

Curriculum Vitae

Johann Gamper

Personal Data

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Research Statement

Philosophy. It is my deep belief that research shall be driven by data and problems that arise from real-world applications. This complements and inspires theoretical research – which must be part of any serious research activities – with important aspects, such as usability, applicability, and the evaluation on real-world data. I experienced that the development of prototypical systems is extremely valuable, as in many cases critical flaws of a paper design are only revealed under the stresses of an implementation. This form of research calls for additional work: the interpretation of often huge amounts of real-world data and the implementation and evaluation of actual systems. Although these tasks are very time-consuming and demanding, such a data-centric approach frequently pushes research results to another level of quality.

Research Focus. The main objectives for my research activities during the last few years were (1) to establish my own research area in the field of *core database technologies*, including the establishment of a small group of researchers, (2) to pursue research at the highest level of quality by publishing the scientific results in the most prestigious international journals and conferences, and (3) to deploy my research results and create an impact to the region by transferring know how and technology.

Motivated by the ubiquity of temporal data, my experiences with time-varying information in medical diagnosis systems, and the scarce support for such data in current DBMS, I concentrated my research activities on *temporal database systems* and *approximation techniques* for database systems. In close collaboration with key members of the temporal database community I progressed the frontiers of standard relational database technology towards the support for temporal data. In two PhD theses that I am (co-)supervising we are working on approximation techniques for temporal aggregation and for tree-structured data in relational databases, respectively. The obtained results have been published in some of the most prestigious conferences and journals of the database community (including VLDB [32, 35] and EDBT [34]).

All of these research activities are embedded in a large e-government initiative, called EBZ, in collaboration with the Municipality of Bozen-Bolzano. I am the principal investigator of this initiative that has an overall funding of 814,000 Euro. This funding allowed me to create a working environment which now actively involves 5 PhD students/researchers of the DIS group and guarantees a base funding for foundational research in core database technologies for the next 10 years.

Research Perspective. The primary line of research in the next future will be to continue my current research activities in the area of *data-centric applications for temporal databases*. I will investigate the foundational principles, study the conceptualization of problems, and pursue the implementation and empirical evaluation of prototypical systems. The scientific results will be published in high-quality international journals and conference proceedings. These research activities will continue to be embedded in and profit from two long-term collaborations with external partners, which provide real-world data and requirements and guarantee a base funding to support a research group. In addition to the EBZ initiative, a new 4-year project (MEDAN) in collaboration with the Hospital Meran will start in January 2008. It has an external

funding of 225,000 Euro and aims to advance research in the field of medical data warehousing and data mining. A specific focus will be on temporal data mining from large medical data warehouses. Within both projects I want to establish a success story for the technology transfer from the university to the territory.

Teaching Statement

Philosophy. Besides research, teaching and supervising students is an integral part of academic life. While training students to be good programmers is an important aspect of every computer science curriculum, I believe that a computer science degree needs to offer more: it must promote the understanding of the principles and foundations of computing. This way the graduates should be able to understand not only the immediate features of cutting-edge technology, rather, they should be able to understand the long-term impact and ramifications of the various computational techniques.

I believe that teaching style and presentation have a great influence upon student motivation and ability to absorb the content of a course. Students become more engaged when the course material is presented interactively and is accompanied with lots of motivating and explaining examples. I believe that students learn the most when they apply technical solutions and theoretical results in examples and real problems. In my course design, the preparation of good exercises is therefore important.

At the graduate level, it is vital to impart the ability to critically examine research problems relevant to the course. A project-based approach is an attractive method to reach this objective. I am involved in the development and implementation of a project-based database stream in the MSc in Computer Science at the Free University of Bozen-Bolzano. In each semester the students do a mini-project, which ideally operates on the same data set and forces students to focus on different aspects of the data — a valuable exercise to train students to perform in-depth analyses and investigations.

Teaching Experience. I got my first teaching experience as a teaching assistant in artificial intelligence courses at the RWTH Aachen and the University of Hannover. At the Free University of Bozen-Bolzano I gave introductory courses in computing for students of the Economics Faculty. As an instructor at the Faculty of Computer Science at the Free University of Bozen-Bolzano I taught for several years the introductory course in programming. Recently, I concentrated my teaching activities on advanced database courses at the undergraduate and graduate level (Database Management Systems and Temporal and Spatial Databases). This focus in teaching is going hand in hand with and complements my current research activities.

The feedback from the students and positive teaching evaluations confirm that my teaching approach is appreciated by the students. In the teaching evaluations of the last years my performance was always above average.

Detailed CV

Education

- 1968–1976 Primary school in Klausen/Latzfons, Italy.
- 1976–1981 High school in Brixen, Italy.
- 1981–1987 BSc study in Data System Engineering, Technical University of Vienna, Austria.
- 1983–1989 BSc and MSc study in Computer Science with a specialization in Medical Informatics, Technical University of Vienna, Austria. Title of the MSc thesis: *HEPAXPERT-I: An Expert System for Automatic Interpretation of Hepatitis A and B Serology Findings*. Supervisor: Prof. Klaus-Peter Adlassnig.
- 01/93–10/96 PhD study in Computer Science, RWTH Aachen, Germany. Title of the PhD thesis: *A Temporal Reasoning and Abstraction Framework for Model-Based Diagnosis Systems*. First supervisor: Prof. Wolfgang Nejdl, University of Hannover and RWTH Aachen. Second supervisor: Prof. Matthias Jarke, RWTH Aachen.

Degrees

- 24/06/1987 BSc in Data System Engineering, Technical University of Vienna, Austria.
- 08/11/1989 MSc in Computer Science (“Diplom-Ingenieur in Informatik”), Technical University of Vienna, Austria.
- 04/11/1996 PhD in Computer Science (“Dr.rer.nat.”) with “*summa cum laude*”, RWTH Aachen, Germany.
- 23/09/2003 Winner of the competition “Procedura di valutazione comparativa per un posto di ricercatore universitario di ruolo per il settore scientifico-disciplinare INF/01 – Informatica” for a position as assistant professor (“ricercatore”) at the Free University of Bozen-Bolzano, Faculty of Computer Science, Italy.
- 18/11/2007 Winner of the competition “Procedura di valutazione comparativa per un posto di professore universitario di ruolo di seconda fascia (associato) per il settore scientifico-disciplinare INF/01 – Informatica” for a position as associate professor at the Free University of Bozen-Bolzano, Faculty of Computer Science, Italy.

