

## SHORT CURRICULUM VITAE

**Welf Löwe, PhD**

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**Education**

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

**Employment**

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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**

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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

**Selected Performance Indicators**

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**Last five years external funding:** 48 MSEK (EU, KK, Vinnova, VR, others)

**Publication data from Google Scholar** (<http://scholar.google.com>), May 2016,

Citations: 1655

h-index: 20

i10-index: 51

**Five most cited papers:**

- 1) D Heuzeroth, T Holl, G Hogstrom, W Löwe: Automatic design pattern detection. IEEE IWPC, 2003 (*190 Citations*)

- 2) R Lincke, J Lundberg, W Löwe: Comparing software metrics tools. ISSTA, 2008 (*141 Citations*)
- 3) ML Noga, S Schott, W Löwe: Lazy XML processing. ACM DocEng, 2002 (*68 Citations*)
- 4) D Heuzeroth, T Holl, W Löwe: Combining static and dynamic analyses to detect interaction patterns. IDPT, 2002 (*60 Citations*)
- 5) D Heuzeroth, S Mandel, W Löwe: Generating design pattern detectors from pattern specifications. ASE 2003 (*46 Citations*)

### **Supervision and Examination Responsibilities**

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People awarded doctorates:

- 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.

Licentiate degrees awarded to 7 PhD students; currently main supervisor of 5 PhD students.

### **National and International Collaborations (Selection)**

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- 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

### **Recent Professional Activities**

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- 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, scientific coordinator of Web Services Competence Centre, industry-cluster, 110 member companies and organizations, 2002–2007.
- 6) Founder/chairman of Information Engineering Centre, industry-cluster, >200 member companies and organizations, since 2010.