

Curriculum Vitae

Univ.-Doz. Dr. Siegfried Reich

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Personal Record

Date of Birth: November 30, 1967

Citizenship: Austria

Marital Status: married, daughter Katharina Franziska, son Sebastian Felix

1987-1992

Study of applied computer science at the Johannes Kepler University of Linz, Austria (May 8, 1992).

Title of master thesis: *Plausibilitätskontrollen im Rahmen eines objektorientierten Interface-Editors* (Plausibility Checks within the Framework of an Object-Oriented Interface Editor).

Supervisor Prof. Dr. Arno Schulz.

1992-1995

Ph.D. study at the University of Vienna, Austria (July 7, 1995).

Title of Ph.D. thesis: *De Modo Operandi: Towards the Interoperability of Workflow Information*.

Supervisors Prof. Dr. A Min Tjoa and Prof. Drs. Gerald Quirchmayr.

2000

Habilitation (*venia docendi*) for applied computer science at the Faculty of Natural Sciences and Engineering of the University of Linz, Austria (November 22, 2000).

Title of Habilitation: *Hypermedia Information Systems*.

Research Record

Software and Web-Engineering

Software-Engineering (OOD, OOP) in C++ using the application framework ET++ [1, 28, 58]. Object-oriented design and programming in Java [4, 79]. Web Engineering with a focus on software architectures for Web applications [82, 10, 44, 41, 22, 63, 90].

Structured Documents

Document management and structured documents with the focus on the use of SGML and HyTime for supporting re-use of contents [18, 19, 32, 36, 34].

Workflow management within the domain of electronic publishing with the focus on enabling interoperability of time-dependent, structured information such as workflow information [33, 35, 71, 76]. See also the dissertation [2, 13].

Electronic Publishing and Content Engineering

Electronic Publishing, distributed information systems and database connectivity [45, 39, 46, 72, 83]. Digital Content Engineering with a focus on content models [43, 57, 14, 16, 26, 8].

Open Hypermedia Systems

Hypermedia middleware to support collaborative work with user trails, open hypermedia link services and software agents [24, 20, 38, 50, 49, 55, 40, 64, 47, 70, 75].

Component-based Open Hypermedia Systems (CB-OHS) with the focus on intra-domain and inter-domain interoperability in CB-OHSs [25, 23, 37, 56, 48, 60, 61, 73, 68, 69, 74, 12, 77, 88, 85, 89, 87]; device independent generation of document contents, in particular for mobile users [29, 62, 67].

Trail-based Recommender Systems

Web-based information systems with a focus on middleware infrastructure [82, 15, 5, 87, 10, 84]; recommender systems and tools for supporting knowledge workers [21, 54, 31, 30, 42, 80].

Professional Experience

1988 – 1992

Tutor for lectures in programming (Modula-2 and PL /1) at the Department of Computer Science at the University of Linz.

Summer 1989, 1990

Software developer for database applications for small and medium enterprises with the database system Progress. Company: SOL-Softwarelösungen, Salzburg.

Summer 1991

Software developer for user interface toolkits using the application framework ET++. Company: C.S.E., Salzburg.

May 1992 – December 1994

Research Associate at the Research Institute for Applied Knowledge Processing, Hagenberg, headed by Prof. Dr. Roland R. Wagner.

January 1995 – October 1996

Teaching and Research Associate (“Universitätsassistent”) at the Department of Information Systems at the Johannes Kepler University of Linz, headed by Prof. Dr. Gerti Kappel.

Teaching:

- *Information Systems in CIM* (with the focus on integration and interoperability)
- *Object-Oriented Programming in C++* and
- *Object-Oriented Programming in Java*

November 1996 – June 1998

Post-Doc as Senior Visiting Research Fellow at the Multimedia Research Group at the Department of Electronics and Computer Science at the University of Southampton, UK, supported by two grants of the Austrian National Science Foundation (“Forschungsförderungsfonds”, FWF, Grant No. JO1330-TEC and J1507-INF in the category Erwin Schrödinger Fellowships). The main research interests include the application of advanced database technology such as active mechanisms to open hypermedia systems (OHSs) as well as interoperability in OHSs.

July 1998 – June 1999

Teaching and Research Fellow at the Multimedia Research Group at the Department of Electronics and Computer Science at the University of Southampton, UK. The main research interests include trail based hypermedia systems and interoperability in open hypermedia systems.

Teaching:

- *CM313 Distributed Computing and Networks* and
- *CM316 Multimedia Systems*

July 1999 – June 2000

Teaching and Research Associate (“Universitätsassistent”) at the Department of Information Systems, Linz.