Languages

- German (mother tongue)
- Italian and English (fluently written and spoken)

Employments and Research Activities

- 10/89–04/90 Scientific collaborator at the University of Vienna, Austria, Department of Medical Computer Sciences, Medical Expert Systems Group. Head: Prof. Klaus-Peter Adlassnig.
- 05/90–05/91 Basic military service in Italy.
- 06/91–10/93 University assistant at the University of Vienna, Austria, Department of Medical Computer Sciences, Medical Expert Systems Group. Head: Prof. Klaus-Peter Adlassnig.
- 11/93–01/95 ERASMUS scholarship at RWTH Aachen, Germany, Institute for Knowledge-Based Systems. Head: Prof. Wolfgang Nejdl.
- 02/95–10/96 University assistant at the University of Hannover, Germany, Institute for Knowledge-Based Systems. Head: Prof. Wolfgang Nejdl.
- 11/96–10/00 Senior researcher at the European Academy Bolzano-Bozen, Italy. Coordinator of the Knowledge Engineering Group in the Scientific Area “Language and Law”.
- 11/00–09/03 Coordinator of the establishment of the new Faculty of Computer Science at the Free University of Bozen-Bolzano and head of the faculty administration.
- 10/03–02/08 Assistant professor (“ricercatore”) in the scientific sector “INF/01 – Informatica” at the Free University of Bozen-Bolzano, Faculty of Computer Science, Center for Database and Information Systems.
- since 03/08 Associate professor in the scientific sector “INF/01 – Informatica” at the Free University of Bozen-Bolzano, Faculty of Computer Science, Center for Database and Information Systems.

Awards

- *Outstanding Paper Award* at the World Conference on Educational Multimedia, Hypermedia & Telecommunications for the following paper: *Describing Verb Valency in an Electronic Learner’s Dictionary: Linguistic and Technical Implications*, Andrea Abel, Johann Gamper, Judith Knapp, and Vanessa Weber.
- The following paper has been selected as *one of the best papers* in the session adaptive hypermedia in education at the 6th World Multiconference on Systemics, Cybernetics and Informatics, 2002: *Tutoring in a language learning system*, Johann Gamper and Judith Knapp.
- “*Anerkennungspreis 2002 für Forschungs- und Studienprojekte der Eduard-Wallnöfer-Stiftung*” for the ELDIT system, Innsbruck, Austria.

- “*Borchers-Plakette*” for excellent research for my work on the PhD thesis, awarded by “Freunde und Förderer der RWTH Aachen”, Germany, 1997.

Main Research Interests

- Data-centric applications of database systems with a particular focus on temporal and spatial data
- Approximate query processing techniques for hierarchical data structures

Research Projects, Funds, and Software Products

Summary of Research Projects and Funds

Project name	Period	Funding	Role
AQUIST	04/2011–03/2013	117,000	Principal investigator
FITTS	01/2011–12/2013	72,000	FUB Principal investigator
OPTIMUN	07/2010–06/2011	25,000	Principal investigator
MEDAN	07/2009–06/2012	225,000	Principal investigator
TTDBT	01/2006–12/2007	9,770	Principal investigator
EBZ 2015	10/2005–12/2010	220,000	Principal investigator
EBZ – DIGITAL CITY	03/2002–06/2005	120,000	Principal investigator
EMAYOR	01/2004–02/2006	110,000	FUB Principal investigator ¹
PEOPLE	01/2003–12/2004	130,000	FUB Principal investigator
ELDIT	01/2000–10/2004		FUB Principal investigator
MIRIS	06/2001–06/2003	45,000	FUB Principal investigator
CATEX	11/1997–10/2000		FUB Principal investigator
HEPAXPERT	1991–1993		Scientific collaborator
CADIAG	1991–1993		Scientific collaborator
KBWEAN	1991–1993		Scientific collaborator
2 MSc bursaries	2005–2006	14,000	Coordinator
Total		898,770	

¹ Stands for coordinator/scientist-in-charge for the Free University of Bozen-Bolzano.

Funds

Project AQUIST

Period: 04/2011–03/2013

Funding: 117,000 Euro, Province of Bozen-Bolzano

Role: Principal investigator

Objectives: Study of advanced current query processing technologies in spatial network databases, such as the computation of isochrones and sequenced spatio-temporal aggregation.

Project FITTS

Period: 01/2011–12/2013
Funding: 72,000 Euro (total funding: 400,000 Euro), Province of Bozen-Bolzano
Role: FUB Principal investigator
Objectives: Development of algorithmic solutions to compute the best path in spatial-temporal network databases, taking into consideration also query preferences. The application domain is the tourism sector.

Project OPTIMUN

Period: 07/2010–06/2011
Funding: 25,000 Euro, Free University of Bozen-Bolzano
Role: Principal investigator
Objectives: Optimize the disk-based solution for the computation of isochrones in multi-modal network databases to achieve real-time (or almost real-time) answers even for large networks and isochrones.

Project MEDAN

Period: 07/2009–06/2012
Funding: 300,000 Euro, Health Care District South Tyrol
Role: Principal investigator
Objectives: Create competences in data warehousing and analysis technologies in the health care sector and conduct research on selected topics, including multi-dimensional modeling of time-varying data, complex event set pattern matching, and data visualization.

Project TTDBT

Period: 01/2006–12/2007
Funding: 9,770 Euro, Free University of Bozen-Bolzano
Role: Principal investigator
Objectives: Extend and generalize existing temporal data models and query languages, focusing on the following aspects: evaluation of temporal OLAP queries with different temporal semantics and representation of calendar dates.

Project EBZ 2015

Period: 10/2005–12/2010
Funding: 220,000 Euro, Municipality of Bozen-Bolzano
Role: Principal investigator
Objectives: Continue the EBZ – DIGITAL CITY initiative and strengthen the activities towards an excellent administration based on IT. This initiative is implemented by concrete research projects in relevant areas, e.g., temporal-spatial databases for the management of the times of the city.

Project EBZ – DIGITAL CITY

Period: 03/2002–06/2005
Funding: 120,000 Euro, Municipality of Bozen-Bolzano
Role: Principal investigator
Objectives: Promote and explore the use of IT in the municipality administration in order to improve the quality of services and the efficiency of the administration.

Project EMAYOR

Period: 01/2004–02/2006
Funding: 110,000 Euro (total budget: 2 Mio. Euro), 6FP IST STREP project
Role: FUB Principal investigator
Objectives: Development of an open, secure, and affordable e-government platform for small and medium European public organizations.

Project PEOPLE

Period: 01/2003–12/2004
Funding: 130,000 Euro (total budget: 7 Mio. Euro), Department of Innovation and Technology of the Italian Government
Role: FUB Principal investigator
Objectives: Development and implementation of a middle-ware layer for the most important services offered by an Italian municipality.

