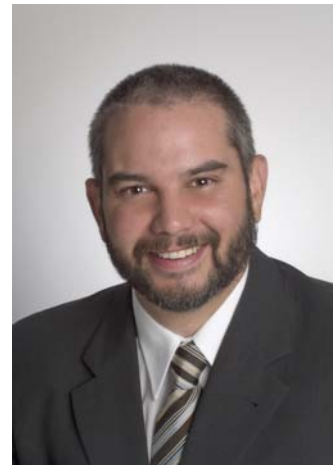


# CURRICULUM VITAE

DR. WIELAND SCHWINGER



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## WORK RECORD

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ASSISTANT PROFESSOR	2003 Apr - ongoing	Department of Telecooperation, Johannes Kepler University Linz, AUT
SENIOR RESEARCHER/ PROJECT MANAGER Strategic research projects, responsible for research funding activities	2000 Jun - 2003 Mar	Software Competence Center Hagenberg (SCCH), AUT
LECTURER Studienzweig Medientechnik und Design	2000 Oct - 2001 Feb	Upper Austria University of Applied Sciences Hagenberg, AUT
PROJECT ASSISTANT Development of the research documentation of the Johannes Kepler University Linz	1998 Jun - 2000 Jun	Centre for Computing and Information Technology, Johannes Kepler University Linz, AUT
RESEARCH ASSISTANT	1997 Jul - 1998 May	Department of Information Systems, Johannes Kepler University Linz, AUT
PROJECT ASSISTANT Development of the research documentation of the Johannes Kepler University Linz	1996 Jul - 1997 Feb	Department of Information Systems Johannes Kepler University Linz, AUT

My focus of research is on models and ontologies as bases for the development of context-aware systems. Application domains addressed in my work stretches from electronic commerce and mobile computing to traffic management systems. Centring around this focus of interest, my research record currently comprises more than 50 internationally reviewed publications, among them five publications in internationally renowned journals, and five chapters contributing to books.

A brief overview on the specific research areas, which have enjoyed my particular attention – listing my publications for in each field – is given in the following:

### MODELLING

- General **Object-Oriented Modelling** has been the underlying base for most work since 1998 [3], [55].
- **Model-Engineering** [7], [16], [17], [20], [21], [27], [63], [64] (since 2005) with focus on **Model-based Integration** [15], [18], [19], [25], [28] [29], [34], thereby following up earlier work on **Data integration / Databases** [52], [72].
- Specifically, **Aspect-Oriented Modelling** has been a recent field of interest [23], [26], [30], [58], [59], [61] (since 2006).

### DEVELOPMENT

- Since 1997, **Web Application Development** with focus on employing models, has been subject of my research attention [2], [4], [6], [38], [41], [42], [54], [63], [67], [70], [71], thereby specializing on **Ubiquitous Web Applications** [5], [6], [10], [40], [43], [44], [45], [47], [49], [50], [53], [62], [68], [69].
- The fields of **Situation-Awareness** [11], [20] and **Context-Awareness** [8], [9], [35], [48] have caught my attention since 2002.
- Since 2005, the employment of **Semantic Technologies** (ontologies) for the development of systems [22], [24], [33], [57], [61], [65] has been a research interest.

### APPLICATION DOMAINS

- An application area I have been working on has been **Electronic Commerce** since 2001 [39], [46], [51] and **Road Traffic Management Systems** since 2006 [22].
- Specifically, **Mobile Computing** with particular attention on **Mobile Tourism Guides** [1], [31], [32], [66], **Mobile Decision Support** [36], and **Cultural Heritage** [37] has served for evaluating my work since 2004.

## UNIVERSITY LECTURES

<p>Modelling Internet Applications</p> <p>COMBINED COURSE: types of web applications, requirements of web application development, modelling of web applications, ubiquitous web applications</p>	<p>3 ECTS</p>	<p>Johannes Kepler University Linz</p> <p>2008    spring    1 group</p>
<p>Übungen Softwareentwicklung 1</p> <p>EXERCISES COURSE: algorithms, procedural programming, stepwise-refinement, Java basics</p>	<p>3 ECTS</p>	<p>Johannes Kepler University Linz</p> <p>2008    spring    1 group  2007/08    winter    1 group  2006/07    winter    4 groups  2006    spring    1 group  2005/06    winter    1 group  2005    spring    2 groups  2004/05    winter    2 groups  2003/04    winter    2 groups</p>
<p>Übungen Softwareentwicklung 2</p> <p>EXERCISES COURSE: object-orientation, inheritance, dynamic binding, mutli-threading, frameworks, design patterns</p>	<p>3 ECTS</p>	<p>Johannes Kepler University Linz</p> <p>2008    spring    1 group  2006    spring    1 group  2005/06    winter    1 group  2005    spring    2 groups  2004    spring    3 groups  2003    spring    3 groups</p>
<p>Vorlesung Informatik 3</p> <p>LECTURE: Databases (data modelling, design, SQL)</p>	<p>2 ECTS</p>	<p>Upper Austria University of Applied Sciences Hagenberg</p> <p>1999/00    winter    1 group</p>
<p>Übung Informatik 3</p> <p>LECTURE: Databases (data modelling, design, SQL)</p>	<p>2 ECTS</p>	<p>Upper Austria University of Applied Sciences Hagenberg</p> <p>1999/00    winter    3 groups</p>
<p>Angewandte Informatik und gesellschaftliche Bezüge</p> <p>SEMINAR: Business intelligence systems in commercial companies</p>	<p>1,5 ECTS</p>	<p>Johannes Kepler University Linz</p> <p>1999/00    winter    3 group</p>

