

Curriculum Vitae



Personal Data

Born: April 2, 1971 in Aalen, Germany
Family status: Married

Scientific Career

since 04.2007 Akademischer Rat, Institute for Applied Computer Science and Formal Description Methods (AIFB), Universität Karlsruhe (TH), Germany.
12.2005 Habilitation, subject *Computer Science*, TU Dresden, Germany. Transfer of this Habilitation to Universität Karlsruhe (TH), subject *Applied Computer Science*, took place 05.2007.
08.2004–03.2007 Project leader, Institute for Applied Computer Science and Formal Description Methods (AIFB), Universität Karlsruhe (TH), Germany.
10.2003–12.2003 Research Associate, Department of Electrical Engineering and Computer Science, Case Western Reserve University, Cleveland, Ohio, USA.
02.2001–07.2004 Postdoctoral Researcher, Artificial Intelligence Institute, TU Dresden, Germany.

Scientific Education

18.09.2001 PhD awarded. Title of the thesis: Generalized metrics and topology in logic programming semantics.
01.1999–01.2001 PhD student and research assistant, Department of Mathematics, University College Cork, Ireland.
Granted exception to shorten duration of PhD studies to two years.
12.1998 Diplom in Mathematics, graded *with distinction*.
10.1994–09.1995 ERASMUS exchange student at University College Cork, Ireland.
10.1992–12.1998 Study of Mathematics and Computer Science at the Eberhard-Karls-Universität Tübingen, Germany.

Civil Service

1990–1992 Hospital *Kreiskrankenhaus Heidenheim a.d. Brenz*

School Education

05.1990 Abitur, Grade 1,3
1981–1990 Hellenstein-Gymnasium Heidenheim an der Brenz, Germany
1977–1981 Hirscheck-Grundschule Schnaitheim, Germany

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1 Research Community Activities

1.1 Editorial Boards

- *Journal of Algorithms in Cognition, Informatics, and Logic* (Elsevier), since 2008.
- *Journal of Artificial General Intelligence*, since 2008.
- *Journal Advances in Artificial Intelligence* (Hindawi), since 2007.
- Book series *Thinking Machines – Studies in Computational Cognition* (Atlantis Press), since 2008.
- Book series *Begabtenförderung im MINT-Bereich* (Aegis-Verlag, Ulm), since 2002.

1.2 Steering Committees

- Conference series *Web Reasoning and Rule Systems* (RR), since 2007. Vice-chair.¹
- Workshop series *OWL – Experiences and Directions* (OWLED), since 2007.
- Conference series *International Conference on Conceptual Structures* (ICCS), since 2006.

1.3 Conference Programme Committee Chair

- Second Conference on Artificial General Intelligence, AGI-09, Arlington, Virginia, March 2009. Programme Co-Chair.
- 14th International Conference on Conceptual Structures, ICCS06, Aalborg, Denmark, July 2006. Programme Co-Chair.

1.4 Conference Sponsor Chair

- 6th European Semantic Web Conference, ESWC2006, May/June 2009, Heraklion, Crete, Greece

1.5 Conference Organising Committee Member

- Second Conference on Artificial General Intelligence, AGI-09, Arlington, Virginia, March 2009.

1.6 Organising Committees and Chairmanships

- Workshop Nature Inspired Reasoning for the Semantic Web, NatuReS08, at ISWC2008, Karlsruhe, Germany, October 2008. Co-Chair.
- Third International Workshop on Applications of Semantic Technologies, AST2008, Munich, Germany, September 2008. Co-Chair.²
- Fourth International Workshop on Neural-Symbolic Learning and Reasoning, NeSy'08, Patras, Greece, July 2008. Co-Chair.²

¹I was co-initiator of this conference series.

²I was co-initiator of this workshop series.