Teaching:

- *Distributed Information Systems*
- *Object-Oriented Programming in Java* and
- *Web-to-Database Connectivity*

Fall 2000

Guest Professorship at the Institute of Computer Science at the Paris-Lodron University of Salzburg.

Teaching: *Object-Oriented Programming in Java & Web-to-Database Connectivity*.

July 2000 – May 2002

Key Researcher at Salzburg Research Forschungsgesellschaft, Salzburg.
Head of Sun Technology & Research Excellence Center (SunTREC). Head
of the Academic Authorized Java Campus (AAJC) Salzburg.

since June 2002

Head of Research of Salzburg Research Forschungsgesellschaft.

since August 2003

Director of Salzburg Research Forschungsgesellschaft. Salzburg Research
is a non-profit research and technology organisation (RTO) owned by the
county of Salzburg. Its mission is to do applied research towards „The
Future Internet“. Application areas include digital media, transport and
logistics, tourism and knowledge-workers. Salzburg Research currently
employs 75 people and has a turnover of about 6 Mio. EURO (2009).

Community Work

Refereeing

Reviewer for several conference series including the International Confer-
ence on Data Base and Expert Systems Applications (DEXA), the Euro-
pean Conference on Object-oriented Programming (ECOOP), Daten-
banksysteme für Büro, Technik und Wissenschaft (BTW), the World Wide
Web Conference (WWW), the ACM Conference on Hypertext, the Jour-
nal of Web Engineering (JWE) and the New Review of Hypermedia and
Multimedia (NRHM). Reviewer for various other journal articles.
Member of many Programme Committees.

Organisation of Workshops, Conferences

- Co-Organisation of the *European Conference on Object-oriented Pro-
gramming (ECOOP)* in July 1995.
- Organisation of the *Open Hypermedia Systems Working Group Meet-
ings and International Workshops* (1998, 2000, 2002).
- Organisation of the *IFIP TC8, WG 8.4 Working Conference on E-
Commerce and E-Business* (2001 and 2004).
- Local Chair of the *3rd International Symposium on Meta-Informatics
– MIS 2004*, (September 2004).
- General Chair of the *16th ACM Conference on Hypertext and Hyper-
media – HT 2005*, (September 2005).

AARIT/ERCIM

Vice-Treasurer of AARIT (Austrian Association of Research in IT), an
association representing Austria in ERCIM (European Consortium for In-
formatics and Mathematics) (since 2002).

IFIP TC8, WG 8.4 Working Group on E-Commerce
Secretary of the IFIP TC8, WG 8.4 Working Group on E-Commerce (with a focus on interdisciplinary research) (2001-2006).

NRHM

Member of the Editorial Board of Wiley's *New Review on Hypermedia and Multimedia (NRHM)* (since 2004).

Industry Liason Chair of SIGWEB

Member of the steering committee of ACM's SIGWEB, the special interest group on Hypertext and Hypermedia, (2002-2005).

Plattform Digitales Salzburg

Member of the board of directors of *Plattform digitales Salzburg*, an association whose goal is to promote convergence in digital media (since 2003).

Forschung Austria

Member of the board of directors of *Forschung Austria*, the association of non-University research in Austria (since 2002); vice-president (since 2006-2008).

Evaluator FP6/FP7

Evaluator for the European Commission for the IST priority in FP6, in particular software architecture and middleware, services for the mobile user and e-content (since 2003).

Memberships

Austrian Computer Society (Österreichische Computergesellschaft, OCG).

Supervision of Theses

The following is a brief listing and description of master-theses and PhD theses (co-)supervised and/or examined as an external since 2002.

Josef Sturm

"Behindertengerechte Web-Anwendungen" (2002). A master thesis that is concerned with improving the usability of web-applications by expanding user models so that the specific requirements of handicapped persons can be taken into account.

Christian Osterrieder

"Komponentenmodelle für Web-Anwendungen" (2003). A master thesis outlining and evaluating various architectural options for web applications.

Manfred Bortenschlager

"P2P Networking. Availing the Power of a Distinct Mindset" (2003). A master thesis on the perspectives on peer-to-peer as a design concept on various architectural layers, in particular for mobile applications.

Omer Ishag Eldai Mohamed

“CB-OHSs: A Building Block for Component-based Open Hypermedia Systems” (2005). This PhD is about componentisation of the lower (system) levels of open hypermedia systems’ infrastructures. An analysis framework is provided; a prototype is built.

Erich Gams

“Following your Colleagues’ Footprints: Assisting Navigation with User Trails” (2005). This PhD is concerned with defining metrics for comparison of (virtual) trails in web-based information systems. Prototype tools and a framework are built.