Project MIRIS

Period: 06/2001–06/2003
Funding: 45,000 Euro, European Academy of Bozen-Bolzano
Role: FUB Principal investigator
Objectives: Development of a comprehensive legal information system about minority rights in Europe; uses an ontology to provide content-based access.

2 Bursaries for MSc students in Computer Science

Period: 2005
Funding: 14,000 Euro, Municipality of Bozen-Bolzano
Role: Coordinator

Software Products

Several of my past research projects had a strong focus on the development of running software systems that went beyond pure research prototypes:

- **HEPAXPERT:** An expert systems for the interpretation of hepatitis A, B, and C serology; emerged to a professional system which is distributed by the “Software Unlimited Daternverarbeitungs Ges.m.b.H.” company (<http://www.ping.at/hepax>) in Vienna, Austria and is now also accessible on-line at <http://medexpert.imc.akh-wien.ac.at/hepax>.

Role: I programmed the first version for hepatitis A and B as part of my MSc thesis and worked later as a scientific collaborator in several extensions of the program.

- ELDIT: Language learning system accessible at <http://www.eurac.edu/eldit>.
Role: FUB Principal investigator.
- MIRIS: Legal information system accessible at <http://www.eurac.edu/miris>.
Role: FUB Principal investigator
- CATEX: Has been extended to a juridical terminological information system, called BISTRO, and is accessible at <http://www.eurac.edu/bistro>.
Role: FUB Principal investigator

Publications¹

Work in Progress

- [i] On the efficient partitioning of multi-dimensional data. Andrej Taliun, Michael H. Böhlen, Johann Gamper, and Arturas Mazeika. 38 pages. Will be submitted to TODS.
- [ii] Scalable computation of isochrones in multimodal spatial networks. Johann Gamper, Michael Böhlen, Willi Cometti, and Markus Innerebner. 12 pages.
- [iii] The RDS tree. Daniel Taliun, Johann Gamper, and Christian Fuchsberger. 12 pages.

Book Chapters, Edited Books, and Conference Proceedings

- [1] J. Gamper, M. Böhlen, and C. S. Jensen. Temporal aggregation. In Ling Liu and M. Tamer Özsu, editors, *Encyclopedia of Database Systems*, pages 2924–2929. Springer-Verlag, 2009.
- [2] M. Böhlen, J. Gamper, C. S. Jensen, and R. T. Snodgrass. SQL-based temporal query languages. In Ling Liu and M. Tamer Özsu, editors, *Encyclopedia of Database Systems*, pages 2762–2768. Springer-Verlag, 2009.
- [3] A. Mitrakas, P. Hengeveld, D. Polemi, and J. Gamper. Towards secure e-government. In *Secure E-Government Web Services*, pages 1–28. IDEA Group Publishing, Hershey, USA, 2007.
- [4] A. Mitrakas, P. Hengeveld, D. Polemi, and J. Gamper, editors. *Secure E-Government Web Services*. IDEA Group Publishing, Hershey, USA, 2007.
- [5] M. H. Böhlen, J. Gamper, W. Polasek, and M. Wimmer, editors. *Proceedings of the International Conference "E-Government: Towards Electronic Democracy" (TCGOV-2005)*, LNAI 3416, Bozen, Italy, March 2005. Springer-Verlag.
- [6] M. H. Böhlen, J. Gamper, W. Polasek, and M. Wimmer, editors. *Poster Proceedings of the TED Conference on e-Government – Electronic Democracy: The Challenge Ahead*, volume 13 of *Schriftenreihe Informatik*, Bozen, Italy, March 2005. Universitätsverlag Rudolf Trauner.

Journal Publications

- [7] Juozas Gordevičius, Johann Gamper, and Michael Böhlen. Parsimonious temporal aggregation. Accepted for publication in *The VLDB Journal*, 2011. [GRIN A]

¹Abbreviations used: CIR = CiteSeer impact rating (2003), AR = acceptance rate

- [8] I. Timko, M.H. Böhlen, and J. Gamper. Sequenced spatiotemporal aggregation for coarse query granularities. Accepted for publication in *The VLDB Journal*, 2011. [GRIN A]
- [9] Nikolaus Augsten, Michael Böhlen, Curtis Dyreson, and Johann Gamper. Windowed pq-grams for approximate joins of data-centric XML. Accepted for publication in *The VLDB Journal*, 2011. [GRIN A]
- [10] M. Akinde, M. H. Böhlen, D. Chatziantoniou, and J. Gamper. θ -Constrained multi-dimensional aggregation. *Information Systems*, 36(2): 341–358, 2010. [GRIN A]
- [11] N. Augsten, M. H. Böhlen, J. Gamper. The pq-gram distance between ordered labeled trees. *ACM Transactions on Database Systems (TODS)*, 35(1):1-36, 2010. [GRIN A]
- [12] M. H. Böhlen, J. Gamper, and C. S. Jensen. An algebraic framework for temporal attribute characteristics. *Annals of Mathematics and Artificial Intelligence*, 46(3): 349–374, March 2006. [GRIN B][CIR 0.79]
- [13] P. Brusilovsky, J. Knapp, and J. Gamper. Supporting teachers as content authors in intelligent educational systems. *International Journal of Knowledge and Learning*, 2(3/4): 191–215, 2006.
- [14] J. Gamper and J. Knapp. A review of intelligent CALL systems. *Computer Assisted Language Learning*, 15(4):329–342, October 2002.
- [15] J. Gamper and J. Knapp. Adaptation in a vocabulary acquisition system. *Zeitschrift Künstliche Intelligenz*, 3(2):27–30, 2002.
- [16] J. Gamper and O. Stock. Corpus-based terminology. *TERMINOLOGY*, 5(2):147–159, 1998/1999.
- [17] J. Gamper and W. Nejd. Abstract temporal diagnosis in medical domains. *Artificial Intelligence in Medicine*, 10(3):209–234, 1997. [GRIN A][CIR 0.69]

Conference and Workshop Publications

Database and Information Systems

- [18] M. Kacimi and J. Gamper. Diversifying search results of controversial queries. In *Proc. of the 20th ACM Conference on Information and Knowledge Management (CIKM-11)*, 6 pages, Glasgow, UK, October 24-28, 2011. [GRIN C]
- [19] J. Gamper, M.H. Böhlen, W. Cometti, and M. Innerebner. Defining isochrones in multimodal spatial networks. In *Proc. of the 20th ACM Conference on Information and Knowledge Management (CIKM-11)*, 4 pages, Glasgow, UK, October 24-28, 2011. [GRIN C]