- Advancing Reasoning on the Web: Scalability and Commonsense, ARea2008, Workshop at ESWC2007, Teneriffe, Spain, June 2008. Co-Chair.
- Dagstuhl Seminar on Perspectives of Recurrent Neural Networks – Models, Capacities, and Applications, January 2008. Co-Chair.
- Second International Workshop on Applications of Semantic Technologies, AST2007, at Informatik2007, Bremen, Germany, September 2007. Co-Chair.²
- International Workshop on Foundations of Artificial Intelligence, FAInt-07, at KI2007, Osnabrück, Germany, September 2007. Co-Chair.
- Third International Workshop on Neural-symbolic Learning and Reasoning, NeSy'07, at IJCAI-07, Hyderabad, India, January 2007. Co-Chair.²
- Second Workshop OWL: Experiences and Directions, OWLED2006, Athens, Georgia, November 2006. Co-Chair.
- 1st International Workshop on Applications of Semantic Technologies, AST2006, at Informatik2006, Dresden, Germany, October 2006. Co-Chair. ²
- ICANN06 special session on Semantic Web Technologies and Neural Networks, Athens, Greece, September 2006. Co-Chair.
- Second International Workshop on Neural-symbolic Learning and Reasoning, NeSy'06, at ECAI2006, Riva del Garda, Italy, August 2006. Co-Chair. ²
- Workshop on Foundational Aspects of Ontologies, FOnt2005, at KI 2005, Koblenz, Germany, September 2005. Co-Chair.
- Workshop on Neural-Symbolic Learning and Reasoning, NeSy'05, at IJCAI-05, Edinburgh, Scotland, August 2005. Co-Chair.²
- Workshop on the Theory of Computation. Special Session at the 3rd International Conference on Information, Tokyo, November/Dezember 2004. Co-Chair.
- First International Conference on the Mathematical Foundations of Computer Science and Information Technology, MFCSIT2000, Cork, July 2000. Local Co-organiser.

1.7 Journal Special Issues (Guest Editor)

- Commonsense Reasoning for the Semantic Web. Special Issue of the Springer Journal Annals of Mathematics and Artificial Intelligence. Guest co-editor. In preparation.
- Perspectives and Challenges for Recurrent Neural Networks. Special Issue of the Elsevier Journal of Algorithms in Cognition, Informatics and Logic. Guest co-editor. In preparation.

1.8 Conference Programme Committees

- DB 2009, The First International Conference on Advances in Databases, Gosier, Guadeloupe, France, March 2009.
- 5th International Conference on Web Information Systems and Technologies, WE-BIST2009.
- Computability in Europe, CiE2009, Heidelberg, Germany, June 2009.
- 3rd Asian Semantic Web Conference, ASWC2008, Pathumthani, Thailand, December 2008.
- 7th International Semantic Web Conference, ISWC2008, Karlsruhe, Germany, October 2008.
- 19th Brazilian Symposium on Artificial Intelligence, SBIA 2008, Salvador, Bahia, Brazil, October 2008.

- 11th European Conference on Logics in Artificial Intelligence, JELIA 2008, Dresden, Germany, October 2008.
- Second International Conference on Scalable Uncertainty Management, SUM 2008, Napoli, Italy, October 2008.
- 11th International Conference on Principles of Knowledge Representation and Reasoning, KR-08, Sydney, Australia, September 2008.
- 18th European Conference on Artificial Intelligence, ECAI2008, Patras, Greece, July 2008.
- 5th European Semantic Web Conference, ESWC2008, Teneriffe, Spain, June 2008.
- Foundations of Informatics, Computing, and Software, FICS'08, Shanghai, China, June 2008.
- 4th International Conference on Web Information Systems and Technologies, WEBIST2008.
- 17th International World Wide Web Conference, WWW2008, Beijing, China, April 2008. (Semantic Web Track)
- Conference in Applied Mathematics for undergraduate and graduate students, IS-CAM2008, Bratislava, Slovak Republic, April 2008.
- IEEE International Conference on Tools with Artificial Intelligence, ICTAI2007, Patras, Greece, October 2007.
- 6th International and Interdisciplinary Conference on Modeling and Using Context, CONTEXT2007, Roskilde, Denmark, August 2007.
- International Joint Conference on Neural Networks, IJCNN2007, Orlando, Florida, August 2007.
- 4th International Semantic Web Conference, ESWC2007, Innsbruck, Austria, June 2007.
- 16th International World Wide Web Conference, WWW2007, Banff, Canada, May 2007 (Semantic Web Track).
- Slovakian Conference in Applied Mathematics for undergraduate and graduate students, ISCAM2007, Bratislava, Slovak Republic, April 2007.
- 3rd International Conference on Web Information Systems and Technologies, WEBIST2007, Barcelona, Spain, March 2007.
- 2nd International Conference on Rules and Rule Markup Languages for the Semantic Web, RuleML2006, Athens, Georgia, November 2006.
- 12th International Conference on Artificial Intelligence: Methodology, Systems, Applications, AIMSA2006, Varna, Bulgaria, September 2006.
- International Conference on Artificial Neural Networks, ICANN06, Athens, Greece, September 2006.
- 4th Irish Conference on the Mathematical Foundations of Computer Science and Information Technology, MFCSIT06, Cork, Ireland, August 2006.
- 3rd European Semantic Web Conference, ESWC2006, Budva, Montenegro, June 2006.
- Slovakian Conference in Applied Mathematics for undergraduate and graduate students, ISCAM2006, Bratislava, Slovak Republic, April 2006.
- 13th International Conference on Conceptual Structures, ICCS2005, Kassel, Germany, July 2005.
- Slovakian Conference in Applied Mathematics for undergraduate and graduate students, ISCAM2005, Bratislava, Slovak Republic, April 2005.
- Slovakian Conference in Applied Mathematics for undergraduate and graduate students, ISCAM2004, Bratislava, Slovak Republic, April 2004.
- Slovakian Conference in Applied Mathematics for undergraduate and graduate students, ISCAM2003, Bratislava, Slovak Republic, April 2003.