## INTERNATIONAL GUEST LECTURES

<p>WEE-Net Summer School Trento, ITA</p>	<p>2006 Jun</p>	<p>Overview on Web Engineering, Web Application Modelling and Ubiquitous Web Applications</p>
<p>University of Jyväskylä, FIN</p>	<p>2005 Oct</p>	<p>Model-Driven Development of Ubiquitous Web Applications – Theory and Practical Exercises</p>
<p>Politecnico di Milan, ITA</p>	<p>2004 Feb</p>	<p>Basics of Web-Appearences</p>
<p>University of Jyväskylä, FIN</p>	<p>2003 Sep</p>	<p>Model-Driven Development of Ubiquitous Web Applications – Theory and Practical Exercises</p>
<p>University of Skövde, SWE</p>	<p>2002 Nov</p>	<p>Ubiquitous Web Applications</p>
<p>University of Prague, CZE</p>	<p>2001 Jan</p>	<p>Web Applications Modelling</p>

## INDUSTRY SEMINAR:

<p>UML 2.0 &amp; MDA</p>	<p>2005 Nov</p>	<p>Industry seminar on UML 2.0 and model-driven software development</p>
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## CO-SUPERVISION OF PHD THESES

▪ Ubiquitous Services in Mobile Tourist Guides	ongoing	Grün Christoph
▪ Semantically Enhanced Version Control for Models	ongoing	Altmanninger Kerstin
▪ Ontology-Based Situation Awareness for Road Traffic Management	ongoing	Baumgartner Norbert
▪ Interaction Design for Alternative User Interfaces	ongoing	Grill Thomas
▪ Collaborative Group Decision as Mobile Processes	ongoing	Kronsteiner Reinhard
▪ Context-aware Assisted Living	ongoing	Mitsch Stefan
▪ T.R.O.P.I.C.: Transformations On Petri Nets In Colour	2008	Reiter Thomas
▪ From Mining to Mapping and Roundtrip Transformations - A Systematic Approach to Model-based Tool Integration	2008	Wimmer Manuel
▪ aspectUWA - Applying Aspect-Orientation to the Model-Driven Development of Ubiquitous Web Applications	2007	Schauerhuber Andrea

## CO-SUPERVISION OF MASTER THESES

▪ Evaluierung von CASE-Tools zur modellgetriebenen Entwicklung von Webanwendungen	ongoing	Geiseder Werner
▪ Entwicklung eines Webseiten-Annotationseditors für Adaptierungsoperationen	2007	Einböck Anita
▪ A Survey on Methods and Tools for Modeling Web Applications	2007	Schönbeck Andreas
▪ Mobile Tourist Guides – Evaluation of the State of the Art and Development of a Light-weight Framework for Location-based Services	2005	Grün Christoph
▪ Customization Framework for Enabling Ubiquitous Web Applications	2005	Helmingner Norbert
▪ Customization zur Realisierung Ubiquitärer Web-Anwendungen – Eine Evaluierung existierender Ansätze	2002	Eberle Martin
▪ Modeling Customisable Web Applications	2001	Hofer Thomas
▪ WebUML – UML zur Modellierung von DataWeb Applikationen	2000	Hartmann Werner
▪ WUML – Eine UML-basierte Modellierungssprache für ubiquitäre Web-Anwendungen	2000	Kogler Klaus

Additionally, co-supervision of several practical student projects.

## PROJECT RECORD

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MODEL CVS	2006 Jan – 2007 Dec	FIT-IT Semantic Systems funded research project aiming at the development of a semantic infrastructure for metamodel-based tool integration [FFG FIT-IT 810806]	Technical Manager JKU
WEE-NET	2005 Sep – 2007 Sep	EU-funded ALFA Web Engineering Network of Excellence [EuropeAid II-0359-FA]	Technical Manager JKU
MEDINA	2002 Mar - 2006 Sep	EU-funded EUMEDIS project developing a Mediterranean internet portal for cultural tourism [EUMEDIS IST B74100/2000/2165-071P314]	Technical Manager JKU/ WP Leader
UBIQUITY ENGINEERING	2002 Jun - 2003 Mar	Kplus funded strategic research project aiming at the support of g ubiquitous web applications with tools	Project Manager
CUSTWEB	2000 Jun - 2002 Aug	Kplus funded strategic research project envisioning a modelling method for customizable Web applications	Project Manager
UWA	2000 Jan - 2003 Apr	EU funded 5th framework research project providing a modelling method for ubiquitous web applications [EC IST-2000-25131]	Technical Expert
COSMO	2001 Jul - 2003 Jun	Kplus funded project defining a conceptual modeling method comprising security aspects	Consultant
OXYGEN	2001 Apr - 2001 Oct	Kplus funded research project evaluating the state of the art in ubiquitous business	Consultant
HYDROGEN	2001 Oct - 2002 Jul	Kplus funded research project developing prototypical applications in mobile and ad hoc computing	Consultant
WEB TESTING	2001 Sep - 2002 May	Kplus funded research project developing a general approach supported by methods and tools for testing Web applications	Consultant
JKU-FO DOK	1996 Jul - 1997 Feb	Development project building a web-based research documentation system for the Johannes Kepler University Linz	Technical Expert

## EDITORIAL BOARD MEMBERSHIP

- INTERNATIONAL JOURNAL OF WEB-ENGINEERING AND TECHNOLOGY (IJWET)  
Inderscience Publishers, UK, ISSN 1476-1289

