

# Curriculum Vitae

## Personal Details

Name Dr. Ulrike Steffens  
Address Escherweg 2  
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Germany



## Education and Work Experience

1988 abitur (German university entrance qualification)  
1988 – 1990 apprenticeship as a bank clerk at Vereins- und Westbank AG, Hamburg  
1990 – 1998 computer science studies at Hamburg University with specialization in databases and information systems, minor subject Japanese studies  
1998 diploma degree in computer science  
04/1998 – 09/2003 research assistant at Technical University Hamburg-Harburg, Institute for Software Systems  
12/2004 graduation with a doctorate in computer science at Technical University Hamburg-Harburg  
04/2004 – 09/2007 senior researcher and project manager at OFFIS Institute for Information Technology Oldenburg, R & D division business information management  
10/2007 – today head of the software technology for business information systems group at OFFIS Institute for Information Technology, Oldenburg  
06/2008 – today manager of the OFFIS Technology Cluster “Enterprise Application Integration”

## Projects

### Industry Projects

- Pilot Project Identity Management (2004 – 2005, project management)  
Prototypical introduction of a meta directory
- CENTURA (2004 – 2005)  
“As is“ analysis of invoice business processes, process modelling, evaluation
- Enterprise Architecture Management (2004 – 2008, project management)  
Research and documentation of EAM state of the art for the project partner, support of the development of the partner’s own EAM tool
- Recovery for Coupled Applications (2004 – 2007, project management)  
Design of courses of action to be taken in case of failures within distributed application landscapes
- Meta Model for Applications (2006 – 2008, project management)  
Development of a descriptive meta model for applications in business contexts supporting information exchange between UML modelling and EAM tools

- Document Management (2005 – 2006, project management)  
Development of a criteria catalogue for the procurement of a new document management system
- ALIS Planning Application Lifecycles (2007 – 2008, project management)  
Design and Development of a tool for application planning making use of software cartography
- getRole (2004 – 2008, project management)  
Deriving role models from existing access rights by means of data mining algorithms
- Software Quality Management (2007 – 2008, project management)  
Improving the quality management within the partner's software development processes

### Research Projects

- Kolibri (1998 - 2002)  
Development of models and tools for cooperative digital reference libraries within the priority programme „Distributed Processing and Mediation of Digital Documents“, funded by the German Science Foundation
- DELOS Network of Excellence (2004 – 2007)  
Research in the areas of software architecture and non-textual documents within the European network of excellence on digital libraries, funded by the European Union, partners: 55 European research and industry partners
- PROBADO (2006 – 2007, project management)  
Installation of a center of excellence for non-textual research information, funded by the German Science Foundation, partners: Technical University of Graz, University of Bonn, German National Library of Science and Technology Hannover, Bavarian State Library Munich
- MINT (2006 – 2008, project management)  
Development of a model-driven approach for the integration of existing software systems, funded by the German Federal Ministry of Education and research, partners: University of Oldenburg, FZI Karlsruhe, BTC AG Oldenburg, Delta Software Technology GmbH Schmollenberg, andrena objects AG Karlsruhe

### Publications

#### Books (author)

- Ulrike Steffens: „Metadaten-Management für kooperative Anwendungen“, PhD thesis, Technical University Hamburg-Harburg, 2004.

#### Books / Proceedings (editor)

- Jan Stefan Addicks, Ulrike Steffens, Niels Streekmann (ed.): „MDD, SOA und IT-Management, MSI 2008“, Gito-Verlag, 2008.
- Jan Stefan Addicks, Ulrike Steffens, Niels Streekmann (ed.): „MDD, SOA und IT-Management, MSI 2007“, Gito-Verlag, 2007.

#### Journal Articles

- Niels Streekmann, Ulrike Steffens, Claus Möbus, Hilke Garbe: „Model-Driven Integration of Business Information Systems“, Softwaretechnik Trends, 26(4), pp. 9 – 13, November 2006.
- Florian Matthes, Joachim W. Schmidt, Ulrike Steffens: „Kolibri - Entwicklung von Modellen und Werkzeugen für kooperative digitale Handbibliotheken“, Informationstechnik und Technische Informatik, 42(6), December 2000.
- Ulrike Steffens: „Information Retrieval: Grundlagen, Systeme und Integration. Bibliothek. Forschung und Praxis“, Volume 21 (1997) Nr. 1 .