1.9 Workshops Programme Committee

- Fourth International Workshop on Scalable Semantic Web Knowledge Base Systems, SSWS2008, Karlsruhe, Germany, October 2008.
- 1st International Workshop on Complex Event Processing for the Future Internet, iCEP-FIS08, at the Future Internet Symposium, Vienna, Austria, September 2008.
- Workshop on New forms of reasoning for the Semantic Web: scalable, tolerant and dynamic, NEFORS 2008, at the 3rd Asian Semantic Web Conference, ASWC2008, Pathumthani, Thailand, December 2008.
- 4th International Workshop on Contexts and Ontologies, C&O-2008, at ECAI2008, Patras, Greece, July 2008.
- International Workshop on Ontologies: Reasoning and Modularity, WORM-08, at ESWC2008, Tenerife, Spain, June 2008.
- Demonstrations Track at the 5th International Semantic Web Conference, ESWC2008, Tenerife, Spain, June 2008.
- 2008 International Workshop on Description Logics, DL2008, Dresden, Germany, May 2008.
- AAAI 2008 Spring Symposium on AI Meets Business Rules and Process Management, Stanford, CA, USA, March 2008.
- Semantic Web Applications and Perspectives, SWAP2007, 4th Italian Semantic Web Workshop, Bari, Italy, December 2007.
- Third International Workshop on Scalable Semantic Web Knowledge Base Systems, SSWS2007, Vilamoura, Algarve, Portugal, November 2007.
- Workshop on Modular Ontologies, WoMo2007, at the 4th International Conference on Knowledge Capture, Whistler, BC, October 2007.
- 2nd International Workshop on Applications of Logic Programming to the Web, Semantic Web and Semantic Web Services, ALPSWS2007, at ICLP2007, Porto, Portugal, September 2007.
- First Workshop on Web Scale Infrastructures for Semantic Mashup, Search and Retrieval, SemInfra2007.
- From Biology To Concurrency and Back, FBTC2007, at CONCUR2007, Lisboa, Portugal, September 2007.
- Semantic Web Applications and Perspectives, 3rd Italian Semantic Web Workshop, SWAP2006, December 2006, Pisa, Italy.
- 1st International Workshop on Semantic Media Adaptation and Personalization, SMAP2006, December 2006, Athens, Greece.
- First International Workshop on Modular Ontologies, WoMO2006, at ISWC2006, November 2006, Athens, Georgia.
- Second International Workshop on Scalable Semantic Web Knowledge Base Systems, SSWS2006, at ISWC2006, Athens, Georgia.
- Workshop on Imperfect Knowledge Modeling, Podebrady, Czech Republic, October 2006.
- International Workshop on Applications of Logic Programming in the Semantic Web and Semantic Web Services, ALPSWS2006, at ICLP2006 and FLoC2006, Seattle, Washington, August 2006.
- Semantic Web Personalization Workshop, SWP06, at ESWC2006, Budva, Montenegro, June 2006 .
- Poster/Demo session at ESWC2006, Budva, Montenegro, June 2006.
- EACL2006 Student Session, Trento, Italy, April 2006.
- Third International Workshop on Philosophy and Informatics, WSPI2006, Saarbrücken, Germany, March 2006.