Claus Atzenbeck

“WildDocs – Investigating Detailed Metaphors to Support Users Knowledge Work Tasks” (2006). A PhD concerned with (office) knowledge work, more specifically, the thesis argues how metaphors of the (= physical) paper-based world can be ported to the digital world.

Nor Aniza Abdullah

“An Architecture for Augmenting the SCORM run-time Environment with a personalised Link Service” (2006). This PhD thesis argues for an architecture (and prototypical implementation) of a system that combines the personalised learning support - as known in adaptive hypermedia systems - with the advantages of the standard based SCORM model by using a proxy-based architectural concept.

Andreas Strasser

“Going Graphic History of the American Graphic Novel from a Cultural History Perspective” (2007). This PhD is concerned with the Graphic Novel, a (media) genre that shares similarities with concepts known from hypermedia (compound contents, new narratives, etc.).

Manfred Bortenschlager

“A Coordination Architecture for Collaboration in Pervasive Environments” (2008). This PhD is about a general architecture for supporting collaborative work using patterns and GIS-based applications.

Tobias Bürger

“A Conceptual Model for Intelligent Content for the Semantic Web” (2009). This PhD is concerned with interoperability of multimedia content using semantically enhanced meta-data.

Publications

Theses and Dissertation

- [1] REICH, S. Plausibilitätskontrollen im Rahmen eines objektorientierten Interface-Editors. Master's thesis, Johannes Kepler University of Linz, Austria, 1992. In German.
- [2] REICH, S. *De Modo Operandi: Towards the Interoperability of Workflow Information*. PhD thesis, University of Vienna, School of Social and Economical Sciences, Austria, 1995.
- [3] REICH, S. *Hypermedia Information Systems*. Habilitationsschrift, Johannes Kepler University of Linz, Faculty of Natural Sciences and Engineering, Austria, 2000.

Books & Proceedings

- [4] EHMAYER, G., AND REICH, S. *Java in der Anwendungsentwicklung — Objektorientierung, Verteilung, Datenbanken*. dpunkt Verlag, Heidelberg, 1998. In German.
- [5] ELLIOT, S., ANDERSEN, K. V., SWATMAN, P., AND REICH, S., Eds. *Developing a Dynamic, Integrative, Multi-Disciplinary Research Agenda in E-Commerce/E-Business* (2001), BICE Press Ourimbah NSW.
- [6] ELLIOT, S., ANDERSEN, K. V., TRAUTH, E., AND REICH, S., Eds. *Multi-Disciplinary Solutions to Industry & Government's E-Business Challenges* (2004), Trauner Verlag.
- [7] LASSNIG, M., AND REICH, S., Eds. *eTourismus* (Dec. 2009), vol. 270, dpunkt.Verlag, Heidelberg.
- [8] FRÖSCHLE, H.-P., AND REICH, S., Eds. *Enterprise Content Management — vom Dokument zur Information* (Dec. 2007), vol. 258, dpunkt.Verlag, Heidelberg.
- [9] HOFMANN, J., AND REICH, S., Eds. *eGovernment* (Feb. 2009), vol. 265, dpunkt.Verlag, Heidelberg.
- [10] KAPPEL, G., PRÖLL, B., REICH, S., AND RETSCHITZEGGER, W., Eds. *Web Engineering — Systematische Entwicklung von Web-Anwendungen*. dpunkt Verlag, Heidelberg, 2003. In German.
- [11] KAPPEL, G., PRÖLL, B., REICH, S., AND RETSCHITZEGGER, W., Eds. *Web Engineering — The Discipline of Systematic Development of Web Applications*. John Wiley & Sons, Ltd., Chichester, 2006.

- [12] MILLARD, D., HAAKE, J., AND REICH, S., Eds. *Proceedings of the International Workshop on Open Hypermedia Systems. Core Concepts & Research Directions. University of Maryland, June 12, 2002* (2002), FernUniversität Hagen. Informatik Berichte 295 - 8/2002.
- [13] REICH, S. *De Modo Operandi: Towards the Interoperability of Workflow Information*, vol. 34. WUV-Universitätsverlag, 1997.
- [14] REICH, S., Ed. *Digital Content Engineering — Content Plattformen in Theorie und Praxis* (2005), Trauner Verlag, Linz.
- [15] REICH, S., AND ANDERSON, K. M., Eds. *Open Hypermedia Systems and Structural Computing. Proceedings of the 6th Workshop on Open Hypermedia Systems (OHS-6) and the 2nd Workshop on Structural Computing (SC-2). San Antonio, TX, USA* (2000), Springer Verlag. Lecture Notes in Computer Science (LNCS) No. 1903.
- [16] REICH, S., GÜNTNER, G., PELLEGRINI, T., AND WAHLER, A., Eds. *Semantic Content Engineering — Proceedings der Semantics 2005* (2006), Trauner Verlag, Linz.
- [17] REICH, S., TZAGARAKIS, M., AND DEBRA, P., Eds. *Hypermedia: Openness, Structural awareness and adaptivity. Proceedings of the 7th International Workshop (OHS-7), the 3rd International Workshop (SC-3), and the 3rd International Workshop on Adaptive Hypermedia (AH-3), Aarhus, Denmark, August 2001* (2001), Springer Verlag. Lecture Notes in Computer Science (LNCS) No. 2266.

