

## Elke Michlmayr, MSc

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INTERESTS Distributed Systems, Web Engineering, Algorithms

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DATE OF BIRTH 13/08/1976, Linz, Austria

LANGUAGES English: fluent, German: native

EDUCATION **PhD Candidate in Computer Science**  
**Vienna University of Technology, Austria**  
August 2003 - May 2007 (submission)  
Defense: December 2007  
Thesis: Ant Algorithms for Self-Organization in Social Networks  
Advisors: Gerti Kappel, Wolfgang Nejdl (University of Hannover, Germany)



**MSc Computer Science (Diplomingenieurin)** September 1996 - May 2002  
**Vienna University of Technology, Austria**  
Thesis: Flexible Content Management for the LoL@ UMTS Application  
Advisors: Clemens Kerer, Mehdi Jazayeri  
Graduated with honors

Student of Mathematics, Vienna University of Technology September 1994 - June 1996

EXPERIENCE **Intern** September 2006 - March 2007  
**Hewlett-Packard Labs (Bristol, UK)**  
Java programming  

- Designed an algorithm for learning adaptive user profiles from social bookmarking systems based on co-occurrence of tags and a decay factor to consider time information in the weighting of the relative importance of a tag in the profile.
- Designed and implemented a tool for visualizing the profile's changes over time.
- Advisors: Steve Cayzer, Paul Shabajee

**Intern** August 2005 - November 2005  
**IBM Research/OTI Labs - Eclipse (Zürich, CH)**  
Java programming, JUnit testing  

- Implemented a tool for import and export of Bugzilla bugs for the Jazz platform (an extension of Eclipse for improved team collaboration). The tool includes a wizard for manual import and a headless UI for batch import. It is used as a test client for the platform's underlying framework.
- Advisors: Christof Marti, Erich Gamma

**Software Engineer** June 2001 - June 2003  
**ftw. Telecommunications Research Center Vienna (Vienna, AT)**  
Java programming (June 2001 - January 2003)  

- Designed and implemented a HTTP/HTML-based content delivery system for a prototype of a location-based mobile tourist guide for UMTS networks. This work was carried out in a joint project of industry (Ericsson, Mobilkom Austria, Siemens, Kapsch) and research. My part was to integrate data from various sources (text, images, video, sound, location data) and to present it according to the client's device features and requirements, such as screen size.

Python programming (January 2003 - June 2003)

- Designed and implemented a Zope-based content management system for the ftw. Web site

**Trainer for Adult Education (Part time)**

May 2000 - May 2003

**WIFI (Vienna, AT), telm@ (Groß Siegharts, AT)**

Designed and taught introductory and advanced courses on

- Linux (installation, administration)
- Design and implementation of relational databases (with MySQL)
- Introduction to programming (with Perl)

**Web Application Developer (Part time)**

June 2000 - January 2001

**scharf.net (Vienna, AT)**

Perl programming

- Contributed to a XML/XSL(T)-based content management system used for the website of one of the big Austrian daily newspapers (“Wirtschaftsblatt”)

**Intern**

Summer 1997, Summer 1998

**BMW Motoren GmbH Steyr (Steyr, AT)**

- Designed and implemented a database for engine material stock management

## BOOKS

Horst Eidenberger, Elke Michlmayr, “Programmieren lernen und Probleme lösen mit Perl” (Programming and Problem Solving with Perl), ISBN 3-89864-320-4, 280 pp., dpunkt.Verlag, Heidelberg, June 2005.

## SELECTED PUBLICATIONS

- Elke Michlmayr, “Self-Organization for Search in Peer-to-Peer Networks”, Book chapter, Advances in biologically inspired information systems: models, methods, and tools (Springer Studies in Computational Intelligence), to be published.
- Elke Michlmayr, Steve Cayzer, Paul Shabajee: “Add-A-Tag: Learning Adaptive User Profiles from Bookmark Collections,” Poster paper, International Conference on Weblogs and Social Media (ICWSM’06), Boulder, Colorado, USA, March 2007.
- Marion Murzek, Gerhard Kramler, Elke Michlmayr, “Structural Patterns for Business Process Models Transformation,” Proceedings of the International Workshop on Models for Enterprise Computing, 10th IEEE International Enterprise Computing Conference (EDOC 2006), Hong Kong, October 2006.
- Elke Michlmayr: “Ant Algorithms for Search in Unstructured Peer-to-Peer Networks,” Ph.D. Workshop, 22nd International Conference on Data Engineering (ICDE 2006), Atlanta, Georgia, USA, April 2006.
- Elke Michlmayr, “A Case Study on Emergent Semantics in Communities,” Workshop on Semantic Network Analysis, International Semantic Web Conference (ISWC2005), Galway, Ireland, November 2005.
- Harald Kunczler, Elke Michlmayr, Günther Pospischil, Hermann Anegg, “LoL@ - A Prototype of a Network Independent Wireless Internet Service,” 5th International Symposium on Advanced Radio Technologies, Boulder, Colorado, USA, March 2003.
- Martina Umlauf, Günther Pospischil, Georg Niklfeld, Elke Michlmayr, “LoL@, a mobile tourist guide for UMTS,” Journal of Information Technology & Tourism, Congnizant, USA, 2003.
- Günther Pospischil, Martina Umlauf, Elke Michlmayr: “Designing LoL@, a mobile tourist guide for UMTS,” 4th International Symposium on Human-Computer Interaction with Mobile Devices, Pisa, Italy, September 2002.

## TEACHING EXPERIENCE

- Course on Web Engineering (Summer terms 2006, 2005, 2004)
- Course on Semantic Web (Summer term 2004)

## REFERENCES

Prof. Gerti Kappel, Vienna University of Technology, gerti@big.tuwien.ac.at

Dr. Steve Cayzer, HP Labs Bristol, steve.cayzer@hp.com

Dr. Günther Pospischil, mobilkom Austria, g.pospischil@mobilkom.at

Dr. Markus Kommenda, ftw. Telecommunications Research Center Vienna, kommenda@ftw.at