- [20] B. Cadonna, J. Gamper, and M.H. Böhlen. Sequenced event set pattern matching. In *Proc. of the 14th International Conference on Extending Database Technology (EDBT-11)*, pages 33-44, Uppsala, Sweden, March 22-24, 2011. [GRIN A]
- [21] J. Gordevičius, F. J. Estrada, H. C. Lee, P. Andritsos, and J. Gamper. Ranking of evolving stories through meta-aggregation. In *Proc. of the 19th ACM Conference on Information and Knowledge Management (CIKM-10)*, pages 1909–1912, Toronto, Canada, October 26–30, 2010. [GRIN C]
- [22] S. Marciuska and J. Gamper. Determining objects within isochrones in spatial network databases. In *Proc. of the 14th East European Conference on Advances in Databases and Information Systems (ADBIS-10)*, pages 392–405, Novi Sad, Serbia, September 20–24, 2010.
- [23] R. Kasperovics, M. H. Böhlen and J. Gamper. On the efficient construction of multislices from recurrences. In *Proc. of the 22nd International Conference on Scientific and Statistical Database Management (SSDBM-10)*, pages 42–59, Heidelberg, Germany, June 30–July 2, 2010.
- [24] J. Gordevičius, J. Gamper, and M. Böhlen. Parsimonious temporal aggregation. In *Proc. of the 12th International Conference on Extending Database Technology (EDBT-09)*, pages 1006–1017, Saint Petersburg, Russia, March 24–26, 2009. [GRIN A][AR 33]
- [25] I. Timko, M. Böhlen, and J. Gamper. Sequenced spatio-temporal aggregation in road networks. In *Proc. of the 12th International Conference on Extending Database Technology (EDBT-09)*, pages 48–59, Saint Petersburg, Russia, March 24–26, 2009. [GRIN A][AR 33]
- [26] R. Kasperovics, M. H. Böhlen, and J. Gamper. Evaluating exceptions on time slices. In *Proc. of the 28th International Conference on Conceptual Modeling (ER-09)*, pages 251–264, 2009.
- [27] V. Bauer, J. Gamper, R. Loperfido, S. Profanter, S. Putzer, and I. Timko. Computing isochrones in multi-modal, schedule-based transport networks (Demo paper). In *Proc. of the 16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACMGIS-08)*, pages 1–2, Irvine, CA, USA, November 5–7, 2008.
- [28] M. Böhlen, J. Gamper, and C. S. Jensen. Towards general temporal aggregation. In *Proc. of the 25th British National Conference on Databases (BNCOD-08)*, LNCS 5071, pages 257–269, Cardiff, UK, July 7–10, 2008. Invited paper. [GRIN C][CIR 0.36]
- [29] J. Gordevičius, J. Gamper, and M. H. Böhlen. A greedy approach towards parsimonious temporal aggregation. In *Proc. of the 15th International Symposium on Temporal Representation and Reasoning (TIME-08)*, pages 88–92, Montreal, Canada, June 16–18, 2008. [GRIN A][CIR 0.41]

- [30] R. Kasperovics, M. H. Böhlen, and J. Gamper. Representing public transport schedules as repeating trips. In *Proc. of the 15th International Symposium on Temporal Representation and Reasoning (TIME-08)*, pages 54–58, Montreal, Canada, June 16–18, 2008. [GRIN A][CIR 0.41]
- [31] N. Augsten, M. H. Böhlen, C. Dyreson, and J. Gamper. Approximate joins for data centric XML. In *Proc. of the 24th International Conference on Data Engineering (ICDE-08)*, pages 814–823, Cancun, Mexico, April 7-12, 2008. [GRIN A][CIR 1.25] [AR 12.1]
- [32] N. Augsten, M. H. Böhlen, and J. Gamper. An incrementally maintainable index for approximate lookups in hierarchical data. In *Proc. of the 32nd International Conference on Very Large Databases (VLDB-06)*, pages 247–258, Seoul, Korea, September 12–15, 2006. [GRIN A][CIR 1.52] [AR 13.2]
- [33] M. H. Böhlen, J. Gamper, and C. S. Jensen. How would you like to aggregate your temporal data? In *Proc. of the 13th International Symposium on Temporal Representation and Reasoning (TIME-06)*, pages 121–136, Budapest, Hungary, June 15–17, 2006. IEEE Computer Society Press. Invited paper. [GRIN A][CIR 0.41]
- [34] M. H. Böhlen, J. Gamper, and C. S. Jensen. Multi-dimensional aggregation for temporal data. In *Proc. of the 10th International Conference on Extending Database Technology (EDBT-06)*, LNCS 3896, pages 257–275, Munich, Germany, March 2006. Springer-Verlag. [GRIN A][CIR 1.25] [AR 16]
- [35] N. Augsten, M. H. Böhlen, and J. Gamper. Approximate matching of hierarchical data using *pq*-grams. In *Proc. of the 31th International Conference on Very Large Databases (VLDB-05)*, pages 141–152, Trondheim, Norway, Aug.–Sep. 2005. Morgan Kaufmann Publishers, Inc. [GRIN A][CIR 1.52] [AR 16]
- [36] N. Augsten, M. H. Böhlen, and J. Gamper. Reducing the integration of public administration databases to approximate tree matching. In *Proc. of the Third International Conference on Electronic Government (EGOV-04)*, LNCS 3183, pages 102–107, Zaragoza, Spain, Aug/Sept 2004.
- [37] J. Gamper and N. Augsten. The role of web services in digital government. In *Proc. of the Second International Conference on Electronic Government (EGOV-03)*, LNCS 2739, pages 161–166, Prague, Czech Republic, September 2003. Springer-Verlag.
- [38] J. Gamper and P. Dongilli. Towards a portal for minority rights in Europe. In *Proc. of the IADIS International Conference on e-Society 2003*, pages 313–320, Lisbon, Portugal, June 2003. IADIS Press.
- [39] J. Gamper and N. Augsten. The "eBZ – Digital city" initiative. In *Proc. of the IADIS International Conference on e-Society 2003*, pages 156–162, Lisbon, Portugal, June 2003. IADIS Press.