## PROGRAM COMMITTEE MEMBERSHIPS

- International Workshop on Authoring of Adaptive and Adaptable Hypermedia (A3H)
- International Workshop on Adaptation and Evolution in Web Systems Engineering (AEWSE)
- Euro American Conference on Telematics and Information Systems (EATIS)
- International Conference on Web Engineering (ICWE)
- International Conference on Information Integration and Web Based Applications & Services (IIWAS)
- Latin American Web Congress (LaWeb)
- International Workshop on Location- and Context-Awareness (LoCA)
- Web Technologies and Applications Track at the ACM Symposium on Applied Computing (SAC),
- Workshop on Semantic Approaches for Engineering Complex Software-intensive Systems (SAECSIS)
- IEEE Symposium on Web Site Evolution (WSE)
- International Conference on Web Technologies, Applications, and Services (WTAS)
- International World Wide Web Conference – Web Engineering Track (WWW)
- Journal of Universal Computer Science (J.UCS), special issue: "Authoring of Adaptive and Adaptable Hypermedia"

## JOURNAL REVIEWS

- DATA AND KNOWLEDGE ENGINEERING, ELSEVIER, USA, ISSN 0169-023X
- ETRI JOURNAL, ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, KOREA, ISSN 1225-6463
- INFORMATION AND SOFTWARE TECHNOLOGY, ELSEVIER, USA, ISSN 0950-5849
- INTERNATIONAL JOURNAL OF WEB ENGINEERING AND TECHNOLOGY (IJWET), ISSN 1476-1289
- JOURNAL OF WEB ENGINEERING (JWE), Rinton Press, USA, ISSN 1540-9589

## CONFERENCE REVIEWS

- European Conference on Object-Oriented Programming (ECOOP)
- Advanced Information Systems Engineering (CAISE)
- International Conference on Extending Database Technology (EDBT)
- International Conference on Database and Expert Systems Applications (DEXA)

## INTERNATIONAL PHD THESIS REVIEWS

- Santiago Meliá, "Web-SA: A Model-Driven Development Approach for Web Applications", UNIVERSITY OF ALICANTE, SPAIN, 2007.
- Cristina Cachero Castro, "OO-H: una extensión a los métodos OO para el modelado y generación automática de interfaces hipermediales", UNIVERSITY OF ALICANTE, SPAIN, 2002.



## **CONFERENCE ORGANIZATION**

- 1<sup>st</sup> International Workshop on Ubiquitous Web Applications, Nov. 2008
- Finance chair of IIWAS 2001
- Co-editor of IIWAS 2002 proceedings
- Member of organizing committee of ECOOP 1996, IIWAS 2001, and IIWAS 2002

## **SOCRATES EXCHANGE COORDINATION**

Newly established exchange for the Department of Telecooperation, JKU:

- University of Jyväskylä, Finland
- University of Skövde, Sweden

Responsible coordinator during employment at the Department of Information Systems, JKU:

- Copenhagen Business School (CBS), Denmark
- Högskolan i Växjö, Sweden
- Politecnico di Milano, Italy
- Rijksuniversiteit Leiden, Netherlands
- University of Jyväskylä, Finland
- University of Southampton, United Kingdom
- Universidade do Minho, Portugal

## **DUTIES IN THE UNIVERSITY ADMINISTRATION**

- Vice Head of the Department of Telecooperation, Johannes Kepler University Linz
- Member of the Board of Faculty of the School of Technical and Natural Sciences, Johannes Kepler University Linz

## **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

- Euro American Association on Telematics and Information Systems (founding member)
- Member of the MDWEnet Initiative

## BOOK CHAPTERS

### 2008:

- [1] "Context-Awareness in Mobile Tourism Guides". Co-Authors: Grün Christoph, Pröll Birgit, Retschitzegger Werner. Book chapter. In: HANDBOOK OF RESEARCH IN MOBILE MULTIMEDIA, 2<sup>nd</sup> edition, Khalil-Ibrahim Ismail (ed.), IGI Global, USA, 2008.

### 2006:

- [2] "Modeling Web Applications". Co-Author: Koch Nora. Book chapter. In: WEB ENGINEERING – THE DISCIPLINE OF SYSTEMATIC DEVELOPMENT OF WEB APPLICATIONS, Kappel Gerti, Pröll Birgit, Reich Siegfried, Retschitzegger Werner (eds.), Wiley Publishers, ISBN 0-470-01554-3, June 2006.

### 2005:

- [3] "Das Aktivitätsdiagramm". Book chapter. In: UML@WORK – OBJEKTORIENTIERTE MODELLIERUNG MIT UML2, Hitz Martin, Kappel Gerti, Retschitzegger Werner, Kapsammer Elisabeth, dpunkt-Verlag, ISBN 3-89864-261-5, September 2005.

### 2003:

- [4] "Modellierung von Web-Anwendungen". Co-Author: Koch Nora. Book chapter. In: WEB ENGINEERING – SYSTEMATISCHE ENTWICKLUNG VON WEB-ANWENDUNGEN, Kappel Gerti, Pröll Birgit, Reich Siegfried, Retschitzegger Werner (eds.), dpunkt-Verlag, ISBN-3-89864-234-8, Oktober 2003.

### 2002:

- [5] "Ein UML-basiertes Framework zur Modellierung ubiquitärer Web-Anwendungen". Co-Authors: Hitz Martin, Kappel Gerti, Retschitzegger Werner. Book chapter. In: UML@work 2, Hitz Martin, Kappel Gerti (eds.), dpunkt-Verlag, ISBN 3-89864-194-5, September 2002.

## REFEREED JOURNAL PUBLICATIONS

### 2008:

- [6] "A Survey on Web Modeling Approaches for Ubiquitous Web Applications". Co-Authors: Retschitzegger Werner, Schauerhuber Andrea, Kappel Gerti, Wimmer Manuel, Pröll Birgit, Cachero Cristina, Casteleyn Sven, De Troyer Olga, Fraternali Piero, Garrigós Irene, Garzotto Franca, Ginige Athula, Houben Geert-Jan, Koch Nora, Moreno Nathalie, Pastor Oscar, Paolini Paolo, Pelechano Vicente, Rossi Gustavo, Schwabe Daniel, Tisi Massimo, Vallecillo Antonio, van der Sluijs Kees, Zhang Gefei. In: INTERNATIONAL JOURNAL OF WEB INFORMATION SYSTEMS (IJWIS), Emerald, USA, Issue 3, ISSN 1744-0084, 2008 (to appear).

