

# Curriculum Vitae

Status: February 1, 2008

**Fritz Henglein**

Born June 3d, 1961, in Freising, Germany.

## Academic background and employment

M.S. (1986) and Ph.D. (1989) in computer science, Rutgers University, New Jersey; Research scientist, New York University (1987-89 and 1990); research visitor, IBM Research (1988); Post-doc, University of Utrecht (1990); research scientist, assistant professor, associate professor, DIKU (1991-99); associate professor, ITU (1999-2002); founding partner, director, Hafnium ApS (1998-2002); professor mso, DIKU (2002-).

## Professional and management qualifications

Served on ca. 25 international program committees within programming language theory, design and implementation. Chaired or co-organized: 8 conferences and workshops; initiator/manager of lecture series at NYU, DIKU, ITU with more than 100 guest speakers.

Reviewing for NSF, Dutch, Swedish research councils, 400-500 peer reviews for ca. 20 journals and ca. 40 conferences (1990-2008); ca. 30 invited workshop, conference and summer school talks/lectures.

Chairman of: computing equipment committee, DIKU (1998-99); graduate program in software development, ITU (1999-2000); Board of Studies, ITU (2000).

Member of: ACM SIGPLAN Executive Committee (1997-99); ERCIM Editorial Board (1997-99); IFIP TC 2.8 (1997-present); Departmental Board, DIKU (1998-99); Board of Eur. Ass. for Prog. Lang. and Systems, 1997-2000; Editorial Board, Journal of Functional Programming (2002-2006); Governing Board, FIRST Ph.D. School (2003-); other professional organizations (ACM, ACM SIGs, etc.).

Academic advisor for 9 Ph.D. projects (1993-present), 4 finished (graduated 1996, 1997, 1998, 2001), 4 ongoing; thesis advisor for ca. 25 Master's students (kandidater), 20 of whom in last 8 years; external evaluator on 11 Ph.D. theses (1992-present), numerous Master's theses, Ph.D. proposal defenses, student projects and courses.

Management training course at SHL Denmark (2000).

Founding partner, director, Y2K conversion project manager, of spin-off company Hafnium ApS (1998-2002).

Member of IT University of Copenhagen (ITU) start-up faculty (1999-2002).

Vice Head of Research, DIKU (2007). Head of TOPPS Research Group (2007-)

## Research interests and projects

Ca. 35 published contributions in software reengineering; type-based program analysis; algorithmic, logical, complexity-theoretic and semantic aspects of type systems; polymorphic type inference; semi-unification; programming models; program transformation. Ranked amongst top-20 cited computer scientists in Denmark (according to Google Scholar, Citeseer). Current research projects: 3d generation Enterprise Resource Planning (Danish National Advanced Technology Foundation funded project), Trust-Care (Danish Strategic Research Council funded project), Applications and Principles of Programming Languages (Danish Natural Science Research Council funded), minor personal grants (IBM Research, Microsoft Development Center Copenhagen).

## Select publications

- [1] Olivier Danvy, Fritz Henglein, Harry Mairson, Alberto Pettorossi (ed.) *Automatic Program Development—A Tribute to Robert Paige*. Springer, 2008. ISBN 978-1-4020-6584-2.
- [2] Sian Jha, Jens Palsberg, Tian Zhao, Fritz Henglein. *Efficient Type Matching*. In Danvy, Henglein, Mairson Pettorossi, “Automatic Program Development”, Springer, 2008.
- [3] Fritz Henglein. *What is a Sorting Function?* Proc. 19th Nordic Workshop on Programming Theory (NWPT), Oslo, October 10-12, 2007
- [4] Jesper Andersen, Ebbe Elsborg, Fritz Henglein, Jakob Grue Simonsen, Christian Stefansen. *Compositional specification of commercial contracts*. International Journal on Software Tools for Technology Transfer (STTT), Volume 8, Number 6, November 2006, Special Section on Leveraging Applications of Formal Methods, pp. 485-516, URL: <http://dx.doi.org/10.1007/s10009-006-0010-1>
- [5] Fritz Henglein, Henning Makhholm, Henning Niss. *Effect type systems and region-based memory management*. In Benjamin Pierce (ed.), “Advanced Topics in Types and Programming Languages”, MIT Press, Jan. 2005.