- [40] J. Gamper and P. Dongilli. Towards a semantic portal for minority rights in Europe. In *Collected Posters of the First International Semantic Web Conference (ISWC 2002)*, page 20, Sardinia, Italy, June 2002.
- [41] J. Gamper, W. Nejdl, and M. Wolpers. Combining ontologies and terminologies in information systems. In *Proc. of the 5th International Congress on Terminology and Knowledge Engineering (TKE'99)*, pages 152–168, Innsbruck, Austria, August 1999.

e-Learning

- [42] J. Knapp, J. Gamper, and P. Brusilovsky. Multiple use of content in a web-based language learning system. In *Proc. of the 4th International Conference on Advanced Learning Technologies (ICALT-2004)*, pages 750–752, Joensuu, Finland, Aug. 30 – Sept. 1 2004. [CIR 0.09]
- [43] J. Knapp, J. Gamper, and P. Brusilovsky. Reuse of lexicographic examples in a web-based learners' dictionary. In *Proc. of the World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education (E-LEARN 2004)*, pages 776–783, Washington, DC, USA, November 1–5 2004.
- [44] A. Trifonova, J. Knapp, M. Ronchetti, and J. Gamper. Mobile ELDT: Transition from an e-learning to an m-learning system. In *Proc. of the World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2004)*, Lugano, Switzerland, June 21–26 2004.
- [45] A. Abel, J. Gamper, J. Knapp, and V. Weber. Evaluation of the web-based learners dictionary ELDT. In *Proc. of the World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2003)*, pages 1210–1217, Honolulu, Hawaii, June 2003.
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- [48] J. Gamper and J. Knapp. A data model and its implementation for a web-based language learning system. In *Proc. of the 12th International World Wide Web Conference (WWW-2003)*, pages 217–225, Budapest, Hungary, May 2003. [GRIN B][CIR 1.54] [AR 37]
- [49] J. Gamper and J. Knapp. XML for an electronic learners' dictionary. In *Proc. of the IADIS International Conference on WWW/Internet 2002*, pages 427–434, Lisbon, Portugal, November 2002. IADIS Press.

- [50] J. Gamper and J. Knapp. Collaborative language learning with a Web-based tandem system in South Tyrol. In *Proc. of the 1st International Conference on Educational Technology in Cultural Context*, no. 3 in International Proc. Series, pages 91–104, Joensuu, Finland, September 2002. University of Joensuu.
- [51] J. Gamper and J. Knapp. A web-based language learning system. In *Proc. of the 1st International Conference on Web-based Learning* (co-located workshop with VLDB), LNCS 2436, pages 106–118, Hong Kong, August 2002. Springer-Verlag.
- [52] J. Gamper and J. Knapp. Tutoring in a language learning system. In *Proc. of the 6th World Multiconference on Systemics, Cybernetics and Informatics*, pages 465–470, Orlando, Florida, July 2002. Selected as one of the best papers in the session "Adaptive Hypermedia in Education".
- [53] J. Gamper and J. Knapp. A Web-based tandem system for language learning in South Tyrol. In *Proc. of the World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2002)*, pages 567–568, Denver, Colorado, June 2002.
- [54] J. Gamper and J. Knapp. New media in the design of a learners' dictionary. In *Proc. of the World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2001)*, pages 541–546, Tampere, Finland, June 2001.
- [55] J. Gamper and J. Knapp. A review of call systems in foreign language instruction. In *Proc. of the 10th International Conference on Artificial Intelligence in Education (AI-ED 2001)*, pages 377–388, San Antonio, Texas, May 19–23 2001. IOS Press Amsterdam.
- [56] C. Qu, J. Gamper, and W. Nejdl. A collaborative courseware generating system based on WebDAV, XML, and JSP. In *Proc. of the IEEE International Conference on Advanced Learning Technologies (ICALT-2001)*, Madison, Wisconsin, USA, August 2001. [CIR 0.09]
- [57] C. Qu, J. Gamper, and W. Nejdl. Collaborative courseware authoring and publishing based on WebDAV, XML, and XSLT. In *Proc. of the IEEE International Conference on Trends in Communications (EUROCON-2001)*, Bratislava, Slovak Republic, July 2001.
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- [59] J. Gamper and J. Knapp. Adaptation in a language learning system. In *Proc. of the ABIS-Workshop 2001 held in conjunction with "Lehren, Lernen, Wissen und Adaptivität"*, Dortmund, Germany, October 2001.

Computer-Assisted Terminology Extraction

- [60] J. Gamper. A parallel corpus of Italian/German legal texts. In *Proc. of the Second International Conference on Language Resources & Evaluation*, pages 531–538, Athens, Greece, June 2000. [GRIN B]
- [61] J. Gamper. Encoding a parallel corpus for automatic terminology extraction. In *Proc. of the Ninth Conference of the European Chapter of the Association for Computational Linguistics*, pages 275–276, Bergen, Norway, June 1999.
- [62] J. Gamper and P. Dongilli. Primary data encoding of a bilingual corpus. In *Proc. of the 11th Annual Meeting of the GLDV*, Frankfurt a/M, Germany, July 1999.
- [63] J. Gamper. Towards the creation of an Italian/German corpus of legal texts. In *Proc. of the SLE-Workshop on Language Technologies — Multilingual Aspects*, pages 31–38, Ljubljana, Slovenia, July 1999.
- [64] J. Gamper. Improving textual knowledge representation through markup and ontologies. In *Proc. of the Symposium on Languages for Special Purposes (LSP'99)*, pages 114–125, Brixen, Italy, September 1999.
- [65] J. Gamper. Terminology and medical diagnosis systems. In *Proc. of the Twin Conference on Professional Communication and Knowledge Transfer (Pro-Com'98)*, Vienna, Austria, August 1998.
- [66] J. Gamper. Aufbau eines zweisprachigen Textkorpus für Terminologie-Extraktion. In *Proc. zur Tagung Rechtslinguistik des Deutschen und Italienischen: Ziele, Methoden, Ergebnisse*, Europäische Akademie Bozen, Italien, October 1998.

Model-Based Diagnosis and Expert Systems

- [67] J. Gamper and W. Nejdl. Modellbasierte Diagnose und Zeitliches Schließen in der Medizin. In *Arbeitspapiere zum Workshop Informationsverarbeitung in der Biomedizin (Erkennung von Stoffwechselerkrankungen)*, pages 39–54, Leipzig, June 1996. Universität Leipzig, Institut für Informatik.
- [68] J. Gamper and W. Nejdl. Proposing measurements in dynamic systems. In *Proc. of the 14th International Joint Conference on Artificial Intelligence*, pages 784–790, Montréal, Canada, August 1995. Morgan Kaufmann Publishers, Inc. [GRIN A][CIR 1.82] [AR 22]
- [69] J. Gamper and W. Nejdl. Formalizing reasoning about change: A temporal diagnosis approach. In *Fourth Congress of the Italian Association for Artificial Intelligence (AI*IA'95)*, LNAI 992, pages 335–346, Firenze, Italy, October 1995. Springer-Verlag.
- [70] J. Gamper and W. Nejdl. Formalizing reasoning about change: A temporal diagnosis approach. In *Proc. of the 2nd Dutch/German Workshop on Non-Monotonic Reasoning*, pages 60–66, Utrecht, The Netherlands, March 1995.