1.10 Panel Chairing

1. Applications of Semantic Technologies. Chair of panel at the 2nd International Workshop on Applications of Semantic Technologies, AST2007, at Informatik 2007, Bremen, September 2007. Teilnehmer: Rainer Malaka, Ralf Möller, Massimo Paolucci.
2. Rules and Ontologies. Chair of panel at the 1st International Conference on Web Reasoning and Rule Systems, RR2007, Innsbruck, Austria, June 2007. Voraussichtliche Teilnehmer: Nicola Leone, Carsten Lutz, Massimo Paolucci, Christian de Sainte-Marie.
3. Applications of Semantic Technologies. Chair of panel at the 1st International Workshop on Applications of Semantic Technologies, AST2006, at Informatik 2006, Dresden, October 2006. Teilnehmer: Franz Baader, Hans-Peter Schnurr, Walter Waterfeld.
4. The Future of Reasoning on the Web. Chair of panel at the Workshop on Reasoning on the Web, RoW2006, at WWW2006, Edinburgh, May 2006. Teilnehmer: Ed Barkmeyer, Ian Horrocks, Peter Patel-Schneider.

1.11 Reviewing

Journals

- ACM Transactions on Internet Technology
- Applied Ontology
- Computer Languages
- Data and Knowledge Engineering
- Fundamenta Informaticae
- Fuzzy Sets and Systems
- GLDV-Journal for Computational Linguistics and Language Technology
- IEEE Transactions on Neural Networks
- Information Processing Letters
- Information Sciences
- International Journal on Semantic Web and Information Systems
- it – Information Technology
- Journal of Applied Logic
- Journal of Artificial Intelligence Research
- Journal of Automated Reasoning
- Journal of Electrical Engineering, Slovak Academy of Sciences
- Journal of Logic and Computation
- Journal of Machine Learning Research
- Journal on Data Semantics
- Journal on Web Semantics
- Logic Journal of the IGPL
- Novi Sad Journal of Mathematics
- SIAM Journal of Computing
- The Computer Journal
- Theory and Applications of Categories

Journal Special Issues (Editorial Board)

- GLDV-Journal for Computational Linguistics and Language Technology, special issue on ontologies in text technology. 2007.
- Fundamenta Informaticae special issue on RuleML-2006. 2007.
- International Journal on Semantic Web and Information Systems special issue on ontology matching. 2007.

Conferences and Workshops

- CiE2007, Computability in Europe, Siena, Italy, June 2007.
- IJCAI-07, 20th International Joint Conference on Artificial Intelligence, Hyderabad, India, January 2007.
- JELIA06, 10th European Conference on Logics in Artificial Intelligence, Liverpool, UK, September 2006.
- LICS06, 21st Annual IEEE Symposium on Logic in Computer Science, Seattle, Washington, August 2006.
- ECAI06, 17th European Conference on Artificial Intelligence, Riva del Garda, Italy, August/September 2006.
- CiE2006, Computability in Europe, Swansea, UK, June/July 2006.
- KR2006, 10th International Conference on Principles of Knowledge Representation and Reasoning, Lake District, UK, June 2006.
- ICFCA06, 4th International Conference on Formal Concept Analysis, Dresden, Germany, February 2006.
- StuS2005, 10th ESSLLI Student Session, Edinburgh, August 2005.
- ESWC2005, 2nd European Semantic Web Conference, Heraklion, Greece, May/June 2005.
- CiE2005, Computability in Europe, Amsterdam, The Netherlands, June 2005.
- KI2004, 27th German Conference on Artificial Intelligence, Ulm, Germany, September 2004.
- LICS2004, 19th Annual IEEE Symposium on Logic in Computer Science, Turku, Finland, July 2004.
- CSL2003, Computer Science Logic, Vienna, Austria, August 2003.
- WLP2002, 17th Workshop Logische Programmierung, Dresden, Germany, December 2002.
- MFCSIT2002, 2nd Irish Conference on the Mathematical Foundations of Computer Science and Information Technology, Galway, Ireland, July 2002.
- CADE2002, 18th International Conference on Automated Deduction, Copenhagen, Denmark, July 2002.
- IWF99, 3rd Irish Workshop on Formal Methods, Galway, Ireland, July 1999.

Further Reviewing

- Project applications for the Austrian *Fonds zur Förderung der wissenschaftlichen Forschung*.
- Book manuscripts for Springer.
- Book proposals for Springer.
- Internal reviewer for the EU KnowledgeWeb Network of Excellence.

1.12 Memberships

- Gesellschaft für Informatik (GI), and associated member of the Beirats der Universitätsprofessoren (GIBU) of the GI
- European Association for Theoretical Computer Science (EATCS)
- Deutsche Anwendervereinigung T_EX e.V. (DANTE)
- Emmy-Noether Verein e.V. zur Förderung von Frauen in der Mathematik und den Naturwissenschaften, Kassenprüfer
- 1997–2000 Member and treasurer of the Verein zur Förderung mathematisch begabter Jugendlicher e.V.