Refereed Journal Articles

- [18] BURGER, F., AND REICH, S. Design and implementation of an abstract SGML interface in Smalltalk. *Computer Standards & Interfaces. Special Issue on SGML 18* (1996), 71–78.
- [19] BURGER, F., AND REICH, S. Entwurf und Implementierung eines integrierten Dokumenten- und Workflowmanagement-Systems für elektronisches Publizieren. *Wirtschaftsinformatik 37, 2* (1996), 191–198.
- [20] DEROURE, D. C., HALL, W., REICH, S., PIKRAKIS, A., HILL, G. J., AND STAIRMAND, M. Memoir – an open framework for enhanced navigation of distributed information. *Information Processing & Management. An International Journal 37* (2001), 53–74.
- [21] GAMS, E., AND REICH, S. The TrailTRECer framework: Applying open hypermedia concepts to trails. *Journal of Universal Computer Science 8, 10* (2002), 913 – 923.
- [22] GAMS, E., AND REICH, S. An analysis of the applicability of user trails in web applications. *Journal of Web Engineering, Rinton Press 5, 3* (2006).

- [23] GOOSE, S., HALL, W., AND REICH, S. Microcosm TNG: A framework for distributed open hypermedia. *IEEE Multimedia* 7, 3 (2000), 52–60.
- [24] REICH, S., CARR, L. A., DEROURE, D. C., AND HALL, W. Where have you been from here? Trails in hypertext systems. *ACM Computing Surveys — Symposium on Hypertext (published as electronic supplement)* 31, 4es (Dec. 1999).
- [25] REICH, S., WILL, U. K., NÜRNBERG, P. J., DAVIS, H. C., GRØNBÆK, K., ANDERSON, K. M., MILLARD, D. E., AND HAAKE, J. M. Addressing interoperability in open hypermedia: The design of the open hypermedia protocol. *New Review of Hypermedia and Multimedia* 5 (1999), 207–248.
- [26] REICH, S., AND BEHRENDT, W. Technologien und Trends für Wissensarbeit und Wissensmanagement. *HMD - Praxis der Wirtschaftsinformatik* 258 (2007), 6–15.
- [27] REICH, S., AND BEHRENDT, W. Die Infoflut kanalisieren — Enterprise Content Management. *Wirtschaftsinformatik & Management* 1 (2009), 72–77.
- [28] SIKORA, H., GRÜNbacher, P., HUMMEL, G., AND REICH, S. Object-oriented implementation aspects of an abstract relational database interface. *Structured Programming* 14, 2 (1993), 86–91.

Refereed Conference Papers

- [29] AUSTALLER, G., HARTL, A., KAPPEL, G., KAPSAMMER, E., LECHLEITNER, C., MÜHLHÄUSER, M., REICH, S., AND RUDISCH, R. Gulliver beans: A tool for fine tuning data delivery in e-commerce applications. In *Informationssysteme für E-Commerce, EMISA-2000* (Linz, Austria, 2000), Universität Linz, Abteilung Systemtechnik und Automation, Universitätsverlag Rudolf Trauner, pp. 29 – 40.
- [30] BEN-PORAT, Z., BEHRENDT, W., AND REICH, S. Organizing multimedia intertextual knowledge: New tasks, challenges and technologies. In *ALLC/ACH 2002. New Directions in Humanities Computing. The 14th Joint Intl. Conference, Tübingen 2002* (2002), University of Tübingen, pp. 8–11.
- [31] BERKA, T., BEHRENDT, W., GAMS, E., AND REICH, S. Recommending Internet-domains using trails and neural networks. In *Proceedings of Adaptive Hypermedia and Adaptive Web-based Systems, Malaga, Spain* (Berlin/Heidelberg/New York, 2002), LNCS 2374, Springer, pp. 368 – 371.
- [32] BURGER, F., QUIRCHMAYR, G., REICH, S., AND TJOA, A. M. Managing structured documents in distributed publishing environments. In *Proceedings of DEXA 94, Conference on Database and Expert Systems, Athens,*