### 2007:

- [7] "Bridging WebML to Model-Driven Engineering: From DTDs to MOF". Co-Authors: Kappel Gerti, Kapsammer Elisabeth, Schauerhuber Andrea, Wimmer Manuel, Retschitzegger Werner. In: IET SOFTWARE, Volume 1, Issue 3, The Institution of Engineering and Technology, ISSN 1751-8806, June 2007.

### 2004:

- [8] "Context-Awareness and Artificial Intelligence". Co-Authors: Pichler Mario, Bodenhofer Ulrich. In: ÖGAI-JOURNAL, Österreichische Gesellschaft für Artificial Intelligence (ÖGAI), 23/1, ISSN 0254-4326, April 2004.

### 2003:

- [9] "Customisation for Ubiquitous Web Applications – A Comparison of Approaches". Co-Authors: Kappel Gerti, Pröll Birgit, Retschitzegger Werner. In: INTERNATIONAL JOURNAL OF WEB ENGINEERING AND TECHNOLOGY (IJWET), Vol. 1, Issue 1, Inderscience Publishers, ISSN 1476-1289, January 2003.

### 2002:

- [10] "Ein UML-basiertes Framework zur Modellierung ubiquitärer Web-Anwendungen". Co-Authors: Hitz Martin, Kappel Gerti, Retschitzegger Werner. In: WIRTSCHAFTSINFORMATIK, Volume 44, Issue 3, Vieweg Verlag, ISSN 0937-6429, June 2002.

## REFEREED CONFERENCE / WORKSHOP PUBLICATIONS

### 2008:

- [11] "Assisting Tourists on the Move - An Evaluation of Mobile Tourist Guides". Co-Authors: Christoph Grün, Hannes Werthner, Birgit Pröll, Werner Retschitzegger. In: PROCEEDINGS OF THE 7<sup>TH</sup> INTERNATIONAL CONFERENCE ON MOBILE BUSINESS (ICMB 2008), Barcelona, Spain, July 2008 (to appear).
- [12] "Application Scenarios of Ontology-Driven Situation Awareness Systems - Exemplified for the Road Traffic Management Domain", Co-Authors: Norbert Baumgartner, Werner Retschitzegger. In: Proceedings OF THE 3<sup>RD</sup> WORKSHOP ON FORMAL ONTOLOGIES MEET INDUSTRY (FOMI 2008), ISO Press, Torino, Italy, June 2008.
- [13] "A Framework for Building Mapping Operators - Resolving Structural Heterogeneities". Co-Authors: Gerti Kappel, Horst Kargl, Thomas Reiter, Werner Retschitzegger, Michael Strommer, and Manuel Wimmer. In: PROCEEDINGS OF THE 7<sup>TH</sup> "UNITED INFORMATION SYSTEMS CONFERENCE (UNISCON 2008), Klagenfurt, Austria, April 2008 (invited paper).
- [14] "A Software Architecture for Ontology-Driven Situation Awareness". Co-Authors: Baumgartner Norbert, Retschitzegger Werner. In: PROCEEDINGS OF THE 23<sup>RD</sup> ANNUAL ACM SYMPOSIUM ON APPLIED COMPUTING (ACM SAC), Fortaleza, Ceará, Brazil, March 2008.

### 2007:

- [15] "Exploring Model Engineering Techniques for the Integration of Heterogeneous Context Models". In: PROCEEDINGS OF THE 5<sup>TH</sup> INTERNATIONAL CONFERENCE ON ADVANCES IN MOBILE COMPUTING & MULTIMEDIA (MOMM2007), OCG, ISBN 978-3-85403-230-4, Jakarta, Indonesia, December 2007. Selected for the JOURNAL OF MOBILE MULTIMEDIA, Volume 3, Issue 2, Rinton Press, ISSN 1550-4646, Princeton, USA.
- [16] "Semantically Enhanced Conflict Detection between Model Versions in SMOVer by Example". Co-Authors: Altmanninger Kerstin, Bergmayr Alexander, Kotsis Gabriele. To appear in: PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON SEMANTIC-BASED SOFTWARE DEVELOPMENT, in conjunction with INTERNATIONAL CONFERENCE ON OBJECT-ORIENTED PROGRAMMING, SYSTEMS, LANGUAGES AND APPLICATIONS (OOPSLA 2007), Montréal, Canada, October 2007.
- [17] "A Semi-automatic Approach for bridging DSLs with UML". Co-Authors: Manuel Wimmer, Andrea Schauerhuber, Michael Strommer, Gerti Kappel. In: PROCEEDINGS OF THE 7<sup>TH</sup> OOPSLA WORKSHOP ON DOMAIN-SPECIFIC MODELING (DSM'07), in conjunction with INTERNATIONAL CONFERENCE ON OBJECT-ORIENTED PROGRAMMING, SYSTEMS (OOPSLA 2007), LANGUAGES AND APPLICATIONS, ISBN 978 951 39-2915-2, Montréal, Canada, October 2007.
- [18] "MDWEnet: A Practical Approach to Achieving Interoperability of Model-Driven Web Engineering Methods". Co-Authors: Vallecillo Antonio, Koch Nora, Cachero Cristina, Comai Sara, Fraternali Piero, Garrigós Irene, Gómez Jaime, Kappel Gerti, Knapp Andreas, Matera Maristella, Meliá Santiago, Moreno Nathalie, Pröll Birgit, Reiter Thomas, Retschitzegger Werner, Rivera José E., Schauerhuber Andrea, Wimmer Manuel, Zhang Gefei. In: PROCEEDINGS OF THE 3<sup>RD</sup> INTERNATIONAL WORKSHOP ON MODEL-DRIVEN WEB ENGINEERING (MDWE 2007), in conjunction with INTERNATIONAL CONFERENCE ON WEB ENGINEERING, ISBN 978 88 902405-2-2, Como Italy, July 2007.
- [19] "On the Integration of Web Modeling Languages: Preliminary Results and Future Challenges". Co-Authors: Wimmer Manuel, Schauerhuber Andrea, Kargl Horst. In: PROCEEDINGS OF THE 3<sup>RD</sup> INTERNATIONAL WORKSHOP ON MODEL-DRIVEN WEB ENGINEERING (MDWE 2007), in conjunction with INTERNATIONAL CONFERENCE ON WEB ENGINEERING, ISBN 978-88-902405-2-2, Como Italy, July 2007.
- [20] "Of Situations and Their Neighbors: Evolution and Similarity in Ontology-Based Approaches to Situation Awareness". Co-Authors: Baumgartner Norbert, Retschitzegger Werner, Kotsis Gabriele, Schwietering Christoph. In: PROCEEDINGS OF THE 6<sup>TH</sup> INTERNATIONAL AND INTERDISCIPLINARY CONFERENCE ON MODELING AND USING CONTEXT (CONTEXT 2007), Springer, Lecture Notes in Computer Science (LNCS 4635), ISBN 978-3-540-74254-8, Roskilde, Denmark, August 2007.
- [21] "Models In Conflict – Detection of Semantic Conflicts in Model-based Development". Co-Authors: Reiter Thomas, Altmanninger Kerstin, Bergmayr Alexander, Kotsis Gabriele. In: PROCEEDINGS OF 3<sup>RD</sup> INTERNATIONAL WORKSHOP ON MODEL-DRIVEN ENTERPRISE INFORMATION SYSTEMS (MDEIS-2007), in conjunction with 9<sup>TH</sup> INTERNATIONAL CONFERENCE ON ENTERPRISE INFORMATION SYSTEMS, Funchal, Madeira – Portugal, June 2007.

