)
Thesis: Erwerb rekursiver Programmier Techniken als Induktion von Konzepten und Regeln
Advisors: Prof. Dr. B. Mahr, (Computer Science, TU Berlin; | Prof. Dr. K. Eyferth, (Psychology, TU Berlin)
- 1989-1994 Study of Computer Science at TU Berlin
Diplom (M.Sc.) 1994, Vordiplom (B.Sc.) 1992
- 1984-1989 Study of Psychology at TU Berlin and EWH Landau
Diplom (M.A.) 1989 at TU Berlin, Vordiplom (B.A.) at EWH Landau
- 1984 Abitur (A Levels), St. Thomas Gymnasium, Wettenhausen, Bayern

Work Experience

- since 9/2004 Professorship (C3) for Applied Computer Science/Cognitive Systems, Faculty Information Systems and Applied Computer Science, University of Bamberg, Germany
- 8/2003–8/2004 Parental Leave
- 2001–2004 Lecturer (Akademische Rätin), Department Mathematics and Computer Science, University of Osnabrück, Germany
Adjunct Member of the Institute of Cognitive Science
- 10/1998-3/1999 DFG Research Fellowship, Carnegie-Mellon University, Pittsburgh, PA (invited
3/2000-8/2000 by Jaime Carbonell)
- 1994–2001 Assistent Professor (Wissenschaftliche Assistentin, C1), Department of Computer Science, TU Berlin, Methods of AI Group (Chair: Prof. Dr. Fritz Wysotzki)
- 1989–1994 Teaching/Research Assistant (Wissenschaftliche Mitarbeiterin, Landesstelle), General Psychology, Institute of Psychology, TU Berlin (Chair: Prof. Dr. Klaus Eyferth)
- 1989 Research Assistant (Wissenschaftliche Mitarbeiterin), in the DFG Research Unit „Konstruktionshandeln“ Project „Software Evaluation“ (headed by Prof. Dr. A. Upmeyer)
- 1986-1989 Student research assistant in the DFG Research Unit „Konstruktionshandeln“, Project „Software Evaluation“ (headed by Prof. Dr. A. Upmeyer)

Professional Service (Selection)

- Member of the Editorial Board of the Springer Journal KI (2007-2015)
- Guest Editor of the Special Issue „Complex Cognition“ for the Elsevier Journal Cognitive Systems Research (volume 12, issue 3-4, 2011)
- Guest Editor of KI Special Topic Cognition (1/2008)
- Action Editor for Journal of Machine Learning Research (JMLR) Special Topic „Approaches and Applications of Inductive Programming“ (with Roland Olsson, 2007)
- Member in numerous program committees, e.g., KI Annual Conference (since 2007), Cognitive Science Conference (since 2012), International Conference on Cognitive Modeling (ICCM), AAAI Cognitive Systems Tracks (since 2011), Artificial General Intelligence (AGI, since 2009)
- Ad hoc reviewer for several conferences and journals, e.g., Cognitive Systems Research, Cognitive Processing, Journal of Pattern Recognition Research (JPRR), Topics in Cognitive Science
- Organizer and chair of Conferences and Workshops, e.g., Workshop-Series Approaches and Applications of Inductive Programming (AAIP, since 2005, biannually, 2013, 2015, 2017 as Dagstuhl seminar), Chair of KogWis'12, Workshop-Cair KI'13, Publicity Chair CogSci'13
- Board Member of the German Cognitive Science Society in various positions 2001 to 2016, President (2007-2008)
- Co-Speaker of the special interest group Cognition of the Artificial Intelligence Department of the German Computer Science Society (GI), 2007-2012S
- Reviewer for accreditations of study programs (AQAS Computer Science HS Bielefeld; ACQUIN Cognitive Science University of Freiburg, Cognitive Science University of Tübingen)
- Lecturer at the Interdisciplinary College (IK'13, IK'17), Günne

Other Services (Selection)

- Initiator and organizer of three different annual workshops programs for high school students, since 2005 (MuT program for girls aged 10-14; Girls'Day for girls 14-18, BIT boys and girls for different age groups)
- Initiator of a program Elementary Computer Science for children aged 5-10 (since 2008)
- Jury member of „Jugend forscht“ (regional competition, Oberfranken) for Mathematics/Computer Science (since 2010)

Institutional Service (Selection)

- Dean of the faculty since October 2017
- Women's Representative of the faculty (since 2005 and since then member of the faculty council – Fakultätsrat)
- Head of the university committee to resolve academic conflicts (Kommission zur Konfliktlösung an wissenschaftlichen Arbeitsplätzen) 2012-2017 (before member since 2008 and secondary head 2010-2012)
- Member of the audit group 'Family Friendly University' since 2006

Grants Received (only grants with more than 100 TE)

- *Transparent Medical Expert Companion*, BMBF IKT 2020 - Softwareintensive eingebettete Systeme, Förderbereich: Maschinelles Lernen (September 2018-August 2021, 1 full researcher and equipment)
- *Computer Science for Elementary Education*, Technological Alliance Upper Frankonia (TAO), November 2015 – October 2017 (0,5 researcher and equipment)
- *EMN-Moves: Mobile in old age – mobility chains for removing, bypassing, and overcoming mobility barriers*. BMBF-Cooperative Project, Part: Assistance technologies/Matchmaking, November 2011 – October 2014 (1 full researcher and equipment)
- *Alumnae Tracking – Empirical investigation of subjective and objective factors which hinder professional careers of women in computer science*, ESF, October 2012 – December 2014 (2 0,5 researchers and equipment)
- *Efficient algorithms for inductive program synthesis*, DFG-Project SCHM 1239/6-1, 6-2, 2007-2010 (1 full researcher and equipment)
- DFG-Research Fellowship *Combining Inductive Program Synthesis with Planning and Analogical Reasoning* at Carnegie Mellon University, Pittsburgh, PA (host: Jaime Carbonell), 1998-2000)

Five Recent Publications (Peer-Reviewed)

1. Muggleton, S. H., **Schmid, U.**, Zeller, C., Tamaddoni-Nezhad, A., & Besold, T. Ultra-Strong Machine Learning–Comprehensibility of Programs Learned with ILP. *Machine Learning*, 107(7), 1119–1140
2. **Schmid, U.**, Zeller, C., Besold, T., Tamaddoni-Nezhad, A., Muggleton, S. (2017). How Does Predicate Invention Affect Human Comprehensibility? In: J. Cussens and A. Russo (Eds.), 26th International Conference on Inductive Logic Programming (ILP'16), Revised Selected Papers (52-67). LNCS 10326. Springer
3. Hernandez-Orallo, J., Martnez-Plumed, F., **Schmid, U.**, Siebers, M., Dowe, D.L. (2016). Computer Models Solving Intelligence Test Problems: Progress and Implications. *Artificial Intelligence*, Vol. 230, 74-107.
4. Siebers, M., **Schmid, U.**, Seuß, D., Kunz, M., Lautenbacher, S. (2016). Characterizing Facial Expressions By Grammars of Action Unit Sequences -- A First Investigation Using ABL. *Information Sciences*. Vol 329, 866-875
5. Gulwani, S., Hernández-Orallo, J., Kitzelmann, E., Muggleton, S., **Schmid, U.**, and Zorn, B. (2015). Inductive Programming Meets the Real World, *Communications of the ACM*, 58(11), 90-99.