- Greece* (Berlin/Heidelberg/New York, 1994), vol. 856 of *LNCS*, Springer, pp. 83–92.
- [33] BURGER, F., AND REICH, S. Usability of groupware products for supporting publishing workflows. In *Workflow Management. Challenges, Paradigms and Products. Proceedings of Connectivity 1994. Ninth Austrian-Hungarian Informatics Conference* (Wien/München, 1994), R. Oldenbourg, pp. 51–64.
- [34] BURGER, F., AND REICH, S. HyTime architectural forms for workflow processing. In *2nd International Conference on the Application of HyTime. Vancouver, August 1995* (Berlin/Heidelberg/New York, 1995), Published electronically as `ftp://ftp.techno.com/pub/HyTime/conferences/August_16-17,_1995,_Vancouver_B.C./papers/workflow.ps`, pp. 160–170.
- [35] BURGER, F., AND REICH, S. Managing WWW-documents in distributed publishing environments. In *Enter 95: Information and Communication Technologies in Tourism* (Berlin/Heidelberg/New York, 1995), Springer, pp. 160–170.
- [36] BURGER, F., REICH, S., AND WAGNER, R. R. Information technology as the glue for a concurrent publishing environment. In *Advances in Databases and Expert Systems. Proceedings of the 7th International Conference on Systems Research, Informatics and Cybernetics, held in Baden-Baden, Germany* (1994), pp. 187–196.
- [37] DAVIS, H. C., MILLARD, D. E., REICH, S., BOUVIN, N. O., GRØNBÆK, K., NÜRNBERG, P. J., SLOTH, L., WIL, U. K., AND ANDERSON, K. M. Interoperability between hypermedia systems: The standardisation work of the OHSWG (technical briefing). In *Proceedings of the '99 ACM Conference on Hypertext, February 21-25, 1999, Darmstadt, Germany* (1999), pp. 201–202.
- [38] DEROURE, D. C., HALL, W., REICH, S., PIKRAKIS, A., HILL, G. J., AND STAIRMAND, M. An open framework for collaborative distributed information management. *Seventh International World Wide Web Conference (WWW7), 14 - 18 April 1998, Brisbane, Australia 30* (1998), 624–625. Published in *Computer Networks and ISDN Systems*.
- [39] EHMAYER, G., KAPPEL, G., AND REICH, S. Connecting databases to the web: A taxonomy of gateways. In *Proceedings of the 8th International Conference on Database and Expert Systems Applications (DEXA 97), Toulouse, France, Springer* (1997), vol. 1308 of *LNCS*, pp. 1–15.
- [40] GAMS, E., BERKA, T., AND REICH, S. The TrailTRECcer framework — a platform for trail-enabled recommender applications. In *Proceedings of DEXA 2002, Conference on Database and Expert Systems, Aix-en-Provence, France* (Berlin/Heidelberg/New York, 2002), LNCS 2453, Springer, pp. 638–647.

- [41] GAMS, E., AND REICH, S. Following your colleagues' footprints: Navigation support with trails in shared directories. In *Proceedings of the '04 ACM Conference on Hypertext, August, Santa Cruz, CA* (2004), pp. 89–90.
- [42] GOYAL, S., BEHRENDT, W., AND REICH, S. EMMOs — enhanced multimedia meta objects for re-purposing of knowledge assets. In *MIS '02 - Meta Informatics Symposium 2002, Esbjerg, August 2002, LNCS 2641* (2002), pp. 155–160.
- [43] GÜNTNER, G., AND REICH, S. Smart content factory — approaching the vision. In *From Author to Reader — Challenges for the Digital Content Chain. 9th ICCO International Conference on Electronic Publishing, Leuven (Belgium), June 2005* (2005), pp. 43–50.
- [44] KAPPEL, G., MICHLMAYR, E., PRÖLL, B., REICH, S., AND RETSCHITZEGGER, W. Web engineering — old wine in new bottles? In *International Conference on Web Engineering (ICWE), Munich 2004, LNCS 3240* (2004), pp. 6–12.
- [45] KAPPEL, G., RAUSCH-SCHOTT, S., REICH, S., AND RETSCHITZEGGER, W. The benefits of open hypermedia systems using advanced database concepts. In *Informatik 96, "Beherrschung von Informationssystemen". Jahrestagung der GI und der OCG, Klagenfurt* (1996), H. C. MAYR, Ed., Oldenbourg, pp. 179–195.
- [46] KAPPEL, G., RAUSCH-SCHOTT, S., REICH, S., AND RETSCHITZEGGER, W. Hypermedia document and workflow management based on active object-oriented databases. In *HICSS 97 — 30th Hawaii International Conference on System Sciences. Jan. 7 — 10* (1997), IEEE Computer Society Press.
- [47] KAROUSOS, N., PANDIS, I., TZAGARAKIS, M., AND REICH, S. Offering open hypermedia services to the WWW: a step-by-step approach for developers. In *Proceedings WWW9, Budapest 2003* (2003), pp. 482–489.
- [48] MILLARD, D. E., MOREAU, L., DAVIS, H. C., AND REICH, S. FOHM: A fundamental open hypertext model for investigating interoperability between hypertext domains. In *Proceedings of the '99 ACM Conference on Hypertext, February 21-25, 1999, Darmstadt, Germany* (2000), pp. 93–102.
- [49] MOREAU, L., GIBBINS, N., DEROURE, D., EL-BELTAGY, S., HALL, W., HUGHES, G., JOYCE, D., KIM, S., MICHAELIDES, D., MILLARD, D., REICH, S., TANSLEY, R., AND WEAL, M. SoFAR with DIM agents. An agent framework for distributed information management. In *PAAM 2000. The Fifth International Conference and Exhibition on The Practical Application of Intelligent Agents and Multi-Agents. April 10 - 12, 2000, Manchester, UK* (2000), pp. 369–388.