[22] "Lost in Space and Time and Meaning – An Ontology-Based Approach to Road Traffic Situation Awareness". Co-Authors: Baumgartner Norbert, Retschitzegger Werner. In: PROCEEDING OF 3<sup>RD</sup> WORKSHOP ON CONTEXT AWARENESS FOR PROACTIVE SYSTEMS (CAPS 2007), Guildford, United Kingdom, June 2007.

[23] "Aspect-Oriented Modeling of Ubiquitous Web Applications: The aspectWebML Approach". Co-Authors: Schauerhuber Andrea, Wimmer Manuel, Kapsammer Elisabeth, Retschitzegger Werner. In: PROCEEDINGS OF THE 14TH ANNUAL IEEE INTERNATIONAL CONFERENCE AND WORKSHOPS ON THE ENGINEERING OF COMPUTER-BASED SYSTEMS (MBD/ECBS 2007), IEEE Computer Society, ISBN 0-7695-2772-8, Tucson, Arizona, USA, March 2007.

#### **2006:**

[24] "Lifting Metamodels to Ontologies: A Step to the Semantic Integration of Modeling Languages". Co-Authors: Kappel Gerti, Kapsammer Elisabeth, Kargl Horst, Kramler Gerhard, Reiter Thomas, Retschitzegger Werner, Wimmer Manuel. In: PROCEEDING OF ACM/IEEE 9<sup>TH</sup> INTERNATIONAL CONFERENCE ON MODEL DRIVEN ENGINEERING LANGUAGES AND SYSTEMS (MODELS/UML 2006), Springer, Lecture Notes in Computer Science (LNCS 4199), ISBN 978-3-540-45772-5, Genova, Italy, October 2006.

[25] "Model-Based Tool Integration – State of the Art and Future Perspectives". Co-Authors: Kapsammer, Elisabeth, Reiter Thomas. In: PROCEEDINGS OF THE 3<sup>RD</sup> INTERNATIONAL CONFERENCE ON CYBERNETICS AND INFORMATION TECHNOLOGIES, SYSTEMS AND APPLICATIONS (CITSA 2006), IIS, ISBN 980-6560-83-3, Orlando, USA, July 2006.

[26] "Enabling API-based Tool Integration through Aspect-Orientation". Co-Authors: Reiter Thomas, Retschitzegger Werner, Schauerhuber Andrea, Kapsammer Elisabeth. In: PROCEEDINGS OF 2<sup>ND</sup> WORKSHOP ON MODELS AND ASPECTS – HANDLING CROSSCUTTING CONCERNS IN MDSD, in conjunction with European Conference on Object-Oriented Programming (ECOOP 2006), Nantes, France, July 2006.

[27] "A Generator Framework for Domain-Specific Model Transformation Languages". Co-Authors: Kapsammer, Elisabeth, Reiter Thomas, Retschitzegger Werner, Stumpner Martin. In PROCEEDINGS OF 8<sup>TH</sup> INTERNATIONAL CONFERENCE ON ENTERPRISE INFORMATION SYSTEMS (ICEIS 2006), INSTICC Press, ISBN 972-8865-41-4, Paphos, Cyprus, May 2006.

[28] "Towards A Semantic Infrastructure Supporting Model-based Tool Integration". Co-Authors: Kappel Gerti, Kapsammer Elisabeth, Kramler Gerhard, Reiter Thomas, Retschitzegger Werner. In: PROCEEDINGS OF THE 1<sup>ST</sup> INTERNATIONAL WORKSHOP ON GLOBAL INTEGRATED MODEL MANAGEMENT (GAMMA 2006), ACM Press, ISBN 1-59593-410-3, Shanghai, China, May 2006.