- [71] W. Nejdl and J. Gamper. Harnessing the power of temporal abstractions in model-based diagnosis of dynamic systems. In *Proc. of the 11th European Conference on Artificial Intelligence*, pages 667–671, Amsterdam, The Netherlands, August 1994. John Wiley & Sons. [GRIN A][CIR 0.69] [AR 31]
- [72] W. Nejdl and J. Gamper. Model-based diagnosis with qualitative temporal uncertainty. In *Proc. of the 10th Conference on Uncertainty in Artificial Intelligence*, pages 432–439, Seattle, Washington, July 1994. Morgan Kaufmann Publishers, Inc. [GRIN A][AR 48]
- [73] J. Gamper and W. Nejdl. Proposing measurements in dynamic systems. In *Working Papers of the 5th International Workshop on Principles of Diagnosis (DX-94)*, pages 114–120, New Paltz, NY, October 1994.
- [74] W. Nejdl and J. Gamper. Qualitative temporal behavior description and temporal diagnosis using interval algebra. In *4th International Workshop on Principles of Diagnosis*, pages 91–104, Aberystwyth, Wales, September 1993.
- [75] L.I. Kuncheva, R.Z. Zlatev, S.N. Neshkova, and J. Gamper. A combination scheme of artificial intelligence and fuzzy pattern recognition in medical diagnosis. In *8th Austrian Artificial Intelligence Conference (FLAI'93)*, LNAI 695, pages 157–164, Linz, Austria, June 1993. Springer-Verlag.
- [76] M. Hiesmayr, J. Gamper, T. Neugebauer, P. Mares, K.-P. Adlassnig, and W. Haider. Clinical application of patient data management systems (PDMS): Computer-assisted weaning from artificial ventilation (KBWean). In *Patient Data Management in Intensive Care*, pages 129–138. Springer-Verlag, 1993.
- [77] M. Hiesmayr, J. Gamper, P. Mares, T. Neugebauer, E. Donner, K.-P. Adlassnig, and W. Haider. Klinische Anwendung: Respiratorentwöhnung mit Datenübernahme aus dem PDMS (KBWEAN). In *Abstract Book of WIT'93, PDMS-Workshop, Wiener Intensivmedizinische Tage'93*, pages 39–40, 1993.

PhD Thesis

- [78] J. Gamper. *A temporal reasoning and abstraction framework for model-based diagnosis systems*. PhD thesis, RWTH Aachen, July 1996. Published in "infix"-Verlag, St. Augustin.

Teaching Activities

I taught courses in German, Italian, and English both at the undergraduate and graduate level and at different universities.

Free University of Bozen-Bolzano

- *Data Warehousing*, MSc in Computer Science, 24 h lecture, 2009/10–2011/12.
Course content: business intelligence, multi-dimensional modeling, SQL OLAP extensions, generalized multi-dimensional join, DW performance improvements, pre-aggregation, bitmap compression, ETL.
<http://www.inf.unibz.it/dis/teaching/DWDM>
- *Temporal and Spatial Databases*, MSc in Computer Science, 24 h lecture and 12 h exercise, 2005/06–2008/09.
Course content: time domain, structure, and granularities, temporal data models, temporal query languages, relational algebra for temporal operators, evaluation of temporal operators, spatial-temporal data models, current research problems.
<http://www.inf.unibz.it/dis/teaching/TSDB>
- *Distributed Database Systems*, MSc in Computer Science, 24 h lecture and 12 h exercise, 2007/08–2008/09.
Course content: DDBMS architecture, distributed database design, semantic integrity control, distributed query processing and optimization, transactions, concurrency control, reliability, parallel DBMS
<http://www.inf.unibz.it/dis/teaching/DDB>
- *Seminar in Databases*, MSc in Computer Science, 24 h lecture and 12 h exercise, 2008/09–2011/12.
Course content: Selected topics in database systems
<http://www.inf.unibz.it/dis/teaching/SDB>
- *Database Management Systems*, BSc in Applied Computer Science and MSc in Computer Science, 24 h lecture and 12 h exercise, 2004/05–2010/11.
Course content: Storage and file structure, indexing and hashing, query processing, query optimization, transaction processing, concurrency control, recovery system.
<http://www.inf.unibz.it/dis/teaching/DMS>
- *Introduction to Programming*, BSc in Applied Computer Science, 36 h lecture and 18 h exercise, 2001/02–2003/04.
Course content: Introduction to problem-solving, fundamental programming constructs (variables, data types, arrays, strings, expressions, operators, control structures, functions, basic I/O), principles of object-oriented programming (classes, objects, inheritance), streams, exception handling.

Programming language: Java.

<http://www.inf.unibz.it/dis/teaching/ITP>

- *Computing*, BSc in Agricultural Science and BSc in Economics, 30 h lecture and 20 h exercise, 1999/2000–2002/03.

Course content: Introduction to computer science, computer systems architecture, operating systems, data networks, Internet, database systems, programming in Visual Basic for applications.

- *Foundations of Computer Science*, BSc in Industrial Engineering, 20 h lecture and 30 h exercise, together with Prof. Nejd1, 1999/2000–2001/02.

Course content: Introduction to problem-solving, fundamental programming constructs (variables, data types, arrays, strings, expressions, operators, control structures, functions, basic I/O), principles of object-oriented programming (classes, objects, inheritance), streams, exception handling.

Programming language: Java.

University of Hannover

- Exercises in *Artificial Intelligence*, MSc in Computer Science, 1994/95–1995/96.

Course content: Problem-solving by searching, first-order logic, knowledge representation and reasoning, planning, uncertainty, probabilistic reasoning, decision trees.

Programming language: Prolog

RWTH Aachen

- Exercises in *Expert Systems*, MSc in Computer Science, 1993/94.

Course content: Prolog, searching, truth maintenance systems, reasoning with uncertainty, planning, decision trees

Programming language: Prolog

- Seminar in *Distributed Artificial Intelligence*, MSc in Computer Science, 1993/94.

Seminar book: Readings in Distributed Artificial Intelligence, by A. H. Bond and L. Gasser

University of Vienna

- Seminar in *Computer Applications in Medicine*, MSc in Computer Science, 1992/93.

