

SHORT CURRICULUM VITAE
Welf Löwe, PhD

Full Professor
Linnaeus University
Department of Computer Science
SE-351 95 Växjö

T +46 (0) 470 70 8495
F +46 (0) 470 84 00 4
E <Welf.Lowe@lnu.se>
W <<http://welf.se>>

Education

Ph.D. Computer Science
Summa cum laude (With Distinction)
Karlsruhe Institute of Technology, Germany, 1996
Dissertation: *Optimization of Parallel Programs*

Employment

2002 – ongoing: Full Professor, Principle of Computer Science, Linnaeus University, SE
2013 – ongoing: Supervisory Board of Softwerk AB/ARiSA, SE
2009 – 2012: Chairman of Softwerk AB/ARiSA, SE
2006 – 2009: Founder and CEO of Softwerk AB/ARiSA, SE
1999 – 2002: Assistant Professor (C1), Karlsruhe Institute of Technology, DE
1996 – 1999: Research Assistant, Technical University of Karlsruhe, DE
– Post-Doctoral Researcher, International Computer Science Institute (ICSI), Berkeley, 06/1997– 9/1997, USA
– Guest Lecturer, Technical University Budapest, 09–10/1998 and 09–10/1999, HU

Selected Grants, Honors and Memberships

1993 Graduate School Fellowship, Karlsruhe, GE,
1997 International Computer Science Institute Fellowship Award, Berkeley, USA
2004 Fellowships from the “Tore Danielsson” research fund of Växjö University, SE
2004 Fellowships from the “Teknikcentrum Kronoberg” foundation, SE
2008 Fellowships for “Innovative Research” of Växjö University, SE
2016 Award for “Societal Collaborations” of Linnaeus University, SE.

Selected Performance Indicators

Last five years research funding: 48 mSEK (EU, KK, Vinnova, VR, etc.) 70 mSEK (LNU)

Publication data Google Scholar (<http://scholar.google.com>) Citations: 2008, h-index: 22

Five most cited papers:

- 1) D Heuzeroth, T Holl, G Hogstrom, W Löwe: Automatic design pattern detection. IEEE IWPC, 2003 (222 Citations)
- 2) R Lincke, J Lundberg, W Löwe: Comparing software metrics tools. ISSTA, 2008 (191 Citations)
- 3) ML Noga, S Schott, W Löwe: Lazy XML processing. ACM DocEng, 2002 (71 Citations)

- 4) D Heuzeroth, T Holl, W Löwe: Combining static and dynamic analyses to detect interaction patterns. IDPT, 2002 (62 Citations)
- 5) N Pettersson, W Lowe, J Nivre: Evaluation of accuracy in design pattern occurrence detection. IEEE Transactions on Software Engineering 36 (4), 575-590 (55 Citations)

Supervision and Examination of PhD Students

Licentiate degrees awarded to 7 PhD students; currently main supervisor of 5 PhD students.
People awarded doctorates (main supervisor):

- 1) J Nivre: Inductive Dependency Parsing of Natural Language Text, 2005.
- 2) Th Panas: A Framework for Reverse Engineering, 2005.
- 3) M Ericsson: Composition and Optimization, 2008.
- 4) R Lincke: Validation of a Standard- and Metric-Based Software Quality Model, 2009.
- 5) D Strein: Code Analysis and Refactoring Tools for Heterogeneous Systems, 2009.
- 6) M Edvinsson: Parallelized Program Analysis, 2010.
- 7) T Gutzmann, Benchmarking Points-To Analysis, 2013.
- 8) J Lundberg: Fast and Precise Points-To Analysis, 2014.
- 9) A Danylenko: Decision Algebra: Learning and Training Classifiers, 2015.
- 10) J Kirchner: Context-Aware Optimized Service Selection with Focus on Consumer Preference, 2016.

National and International Collaborations (Selection)

- 1) Erasmus program collaborations with the Universities of Eichstätt, Halle, Jena, Karlsruhe, Trier, and with the Universities of Applied Sciences of Augsburg, Hannover, Fulda, Karlsruhe, Neubrandenburg, DE
- 2) Linköping University, IDA, Blekinge Tekniska Högskola, DIDD, SE
- 3) Danfoss, Ericsson, IBM, Sigma Technologies, Vattenfall, Yaskawa, others SE

Professional Activities (Selection)

- 1) Initiator and General Chair of the Nordic Conference on Web Services (NCWS 2003, 2004); General Chair of the IEEE European Conference on Web Services (ECOWS 2005) and the Software Composition Symposium (SCS 2006 and 2013). Co-chair of the ISoLA track on Evaluation and Reproducibility of Program Analysis (2014, 2015).
- 2) PC member of SCS (since 2002), of ECOWS (since 2004), and many other software engineering and parallel computing conferences and workshops.
- 3) Journal reviewer: Annals of Software Engineering, IEEE Transactions on Software Engineering, IEE Proceedings Software, Information Technology (it), Software Maintenance & Evolution, Software Practice & Experience, Systems and Software, Information and Software Technology, Science of Computer Programming.
- 4) Member of IFIP WG 2.4 Software Implementation Technology, since 2007.
- 5) Co-founder and scientific coordinator of Web Services Competence Centre, industry-cluster, 110 member companies and organizations, 2002–2007.
- 6) Founder and chairman of Information Engineering Centre (IEC, <http://iec2020.se>), industry-cluster, >200 member companies and organizations, 2010-2017.
- 7) Founder and director of Linnaeus Center (research excellence center) on Data Intensive Sciences and Applications (DISA, <https://lnu.se/disa>), since 2017.
- 8) Co-founder: ARiSA AB (2006), Softwerk AB (2008), AIMO (2017), DueDive AB (2018)