[29] "On Models and Ontologies – A Layered Approach for Model-based Tool Integration". Co-Authors: Kappel Gerti, Kapsammer Elisabeth, Kargl Horst, Kramler Gerhard, Reiter Thomas, Retschitzegger Werner, Wimmer Manuel. In: PROCEEDINGS OF MODELLIERUNG 2006, Lecture Notes in Informatics (LNI), Köllen Druck + Verlag GmbH, ISBN 3-88579-176-5, Innsbruck, Austria, March 2006.

[30] "Towards a Common Reference Architecture for Aspect-Oriented Modeling". Co-Authors: Schauerhuber Andrea, Kapsammer Elisabeth, Retschitzegger Werner, Wimmer Manuel. In: PROCEEDINGS OF THE 8<sup>TH</sup> INTERNATIONAL WORKSHOP ON ASPECT-ORIENTED MODELING (AOM 2006), electronic proceedings, Bonn, Germany, March 2006.

[31] "Pinpointing Tourism Information onto Mobile Maps – A Light-Weight Approach". Co-Authors: Grün Christoph, Pröll Birgit, Retschitzegger Werner, Werthner Hannes. In: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INFORMATION AND COMMUNICATION TECHNOLOGY IN TOURISM (ENTER 2006), Springer, ISBN 978-3-211-30987-2, Lausanne, Switzerland, January 2006.

**2005:**

- [32] "A light-weight Framework for Location-based Services". Co-Authors: Grün Christoph, Pröll Birgit, Retschitzegger Werner. In: PROCEEDINGS OF THE OTM 2005 WORKSHOP ON CONTEXT-AWARE MOBILE SYSTEMS (CAMS 2005), Springer, Lecture Notes in Computer Science (LNCS 3762), ISBN 3-540-29739-1, Agia Napa, Cyprus, October/November 2005.
- [33] "Towards an Ontology-based Customization Approach for Supporting People with Special Needs". Co-Authors: Retschitzegger Werner, Pühretmair Franz, Nussbaum Gerhard. In: PROCEEDINGS OF THE 7<sup>TH</sup> INTERNATIONAL CONFERENCE ON INFORMATION INTEGRATION AND WEB BASED APPLICATIONS & SERVICES (IIWAS 2005), OCG, ISBN 3-85403-196-3, Kuala Lumpur, Malaysia, September 2005.
- [34] "Model Integration Through Mega Operations". Co-Authors: Reiter Thomas, Kapsammer Elisabeth, Retschitzegger Werner. In: PROCEEDINGS OF THE WORKSHOP ON MODEL-DRIVEN WEB ENGINEERING (MDWE 2005), University of Wollongong, Sydney, ISBN 1-74128-105-9, Sydney, Australia, July 2005.
- [35] "Bridging Relational Databases to Context-Aware Services". Co-Authors: Kapsammer Elisabeth, Retschitzegger Werner. In: PROCEEDINGS OF THE CAISE WORKSHOP UBIQUITOUS MOBILE INFORMATION AND COLLABORATION SYSTEMS (UMICS 2005), FEUP, ISBN 972-752-077-4, Porto, Portugal, June 2005.

**2004:**

- [36] "Personal Decision Support through Mobile Computing". Co-Author: Kronsteiner Reinhard. In: PROCEEDINGS OF THE 2<sup>ND</sup> INTERNATIONAL CONFERENCE ON ADVANCES IN MOBILE MULTIMEDIA (MOMM 2004), OCG, ISBN 3-85403-184-X, Bali, Indonesia, September 2004.
- [37] "Ubiquitous Access to Cultural Tourism Portals". Co-Author: Garzotto Franca, Paolini Paolo, Speroni Marco, Pröll Birgit, Retschitzegger Werner. In: PROCEEDINGS OF THE 3<sup>RD</sup> INTERNATIONAL WORKSHOP ON PRESENTING AND EXPLORING HERITAGE ON THE WEB (PEH 2004), in conjunction with DEXA 2007, IEEE Computer Society Press, ISBN 0-7695-2195-9, Zaragoza, Spain, August/September 2004.
- [38] "Making Quality a First-Class Citizen in Web Engineering". Co-Authors: Grünbacher Paul, Ramler Rudolf, Retschitzegger Werner. In: PROCEEDINGS OF THE 2<sup>ND</sup> WORKSHOP ON SOFTWARE QUALITY (SQW), in conjunction with the International Conference on Software Engineering (ICSE 2004), Institution of Engineering and Technology, ISBN 0-86341-428-1, Edinburgh, Scotland, United Kingdom, May 2004.

**2003:**

- [39] "Mapping Abstractions of Norms in Electronic Institutions". Co-Authors: Khalil Ibrahim Ismail, Kotsis Gabriele. In: PROCEEDINGS OF THE 12<sup>TH</sup> IEEE INTERNATIONAL WORKSHOP ON ENABLING TECHNOLOGIES: INFRASTRUCTURES FOR COLLABORATIVE ENTERPRISES (WETICE 2003), IEEE Computer Society, ISBN 0-7695-1963-6, Linz, Austria, June 2003.