Seminar book: Computer Applications in Health Care and Biomedicine, by E. H. Shortliffe, L. E. Perreault, G. Wiederhold, and L. M. Fagan

Supervision of Theses Projects

Supervision of PhD Theses

- Daniel Taliun: *Imputation of missing values in genome-wide association studies*, Free University of Bozen-Bolzano, 2011-2013.
- Bruno Cadonna: *Sequenced event set pattern matching*, Free University of Bozen-Bolzano, 2008-2011.
- Markus Innerebner: *Computing isochrones in multi-modal network databases*, Free University of Bozen-Bolzano, 2007-2011.
- Juozas Gordevicius: *Summarizing temporal data with approximate temporal aggregation and ranking*, Free University of Bolzano-Bozen, 2007–2010.
- Romans Kasperovics: *Handling recurrent events in relational databases*, Free University of Bozen-Bolzano, 2005-2009. (co-supervision with Prof. Böhlen)
- Nikolaus Augsten: *Approximate join of hierarchical data structures*, Aalborg University, Denmark, 2002–2006. (co-supervision with Prof. Böhlen)
- Judith Knapp: *A new approach to CALL content authoring*, University of Hannover, defended on October 15, 2004. (co-supervision with Prof. Nejdl)

Supervision of MSc Theses

- Gytis Tumas: *Efficient Computation of Isochrones for Very Large Networks*, Free University of Bozen-Bolzano, ongoing.
- Christian Ammendola: *Late initialization for θ -constrained multi-dimensional aggregation*, Free University of Bozen-Bolzano, March 2011.
- Anton Dignös: *Temporal unification for database management systems*, Free University of Bozen-Bolzano, October 2010.
- Daniel Taliun: *Data indexing for the interactive visualization of genome-wide association studies*, Free University of Bozen-Bolzano, October 2010.
- Sarunas Marciuska: *The allocation of dynamic objects within an isochrone*, Free University of Bozen-Bolzano, March 2010.
- Jürgen Dellatorre: *Digital identity for e-government services*, Free University of Bozen-Bolzano, September 2006.
- Juozas Gordevicius: *Controlling the size of temporal aggregation results: an information-theoretic approach*, Free University of Bozen-Bolzano, July 2006.
- Johann J. Königs: *Monitoring und Diagnose in modellbasierten Systemen*, RWTH Aachen, 1996 (co-supervision with Prof. Nejdl).
- Kuk Hwan Kang: *Verwendung von Temporal Reasoning Systemen in der modellbasierten Diagnose*, RWTH Aachen, 1995 (co-supervision with Prof. Nejdl).

- Jürgen Grief: *Integration von Modellbasierter Diagnose und temporalem Schliessen*, RWTH Aachen, 1995 (co-supervision with Prof. Nejd).

Supervision of BSc Theses

- Myriam Viertler: *Converting a QlikView Application to Oracle ODI*, Free University of Bozen-Bolzano, ongoing.
- Shoguofah Mohammad Akram: *Implementing Temporal Coalescing in SQL*, Free University of Bozen-Bolzano, ongoing.
- Peterpaul Klammer: *A Tool for Converting Public Transport Schedule Data*, Free University of Bozen-Bolzano, ongoing.
- Philipp Schmidt: *Extending Neteyes with a Business Intelligence Component*, Free University of Bozen-Bolzano, ongoing.
- Michael Mairegger: *A System to Schedule Production Processes*, Free University of Bozen-Bolzano, ongoing.
- Michael Dejori: *Clinical Data Warehousing with QlikView: a Case Study*, Free University of Bozen-Bolzano, July 2010.
- Andreas Heinisch: *Building a medical data warehouse for cancer therapies*, Free University of Bozen-Bolzano, October 2009.
- Willi Cometti: *Scalable computation of isochrones in bimodal spatial networks*, Free University of Bozen-Bolzano, July 2009.
- Anton Dignös: *Temporal multi-dimensional aggregation for almost sorted data*, Free University of Bozen-Bolzano, October 2008.
- Markus Giacomozzi: *Performance optimization of SQL queries in a large enterprise environment*, Free University of Bozen-Bolzano, July 2008.
- Günther Seeber: *Ein eGovernment Protal für Online-Anträge der Handwerker in Südtirol*, Free University of Bozen-Bolzano, July 2008.
- Andrea Moskwita: *Mining a medical data warehouse to estimate the GRP: A case study at the Hospital Meran*, Free University of Bozen-Bolzano, March 2008.
- Veronika Bauer: *Computing isochrones in multi-modal transporat networks*, Free University of Bozen-Bolzano, October 2007.
- Lukas Kaser: *Implementation and evaluation of a multidimensional temporal aggregation operator*, Free University of Bozen-Bolzano, March 2007.
- Norman Marmsoler: *Integration of independent data sources on the example of www.vistdolomites.com*, Free University of Bozen-Bolzano, October 2006.
- Dorothea Mair: *A data analysis tool to support data cleaning*, Free University of Bozen-Bolzano, March 2006.

- Davide Schuen: *A distance measure for approximate joins over residential addresses*, Free University of Bozen-Bolzano, 2004.
- Roland Innerhofer-Oberperfler: *Using approximate string matching techniques to join street names of residential addresses*, Free University of Bozen-Bolzano, 2004.
- Manuel Steiner: *Integration of security aspects in an online maintenance tracking system*, Free University of Bozen-Bolzano, 2004.
- Jürgen Dellatorre: *Multichannel access to the building construction registry*, Free University of Bozen-Bolzano, 2004.
- Hannes Silbernagl: *Analysis of performance and synchronization aspects of Microsoft's dataset technology in a web-based application*, Free University of Bozen-Bolzano, 2004.
- Anna De Villa Tondo: *Evaluation of the accessibility of a web site to people with different handicaps: the case of Bolzano-Bozen municipality*, Free University of Bozen-Bolzano, 2004.

External Examiner/Reviewer

- External reviewer for the Ph.D. thesis of Cristian Peraboni, University of Milan, March 2009.
Thesis title: *eParticipation technologies to support digital citizenship*
- External reviewer and member of the Ph.D. Defence Committee for Khadija Abied Ali, Faculty of Electrical Engineering, Czech Technical University in Prague, December 2008.
Thesis title: *A temporal extension of XML*
- External examiner for the Ph.D. mid-term exam of Pensiri Manomaisupat at the University of Surrey, Department of Computing, UK, May 2004.
Thesis title: *Automatic text categorisation using terminology resources*