#### Conference Papers and Articles in Collections

- Jan Stefan Addicks, Ulrike Steffens: „Supporting Landscape Dependent Evaluation of Enterprise Applications“, Multikonferenz Wirtschaftsinformatik, Munich, GITO-Verlag, Berlin, February 2008.

- Michael Springmann, Ludger Bischofs, Peter M. Fischer, Hans-Jörg Schek, Heiko Schuldt, Ulrike Steffens, Raimund Vogl: „Management of and Access to Virtual Electronic Health Records“, DELOS Conference, Lecture Notes in Computer Science, Vol. 4877, pp. 338-347, Springer, 2007.
- Ralf H. Reussner, Ulrike Steffens, Niels Streekmann: „Projekt MINT - Modellgetriebene Integration von betrieblichen Informationssystemen“, Statuskonferenz Forschungsoffensive „Software Engineering 2006“, Leipzig, June 2006.
- Jürgen Schlegelmilch, Ulrike Steffens: „Role mining with ORCA“, in Proceedings of the Tenth ACM Symposium on Access Control Models and Technologies, Stockholm, Sweden, pp. 168 – 176, June 2005.
- Ulrike Steffens, Mathias Uslar: “Using Process Modeling for Well-directed Distribution of Knowledge Assets”, in Proceedings of the 5th International Conference on Knowledge Management I-Know 2005, Graz, 2005.
- Ulrike Steffens, Mathias Uslar: “Wissensinfrastrukturen für ein projektorientiertes Wissensmanagement“, in „Wissens- und Werte-Management in Theorie und Praxis“, VDM-Verlag, Saarbrücken, 2005.
- Ludger Bischofs, Simon Giesecke, Wilhelm Hasselbring, Heiko Niemann, Ulrike Steffens: “Adaptive Replication Strategies and Software Architectures for Peer-to-Peer Systems”, in Proceedings of the DELOS Workshop on Future Digital Library Management Systems 2005.
- Charalampos Dimitropoulos, Jens-Peter Dittrich, Peter M. Fischer, Wilhelm Hasselbring, Yannis Ioannidis, Donald Kossmann, Christoph Langguth, Robert Penz, Thomas Schabetsberger, Hans-Jörg Schek, Heiko Schuldt, Michael Springmann, Ulrike Steffens, Raimund Vogl: “Management of and Access to Virtual Electronic Health Records”, 9th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2005), September 2005.
- Ludger Bischofs, Ulrike Steffens: “Organisation-oriented Super-Peer Networks for Digital Libraries”, in “Peer-to-Peer, Grid, and Service-Oriented in Digital Library Architectures: 6th Thematic Workshop of the EU Network of Excellence DELOS”, Lecture Notes in Computer Science, pp. 45-62, Springer, 2004.
- Ludger Bischofs, Wilhelm Hasselbring, Jürgen Schlegelmilch, Ulrike Steffens: “A Hierarchical Super Peer Network for Distributed Artifacts”, DELOS Workshop: Digital Library Architectures, pp. 105-114, Edizioni Libreria Progetto, Padova, June 2004.
- Monika Renz, Florian Matthes, Ulrike Steffens, Joachim W. Schmidt: „Erschließung heterogener Wissensquellen durch eine digitale Bibliothek für die öffentliche Verwaltung“, in Tagungsband 25. DGI Online Tagung Competence in Content, Frankfurt, June 2003.
- Claudia Niederée, Ulrike Steffens, Matthias Hemmje: “Towards Digital Library Mediation for Web Services”, iEurAsian Workshop on Knowledge Foraging for Dynamic Networking of Communities and Economies, Shiraz, Iran, October 2002.
- Florian Matthes, Claudia Niederée, Ulrike Steffens: “C-Merge: A Tool for Policy-Based Merging of Resource Classifications”, Research and Advanced Technology for Digital Libraries, Proceedings of the 5th European Conference, ECDL2001, Darmstadt, September 2001.
- Martin Raulf, Rainer Müller, Ulrike Steffens, Florian Matthes, Klaus J. Scheunert, Joachim W. Schmidt: „Begriffsorientierte Dokumentenverwaltung für das internetgestützte Projektmanagement - Der FHH InfoBroker für das Projekt "sap für hamburg" –“, in Tagungsband 4. GI-Fachgruppentagung "Management und Controlling von IT-Projekten", Glasshütten (Taunus). dpunkt.verlag, March 2001.
- Claudia Niederée, Ulrike Steffens, Joachim W. Schmidt, Florian Matthes: “Aging Links”, in Research and Advanced Technology for Digital Libraries, Proceedings of the 4th European Conference, ECDL2000, Lissabon, Portugal, Lecture Notes in Computer Science, Vol. 1923, Springer-Verlag, September 2000.
- Florian Matthes, Ulrike Steffens: “PIA - A Generic Model and System for Interactive Product and Service Catalogs”, Research and Advanced Technology for Digital Libraries, Proceedings of the 3rd European Conference, ECDL'99, Paris, Frankreich, Lecture Notes in Computer Science, Vol. 1696, pp. 403-422. Springer-Verlag, September 1999.