**2002:**

- [40] "Ubiquitous Web Applications". Co-Authors: The UWA Consortium. In: PROCEEDINGS OF THE EBUSINESS AND EWORK CONFERENCE (E-2002), IOS Press, ISBN 1-58603-284-4, Prague, Czech Republic, October 2002.
- [41] "Web Engineering for Intranets: Rethinking Software Engineering". Co-Authors: Khalil-Ibrahim Ismail, Weippl Edgar, Winiwarter Werner. In: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INFORMATION INTEGRATION AND WEB-BASED APPLICATIONS AND SERVICES (IIWAS 2002), SCS-European Publishing House, ISBN 3-936150-18-4, Bandung, Indonesia, September 2002.
- [42] "A Quality-Driven Approach to Web Testing". Co-Authors: Ramler Rudolf, Weippl Edgar, Winterer Mario, Altmann Josef. In: PROCEEDINGS OF IBERO AMERICAN CONFERENCE ON WEB ENGINEERING 2002 (ICWE 2002), Anales JAIIO, ISSN 1666-114, Santa Fe, Argentina, September 2002.
- [43] "Ubiquitous Web Application Development – A Framework for Understanding". Co-Authors: Finkelstein Anthony, Savigni Andrea, Kappel Gerti, Retschitzegger Werner, Pröll Birgit, Kimmerstorfer Eugen, Hofer Thomas, Feichtner Christian. In: PROCEEDINGS OF THE 6<sup>TH</sup> MULTICONFERENCE ON SYSTEMICS, CYBERNETICS AND INFORMATICS (SCI 2002), Web-Engineering Track, ISBN 980-07-8150-1, Orlando, Florida, USA, July 2002.
- [44] "The UWA Approach to Modeling Ubiquitous Web Applications". Co-Authors: The UWA Consortium. In: PROCEEDINGS OF THE IST MOBILE & WIRELESS TELECOMMUNICATIONS SUMMIT, ISBN 960-91918-0-0, Thessaloniki, Greece, June 2002.

- [45] "Towards a Generic Customisation Model for Ubiquitous Web Applications". Co-Authors: Kappel Gerti, Retschitzegger Werner, Kimmerstorfer Eugen, Pröll Birgit, Hofer Thomas. In: PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON WEB-OBJECT TECHNOLOGY (IWWOST 2002), Malaga, Spain, June 2002.
- [46] "Modeling Norms in Electronic Institutions". Co-Authors: Dignum Frank, Khalil-Ibrahim Ismail, Weippl Edgar. In: PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON AGENT-BASED SIMULATION (ABS 2002), SCS European Publishing House, ISBN 3-936150-17-6, Passau, Germany, April 2002.
- [47] "Customising Web Applications Towards Ubiquity – The Notation and the Issues". Co-Authors: Kappel Gerti, Retschitzegger Werner, Kimmerstorfer Eugen, Pröll Birgit, Hofer Thomas. In: W3C WORKSHOP ON DELIVERY CONTEXT, Extended Position Paper, INRIA, Sophia-Antipolis, France, March 2002.
- [48] "Context-Awareness on Mobile Devices – The Hydrogen Approach". Co-Authors: Hofer Thomas, Pichler Mario, Leonhartsberger Gerhard, Altmann Josef, Retschitzegger Werner. In: PROCEEDINGS OF THE 36<sup>TH</sup> HAWAIIAN INTERNATIONAL CONFERENCE ON SYSTEM SCIENCE (HICSS-36), MINITRACK ON MOBILE DISTRIBUTED INFORMATION SYSTEMS, IEEE Computer Society, ISBN 0-7695-1874-5, Waikoloa Village, Big Island, Hawaii, January 2002.

#### **2001:**

- [49] "Modeling Ubiquitous Web Applications – The WUML Approach". Kappel Gerti, Retschitzegger Werner. In: PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON DATA SEMANTICS IN WEB INFORMATION SYSTEMS (DASWIS 2001), Springer, Lecture Notes in Computer Science (LNCS 2465), ISBN 3-540-44122-0, Yokohama, Japan, November 2001.
- [50] "Modeling Ubiquitous Web Applications – A Comparison of Approaches". Co-Authors: Kappel Gerti, Retschitzegger Werner, Hofer Thomas. In: PROCEEDINGS OF THE 3<sup>RD</sup> INTERNATIONAL CONFERENCE ON INFORMATION INTEGRATION AND WEB-BASED APPLICATIONS AND SERVICES (IIWAS 2001), OCG, ISBN 3-85403-157-2, Linz, Austria, September 2001.
- [51] "Agent Solutions for E-business Transactions". Co-Authors: Khalil-Ibrahim Ismail, Weippl Edgar, Altmann Josef, Winiwarter Werner. In: PROCEEDINGS OF THE 12<sup>TH</sup> INTERNATIONAL WORKSHOP ON DATABASE AND EXPERT SYSTEMS APPLICATIONS (DEXA 2001), IEEE Computer Society Press, ISBN 0-7695-1230-5, Munich, Germany, September 2001.
- [52] "Data Integration in Digital Libraries: Approaches and Challenges". Co-Author: Khalil-Ibrahim Ismail. In: PROCEEDINGS OF THE INTERNATIONAL SEMINAR ON DIGITAL LIBRARY AND KNOWLEDGE MANAGEMENT (IDLN 2001), Bandung, Indonesia, June 2001.

#### **2000:**

- [53] "Modeling Customizable Web Applications – A Requirement's Perspective". Co-Authors: Kappel Gerti, Retschitzegger Werner. In: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON DIGITAL LIBRARIES: RESEARCH AND PRACTICE (ICDL 2000), IEEE Computer Society, ISBN 0-7695-1022-1, Kyoto, Japan, November 2000.
- [54] "Towards Modeling of Data Web Applications – A Requirements' Perspective". Co-Author: Retschitzegger Werner. In: PROCEEDINGS OF AMERICAS CONFERENCE ON INFORMATION SYSTEMS (AMCIS 2000), Association for Information Systems, Long Beach, USA, August 2000. **Awarded BEST PAPER** in technical track.

#### **1998:**

- [55] "A Comparison of Role Mechanisms in Object-Oriented Modeling". Co-Authors: Kappel Gerti, Retschitzegger Werner. In: PROCEEDINGS OF MODELLIERUNG'98, K. Pohl, A. Schürr, G. Vossen (eds), Bericht Nr. 6/98-I, Angewandte Mathematik und Informatik, Münster, Germany, March 1998.