Professional Activities and Services

PC Memberships

- *24th Scientific and Statistical Database Management Conference (SSDBM 2012)*, June 2012, Chania, Crete.
- *38th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM-12)*, January 2012, Spindleruv Mlyn, Czech Republic.
- *19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2011)*, November 2011, Chicago, Illinois.
- *37th ACM SIGMOD International Conference on Management of Data (SIGMOD 2011)*, June 2011, Athens, Greece.
- *14th International Conference on Extending Database Technology (EDBT-11)*, March 2011, Uppsala, Sweden.
- *23rd Scientific and Statistical Database Management Conference (SSDBM-11)*, July 2011, Portland, USA.
- *2nd International Conference on Electronic Government and the Information Systems Perspective (EGOVIS-11)*, August/September 2011, Toulouse, France.
- *26th IEEE International Conference on Data Engineering (ICDE-10)*, March 2010, Long Beach, California, USA.
- *22th International Conference on Scientific and Statistical Database Management (SSDBM-10)*, June/July 2010, Heidelberg, Germany.
- *11th International Conference on Web-Age Information Management (WAIM-10)*, July 2010, Jiuzhaigou, China.
- *1st International Conference on Electronic Government and the Information Systems Perspective (EGOVIS-10)*, August/September 2010, Bilbao, Spain.
- *36th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM-10)*, January 2010, Spindleruv Mlyn, Czech Republic.
- *Demo Track of the 12th International Conference on Extending Database Technology (EDBT-09)*, March 2009, Saint Petersburg, Russia.
- *13th East-European Conference on Advances in Databases and Information Systems (ADBIS-09)*, September 2009, Riga, Latvia.
- *12th East-European Conference on Advances in Databases and Information Systems (ADBIS-08)*, September 2008, Pori, Finland.
- *15th International Symposium on Temporal Representation and Reasoning (TIME-08)*, Montreal, Canada, June 2008.

- *VLDB 2007 PhD Workshop*, September 2007, Vienna, Austria.
- *2nd International Conference on Knowledge Management in Organisations (KMO-07)*, September 2007, Lecce, Italy.
- Track “*Dienstleistungsprozesse im e-Government*” of the Multi-Conference “*Wirtschaftsinformatik 2006*”, February 2006, Passau, Germany.
- *First International Conference on Open Source Systems (OSS2005)*, July 2005, Genova, Italy.
- *International Conference on “Rechtslinguistik des Deutschen und Italienischen: Ziele, Methoden, Ergebnisse (LinJus-99)”*, European Academy of Bozen-Bolzano, 1999, Bozen-Bolzano, Italy.

PC Chair and Organization

- Member of the organization committee the *3rd eBZ-Workshop on e-Government*, jointly organized by the Free University and the Municipality of Bozen-Bolzano, October 11–12, 2006, Bozen-Bolzano, Italy.
- PC co-chair and organization chair of the international *TED Conference on e-Government – Towards Electronic Democracy: The Challenge Ahead (TCGOV-2005)*, March 2–4, 2005, Bozen-Bolzano.
- General Chair of the *eMayor Clustering Event on Secure Information Processing in the Public Sector (SIPPS)*, March 4, 2005, Bozen-Bolzano, Italy (co-located with TCGOV-2005).
- PC co-chair and organization co-chair of the *2nd eBZ-Workshop on e-Government*, jointly organized by the Free University and the Municipality of Bozen-Bolzano, March 3, 2005, Bozen-Bolzano, Italy (co-located with TCGOV-2005).
- PC co-chair and organization co-chair of the *1st eBZ-Workshop on e-Government*, jointly organized by the Free University and the Municipality of Bozen-Bolzano, 2003, Bozen-Bolzano, Italy.
- PC chair and organization chair of the *Workshop on Corpus-Based Terminology*, European Academy of Bozen-Bolzano, 1998, Bozen-Bolzano, Italy.
- PC co-chair and organization co-chair of the *PhD Workshop at the 8th Austrian Artificial Intelligence Conference (FLAI'93)*, Linz, Austria, 1993.

Refereeing for Conferences and Journals

- Conferences: SIGMOD-09, VLDB-07, NWeSP-06, SIGMOD-04, IJCAI, LinJus-99
- Journals: TODS, TKDE, SIGMOD Record, VLDBJ, DKE, AICOM, KI Journal, AIM Journal

Services at the Faculty of Computer Science, Free University of Bozen-Bolzano

- President of the *Study Committee for the BSc in Applied Computer Science*: 2009/10-2010/11.
- Member of the *Study Committee for the PhD in Computer Science*: 2004/05 (cycle XX) – 2010/2011 (cycle XXVI).
- Coordinator of the EQANIE Accreditation procedure for the Bachelor in Computer Science and Engineering, 2011.
- Coordinator of the EURO-INF Trial Accreditation procedure for the Bachelor in Applied Computer Science, 2008.
- Member of the *Selection Committee for LLP Erasmus Student Exchange*: 2009/10.
- Member of the *Selection Committee for External Teachers and Teaching Assistants*: 2003/04–2010/11.
- Member of the *Selection Committee for the Admission to the PhD in Computer Science*: 2004/05 (cycle XX), 2005/06 (cycle XXI), 2006/07 (cycle XXII), 2009/10 (cycle XXV), 2010/11 (cycle XXVI).
- Member of the *Study Committee for the BSc in Applied Computer Science*: 2003/04–2006/07.
- Member of the *Committee for Exam Recognition and Student Exchange*: 2003/04–2005/06.
- Representative of the researcher in the *Faculty Council*: 2003/04–2006/07.
- Co-editor of the *Research Report 2001-2004*.
- Delegate member of the Faculty of Computer Science in the *Technical-Scientific Committee of the HTB Course in Practical Informatics* (“HTB Kurs Praktische Informatik”), Landesberufsschule für Handwerk und Industrie Bozen, 2002–2004, 2005–2008.
- Delegate member of the Faculty of Computer Science in the *Technical-Scientific Committee of the HTB Course for Database Developer* (“HTB Kurs Datenbankentwickler”), Landesberufsschule für Handwerk und Industrie Bozen, 2004–2005.
- Delegate member of the Faculty of Computer Science in the *Technical-Scientific Committee of the HTB Course for Network Technicians* (“HTB Kurs Netzwerktechniker”), Landesberufsschule Brixen, 2003–2008.
- Introductory lecture “Von Bits und Bytes zum grössten gemeinsamen Teiler” at the *Open Day* of the Free University of Bozen-Bolzano, 2003/04–2006/07.

- Presentation of the Bachelor in Applied Computer Science at the *Information Day* at the Free University of Bozen-Bolzano, 2003/04–2007/08.
- Presentation of the Bachelor in Applied Computer Science at local high schools: *ITC Battisi di Bolzano*, *Liceo scientifico “Albert Einstein” di Merano*, *ITI di Merano*, 2003/04–2004/05.
- Presentation “Über Bits und Bytes und die Mechanisierung des Rechnens” at the *Liceo scientifico* and *Gewerbeoberschule* of Meran, 2005.

Memberships

- Member of ACM, IEEE and AAAI

Bozen, September 17, 2011

Johann Gamper