## Research Reports

- Florian Matthes, Ulrike Steffens: "Establishing a Cooperative Digital Library for Teaching Materials - A Case Study", technical report, Institute for Software Systems, Technical University Hamburg-Harburg, August 2000.
- Florian Matthes, Claudia Niederée, Joachim W. Schmidt, Ulrike Steffens: "Das Internet als Wissensmarkt. Möglichkeiten und Grenzen", technical report, Institute for Software Systems, Technical University Hamburg-Harburg, July 1999.
- C. Niederée, U. Steffens, H-W. Sehring, F. Matthes, J.W. Schmidt: „On Indexing in Digital Libraries: Cooperation, Personalization, and Evolution“, technical report, Institute for Software Systems, Technical University Hamburg-Harburg, 1998.
- Ulrike Steffens: „Integration von Information Retrieval Funktionalität in eine offene, persistente Programmierumgebung“, Informatik Mitteilung FBI-HH-M-257/96, Department of Informatics, University of Hamburg, April 1996.

## Other Publications

- Thorsten Steenweg, Ulrike Steffens: „Probado - Non-Textual Digital Libraries put into Practice“, ERCIM News, Special Theme: European Digital Library: pp. 47-48, July 2006.
- Ulrike Steffens: „Wechselseitige Integration von Information Retrieval und Datenbanken“, master thesis, Department of Informatics, University of Hamburg, December 1997

## Further Research Activities

### Conference Participation

- IADIS International Conference Web Based Communities 2006, reviewer
- IADIS International Conference Web Based Communities 2007, reviewer
- GI-Workshop "MDD, SOA und IT-Management 2007", member of organization and programme committee
- 11<sup>th</sup> European Conference on Research and Advanced Technology for Digital Libraries, ECDL 2007, poster chair
- Software Engineering SE 2008, reviewer
- Workshop Modellgetriebene Softwarearchitektur – Evolution, Integration und Migration MSEIM 2008, member of programme committee
- Software-Architektur 2008 - Workshop und Jahrestreffen der GI-Fachgruppe Software-Architektur, member of programme committee
- 12<sup>th</sup> European Conference on Research and Advanced Technology for Digital Libraries, ECDL 2008, poster chair
- GI-Workshop "MDD, SOA und IT-Management 2008", member of organization and programme committee
- 13<sup>th</sup> European Conference on Research and Advanced Technology for Digital Libraries, ECDL 2009, member of programme committee

### Journal Reviews

- IEEE Transactions on Dependable and Secure Computing, reviewer

### Other Reviews

- Austrian Research Promotion Agency FFG, programme Research Studios Austria, reviewer

### Participation in Research Groups

- GI special interest group for object-oriented software development
- GI special interest group for software architecture
- GI research group for service-oriented software architectures
- GI research group for architecture of application landscapes

## Teaching

### Technical University of Hamburg-Harburg

- Participation in the organization of the lectures "Informatik für Ingenieure 1 und 2" with about 160 participants.
- Substitute lecturer for the lectures "Informatik für Ingenieure 1 u. 2".
- Observer in the exams for "Informatik für Ingenieure 1 u. 2".
- Organization of lecture tutorials for "Informatik für Ingenieure 1 und 2".
- Professional trainings "Programmiersprache Java und verwandte Themen" within the Authorized Java Center / Academic with about ca. 25 participants.
- Instructor in the advanced seminar "Realisierung eines IuK-Anwendungssystems" with about 20 participants.
- Instructor in the tutorial "Object-oriented Analysis and Design" with about 60 participants
- Instructor in the tutorial "Languages and Tools for Object-Oriented Development" with about 60 participants

### OFFIS Institute for Information Technology

- Supervisor for exam theses at the University of Cooperative Education Oldenburg
- Instructor at the University of Oldenburg for the student project modular enterprise architecture management

## Other Activities

### Languages

- German
- English
- French
- Swedish

### Leisure Activities

- Jogging
- Badminton
- Classical Guitar