- [50] PIKRAKIS, A., BITSIKAS, T., SFAKIANAKIS, S., HATZOPOULOS, M., DEROURE, D. C., HALL, W., REICH, S., HILL, G. J., AND STAIRMAND, M. Memoir — software agents for finding similar users by trails. In *PAAM 1998. The Third International Conference and Exhibition on The Practical Application of Intelligent Agents and Multi-Agents. March 23-25, London, UK* (1998), pp. 453–466.
- [51] REHRL, K., BEHRENDT, W., BORTENSCHLAGER, M., REICH, S., RIESER, H., AND WESTENTHALER, R. Asomnia: A service-oriented middleware for ambient information access. In *Proceedings of DEXA 2003, Conference on Database and Expert Systems, Prague, Czech Republic* (Berlin/Heidelberg/New York, 2003), Springer.
- [52] REHRL, K., BORTENSCHLAGER, M., REICH, S., RIESER, H., AND WESTENTHALER, R. Towards a service-oriented architecture for mobile information systems. In *IFIP TC8 Working Conference on Mobile Information Systems (MOBIS), Oslo, September 2004* (2004), pp. 37–50.
- [53] REICH, S. Digital content engineering — Bridging the gap between content creation and content consumption. In *Metainformatics. International Symposium, MIS 2004, Salzburg, September 2004, LNCS 3511* (2004), pp. 206–211.
- [54] REICH, S., BEHRENDT, W., EICHINGER, C., AND SCHALLER, M. Document models for navigating digital libraries. In *2000 Kyoto International Conference on Digital Libraries: Research and Practice. November 13 - 16, Kyoto, Japan* (2000), pp. 392–399.
- [55] REICH, S., AND GAMS, E. Trailist: Focusing on document activity for assisting navigation. In *Proceedings of the '01 ACM Conference on Hypertext, August 14 - 17, Aarhus, DK* (2001), pp. 29–30.
- [56] REICH, S., GRIFFITHS, J. P., MILLARD, D. E., AND DAVIS, H. C. Solent — a platform for distributed open hypermedia applications. In *Database and Expert Systems Applications. 10th Intl. Conference, DEXA 99, Florence, Italy* (Berlin/Heidelberg/New York, 1999), T. Bench-Capon, G. Soda, and A. M. Tjoa, Eds., vol. 1677 of *LNCS*, Springer, pp. 802–811.
- [57] REICH, S., AND GÜNTNER, G. Digital content engineering. An introduction. In *Digital Content Engineering — Content Plattformen in Theorie und Praxis* (2005), pp. 3–10.
- [58] SIKORA, H., HUMMEL, G., AND REICH, S. A toolset for experimental prototyping of database-based applications. In *Proceedings of CASE 4 — Software Tools and Methods* (Rijeka, 1992), Hravatska Gospodarska Komora, pp. 95–110.
- [59] STEINMANN, R., AND REICH, S. Innovation dynamics of Salzburg. In *2nd Seminar on Regional Innovation Policies, 11-12 Oct. 2007, Salzburg* (2007), University of Salzburg.