## POSTERS

### 2007:

- [56] "Models in Conflict – A Semantically Enhanced Version Control System for Models ". Co-Authors: Altmanninger Kerstin, Kotsis Gabriele, Retschitzegger Werner. Poster at the ACM/IEEE 10<sup>th</sup> International Conference On Model Driven Engineering Languages And Systems (MODELS 2007), Nashville, TN, September / October, 2007.

### 2006:

- [57] "From Models to Ontologies and Back Again: The ModelCVS Approach for Integrating Modeling Tools". Co-Authors: Altmanninger Kerstin, Kappel Gerti, Kapsammer Elisabeth, Kargl Horst, Kotsis Gabriele, Kramler Gerhard, Reiter Thomas, Retschitzegger Werner, Seidl Martina, Strommer Michael, Wimmer Manuel. Posters Exhibition at the 9<sup>th</sup> ACM/IEEE INTERNATIONAL CONFERENCE ON MODEL DRIVEN ENGINEERING LANGUAGES AND SYSTEMS (MODELS / UML 2006), Genova, Italy, October 2006.
- [58] "aspectUWA: Applying Aspect-Oriented to the Model-Driven Development of Ubiquitous Web Applications". Co-Author: Schauerhuber Andrea. Student Extravaganza: Poster Event. In conjunction with: 5<sup>th</sup> INTERNATIONAL CONFERENCE ON ASPECT-ORIENTED SOFTWARE DEVELOPMENT (AOSD 2006), Bonn, Germany, March, 2006.

## PUBLICATIONS IN PROGRESS

- [59] "A Survey on Aspect-Oriented Modelling Approaches". Co-Authors: Kappel Gerti, Kapsammer Elisabeth, Schauerhuber Andrea, Wimmer Manuel, Retschitzegger Werner. Intended for: ACM COMPUTING SURVEY, 2008.

## OTHER PUBLICATIONS

### 2007:

- [60] "Applying Aspect-Oriented to WebML". Co-Authors: Retschitzegger Werner, Schauerhuber Andrea. Technical Report, Johannes Kepler University Linz, November 2007.
- [61] "A Survey on Aspect-Oriented Modelling Approaches". Co-Authors: Kappel Gerti, Kapsammer Elisabeth, Schauerhuber Andrea, Wimmer Manuel, Retschitzegger Werner. Technical Report, Vienna University of Technology, October 2007.
- [62] "A Survey on Web Modeling Approaches for Ubiquitous Web Applications". Co-Authors: Andrea Schauerhuber, Wieland Schwinger, Werner Retschitzegger, Manuel Wimmer, and Gerti Kappel. Technical Report, Vienna University of Technology, October 2007.
- [63] "How Web 2.0 can leverage Model Engineering in Practice" Co-Authors: Wimmer Manuel, Schauerhuber Andrea, Strommer Michael, Flandorfer Jürgen. Demo poster.
- [64] "Model in Conflict – A Semantically Enhanced Version Control System for Models". Co-Author: Altmanninger Kerstin, Poster.

### 2005:

- [65] "ModelCVS – A Semantic Infrastructure for Model-based Tool Integration". Co-Authors: Kappel Gerti, Kramler Gerhard, Kapsammer Elisabeth, Reiter Thomas, Retschitzegger Werner. Technical Report, Department of Information Systems, JKU, IFS 07/05, November 2005.
- [66] "Context-awareness in Mobile Tourism Guides". Co-Authors: Grün Christoph, Schauerhuber Andrea, Retschitzegger Werner. Technical Report, Department of Information Systems, JKU, IFS 04/05, July 2005.

### 2002:

- [67] "Testing Web Quality Aspects". Co-Authors: Ramler Rudolf, Altmann Josef. Technical Report, Software Competence Center Hagenberg, SCCH-TR-0216, March 2002.

**2001:**

[68] "Modelling Ubiquitous Web Applications – Requirements and Concepts". PhD Thesis, Department of Information Systems, JKU, November 2001.

[69] "Ubiquitous Web Application Development – A Framework for Understanding". Co-Authors: Finkelstein Anthony, Savigni Andrea, Kappel Gerti, Retschitzegger Werner, Pröll Birgit, Kimmerstorfer Eugen, Hofer Thomas, Feichtner Christian. Technical Report, Department of Information Systems, JKU, IFS 08/01, July 2001.

**1998:**

[70] "A Web-Based Research Documentation System - An Experience Report". Co-Author: Retschitzegger Werner. Technical Report, Department of Information Systems, JKU, IFS 02/98, Austria, January 1998.

**1997:**

[71] "JKU-FoDok: Research Documentation of the Johannes Kepler University Linz – A Research Information System as Relation Database Connected to the World-Wide-Web Using the Common Gateway Interface". Master Thesis, Department of Information Systems, JKU, October 1997.

**1995:**

[72] "ECCA – Logical Events in ECA Rules". Master Thesis, University of Skövde, December 1995.



## NOTEABLES

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- BEST PAPER AWARD in Technical Track at Americas Conference on Information Systems (AMCIS 2000), Long Beach, USA, August 2000
- LONG TERM EXPERIENCE ABROAD:  
1 ½ years living and studying in Sweden
- ATTENDED SEVERAL TRAINING COURSES ON ORACLE DEVELOPMENT TOOLS  
Oracle Developer, Oracle Designer, Application Server, etc.
- ATTENDED TRAINING FOR PROJECT MANAGERS  
Communication, conflict management, project management
- LANGUAGE CAPABILITIES:  
German (native), English (fluent), Swedish (fluent), Italian (basic)
- SOCRATES-COORDINATOR at the Department of Telekooperation, previously coordinator at the Department of Information Systems
- RESPONSIBLE FOR INTERNATIONAL RELATIONS AND RESEARCH FUNDING at the SCCH

## REFERENCES

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