- [60] TZAGARAKIS, M., REICH, S., KAROUSOS, N., AND CHRISTODOULAKIS, D. Naming as a fundamental concept of open hypermedia systems. In *Proceedings of the '00 ACM Conference on Hypertext, May 30 - June 3, San Antonio, TX* (2000), pp. 103–112.
- [61] WIIL, U. K., NÜRNBERG, P. J., HICKS, D., AND REICH, S. A development environment for building component-based open hypermedia systems. In *Proceedings of the '00 ACM Conference on Hypertext, May 30 - June 3, San Antonio, TX* (2000), pp. 266–267.

Refereed Workshop Papers

- [62] AUSTALLER, G., HARTL, A., KAPPEL, G., LECHLEITNER, C., MÜHLHÄUSER, M., REICH, S., AND RUDISCH, R. GulliverBeans: Generating device optimized and individualized content for WAP applications. In *World Wide Web Conference, Workshop: W2 - Information Design for Mobile Web Services* (2000).
- [63] BORTENSCHLAGER, M., REICH, S., AND KOTSIS, G. A generic coordination architecture as an enabler for mobile collaborative applications. In *WETICE 06 — 15th International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises, Manchester, 26th-28th June 2006* (2006).
- [64] DEROUER, D. C., HALL, W., REICH, S., PIKRAKIS, A., HILL, G. J., AND STAIRMAND, M. An open architecture for supporting collaboration on the web. In *WETICE 98 — IEEE Seventh International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises, June 17-19, Stanford University, California* (1998), pp. 90–95.
- [65] GAMS, E., AND REICH, S. The TrailTRECER framework — applying open hypermedia concepts to trails. In *I-Know '02 Workshop "Hypermedia eine Bestandsaufnahme"* (2002).
- [66] GRIFFITHS, J. P., REICH, S., AND DAVIS, H. C. The ContentSpec Protocol: Providing document management services for OHP. In *Proceedings of the 5th Workshop on Open Hypermedia Systems, ACM Hypertext '99 Conference, Darmstadt, Germany, February 21-25. Available as Report No. CS-99-01 from the Dept. of Computer Science, 6700 Aalborg University Esbjerg, Denmark* (1999), U. K. Wiil, Ed., pp. 29–33.
- [67] HARTL, A., AUSTALLER, G., KAPPEL, G., LECHLEITNER, C., MÜHLHÄUSER, M., REICH, S., AND RUDISCH, R. Gulliver — a development environment for WAP based applications. In *Poster Proceedings of WWW9, the Ninth International World Wide Web Conference* (2000), pp. 26–27.

- [68] MILLARD, D. E., REICH, S., AND DAVIS, H. C. Reworking OHP: the road to OHP-Nav. In *Proceedings of the 4th Workshop on Open Hypermedia Systems, ACM Hypertext '98 Conference, Pittsburgh, PA, June 20-24. Available as Report No. CS-98-01 from the Dept. of Computer Science, 6700 Aalborg University Esbjerg, Denmark* (June 1998), U. K. Wiil, Ed., pp. 48–53.
- [69] MILLARD, D. E., REICH, S., AND DAVIS, H. C. Dynamic service discovery and invocation in OHP. In *Proceedings of the 5th Workshop on Open Hypermedia Systems, ACM Hypertext '99 Conference, Darmstadt, Germany, February 21-25. Available as Report No. CS-99-01 from the Dept. of Computer Science, 6700 Aalborg University Esbjerg, Denmark* (1999), U. K. Wiil, Ed., pp. 38–42.
- [70] MOREAU, L., ZAINI, N., ZHOU, J., JENNINGS, N. R., WEI, Y. Z., HALL, W., DEROURE, D., GILCHRIST, I., O'DELL, M., REICH, S., BERKA, T., AND NAPOLI, C. D. A market-based recommender system. In *Proc. 4th Int. Workshop on Agent-Oriented Information Systems, Bologna, Italy* (2002), pp. 50–67.
- [71] REICH, S. Interoperability of workflow information. In *Proceedings of the Doctoral Consortium at CAiSE 95, Jyväskylä, Finland* (1995), pp. 42–43.
- [72] REICH, S. The notion of active object-oriented databases for open hypermedia systems. In *Proceedings of the 2nd Workshop on Open Hypermedia Systems, ACM Hypertext '96, Washington, D.C., March 16-20. Available as Report No. ICS-TR-96-10 from the Dept. of Information and Computer Science, University of California, Irvine* (1996), U. K. Wiil and S. Demeyer, Eds., pp. 55–60.
- [73] REICH, S. How OHPs LocSpecs could benefit from ISO/IEC 10744. In *Proceedings of the 3rd Workshop on Open Hypermedia Systems, ACM Hypertext '97, Southampton, U.K., April 6-11. Available as Report No. SR-97-01 from the Danish National Centre for IT Research, 8000 Aarhus C, Denmark* (1997), U. K. Wiil, Ed., pp. 98–105.
- [74] REICH, S., MILLARD, D. E., AND DAVIS, H. C. Naming in OHP. In *Proceedings of the 5th Workshop on Open Hypermedia Systems, ACM Hypertext '99 Conference, Darmstadt, Germany, February 21-25. Available as Report No. CS-99-01 from the Dept. of Computer Science, 6700 Aalborg University Esbjerg, Denmark* (1999), U. K. Wiil, Ed., pp. 43–47.

Other Publications

- [75] ANDRIC, M., GRIFFITHS, J. P., REICH, S., DAVIS, H. C., AND HALL, W. Dynamically generating branching guided tours using agents and trails. In *ETRAN 98 — XLII Conference for Electronics, Telecommunications,*

Computers, Automation, and Nuclear Engineering. June 2-5, Vrnjacka Banja, Yugoslavia (1998).

- [76] BURGER, F., QUIRCHMAYR, G., REICH, S., AND TJOA, A. M. Using HyTime for modeling publishing workflows. *ACM SIGOIS Bulletin Special Issue: Business Process Management Systems: Concepts, Methods and Technology* 16, 1 (1995), 39–45.
- [77] DAVIS, H. C., MILLARD, D. E., AND REICH, S. OHP — communicating between hypermedia aware applications. In *Towards a New Generation of HTTP. A workshop on global hypermedia infrastructure held in conjunction with the Seventh International World Wide Web Conference (WWW7), 14 - 18 April 1998, Brisbane, Australia (1998).*
- [78] DAVIS, H. C., REICH, S., AND MILLARD, D. A proposal for a common navigational hypertext protocol. Tech. rep., Dept. of Electronics and Computer Science, 1997. Presented at 3.5 Open Hypermedia System Working Group Meeting. Aarhus University, Denmark. September 8-11.
- [79] EHMAYER, G., AND REICH, S. Kaffee für Kaffeemaschinen: Java, JavaScript und Konsorten. *On-line Mitteilungen*, 57 (1997), 6–12. In German.
- [80] GAMS, E., AND REICH, S. Wider den Datenkater. *Noeo — Wissenschaftsmagazin der Salzburger Bildungs- und Forschungseinrichtungen* 2, 1 (2003), 31–34.
- [81] GAMS, E., AND REICH, S. An analysis of the applicability of user trails in web applications. In *Intl. Workshop on Web Engineering, held in conjunction with ACM Hypertext 2004, Santa Cruz, CA (2004).*
- [82] KAPPEL, G., PRÖLL, B., RETSCHITZEGGER, W., AND REICH, S. Web Engineering — Eine Neuauflage der Software Krise? In *A Min Tjoa Work (2002)*, pp. 67–87.
- [83] KAPPEL, G., AND REICH, S. Tankstellen am Infohighway. Bibliotheken im Jahr 2000 aus informationstechnischer Sicht. *Mitteilungen der Vereinigung Österreichischer Bibliothekarinnen und Bibliothekare*, 3/4 (1997), 62–72. In German.
- [84] REHRL, K., REICH, S., AND RIESER, H. Der digitale Dienstleister. *Noeo — Wissenschaftsmagazin der Salzburger Bildungs- und Forschungseinrichtungen* 2, 2 (2003), 7–10.
- [85] REICH, S. Introduction to OHS6. In *Open Hypermedia Systems and Structural Computing. Proceedings of the 6th Workshop on Open Hypermedia Systems (OHS-6) and the 2nd Workshop on Structural Computing (SC-2), LNCS 1903 (2000)*, pp. 1–2.
- [86] REICH, S. A summary of OHS7 – the 7th workshop on open hypermedia systems. *ACM SIGWeb Newsletter* 9, 2-3 (2000), 22–23.

- [87] REICH, S. Introduction to OHS7. In *Hypermedia: Openness, Structural awareness and adaptivity. Proceedings of the 7th International Workshop (OHS-7), LNCS 2266* (2001), pp. 4–7.
- [88] REICH, S., AND DAVIS, H. C. The need for an open hypertext protocol. *ACM SIGWeb Newsletter* 8, 1 (1999), 21–23.
- [89] REICH, S., SCHALLER, M., AND WESTENTHALER, R. Developing advanced multimedia presentations with Java. Tech. rep., Sun Microsystems, 2001. Presentation T541 at JavaOne, San Francisco, June 2001.
- [90] STURM, J. W., AND REICH, S. Barrierefreies internet. *Noeo — Wissenschaftsmagazin der Salzburger Bildungs- und Forschungsseinrichtungen* 2, 3 (2003), 6–9.

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