1.13 Further Activities

- Member of the Working Group *OWL* of the World Wide Web Consortiums (W3C).³
- Member of the Working Group *Rule Interchange Format* (RIF) of the World Wide Web Consortium (W3C).
- Founding member of the Förderverein Semantische Technologien.
- Research Collaborator of the Boole Centre for Research in Informatics, National University of Ireland, University College Cork, Ireland.
- Guest Researcher at FZI Forschungszentrum Karlsruhe.

³This working group was initiated through the Workshop series *OWL – Experiences and Directions*, for which I'm a member of the Steering Committee.

2 Projects and Funding

- ReaSem – Practical Reasoning Support for Semantic Technologies. Funded by the Deutsche Forschungsgemeinschaft (DFG). 2006–2009
Role: Co-investigator and project leader. Main author of the proposal.
- Theseus. Funded by the German Federal Ministry for Economics and Technology (BMWi). 2007–2012.
Role: Supervision of project work on scalable deduction systems for ontologies.
- NeOn – Lifecycle Support for Networked Ontologies. Funded by the European Union (IP). 2006–2010
Role: Supervision of University of Karlsruhe’s work on reasoning aspects.
- X-Media – Large Scale Knowledge Sharing and Reuse Across Media. Funded by the European Union (IP). 2006–2010
Role: Supervision of University of Karlsruhe’s work on reasoning aspects.
- KOReA – KAON2 Reasoning for SWRL and Large ABoxes. Funded by an international cooperation with Soongsil University, Seoul, Korea. 2006–2007
Role: Project leader
- SmartWeb: Mobile Broadband Access to the Semantic Web. Funded by the German Ministry for Education and Research (BMBF). Leader of the Consortium: DFKI Saarbrücken (Wolfgang Wahlster). 2004–2007
Role: Project leader and member of the steering committee for University of Karlsruhe.
- KnowledgeWeb – Realizing the Semantic Web. Network of Excellence funded by the European Union. 2004–2007
Role: Contributions to the three work packages *Scalability*, *Heterogeneity* und *Weaving the European Semantic Web Research Network*. 2007 project leader for University of Karlsruhe.
- Applications of quantitative domain theory to non-monotonic reasoning. Funded by the Foundation for Polish Science and the Mianowski Fund. One month research visit at Computer Science Institute, Department of Mathematics and Physics, Jagiellonian University, Krakow, Poland. (Stipend could not be taken for personal reasons.)
Role: Principal Investigator
- Domain Logic for Artificial Intelligence. Funded by the DAAD (Deutscher Akademischer Austauschdienst) in the postdoc-programme. Three months research visit at the Department of Electrical Engineering and Computer Science, Case Western Reserve University, Cleveland, Ohio, USA, October to Dezember 2003
Role: Principal Investigator
- The Use of Topology and Analysis in Computational Logic. Funded by Enterprise Ireland at the Department of Mathematics, National University of Ireland, University College Cork. 1999–2001
Role: Investigator

3 Publications

3.1 Books

1. P. Hitzler, M. Krötzsch, S. Rudolph, Foundations of Semantic Web Technologies. CRC Press/Taylor & Francis. In preparation.
2. S. Hölldobler, S. Bader, B. Fronhöfer, U. Hans, P. Hitzler, M. Krötzsch, T. Pietzsch. Logik und Logikprogrammierung, Band II: Aufgaben und Lösungen. Synchron Verlag, Heidelberg. In preparation.
3. P. Hitzler, M. Krötzsch, S. Rudolph and Y. Sure, Semantic Web. Grundlagen. Springer, Berlin, 2008.⁴

3.2 Edited Books

4. P. Hitzler and H. Schärfe (eds.), Conceptual Structures in Practice. Studies in Informatics, CRC Press/Taylor & Francis, 2008. In preparation.
5. B. Hammer and P. Hitzler (eds.), Perspectives of Neural-Symbolic Integration. Studies in Computational Intelligence, Springer, Berlin, 2007.
6. H. Schärfe, P. Hitzler and P. Øhrstrøm (eds.), Proceedings of the 14th International Conference on Conceptual Structures, ICCS06, Aalborg, Denmark, July 2006. Lecture Notes in Computer Science Vol. 4068, Springer, Berlin.
7. P. Hitzler, H. Schärfe and P. Øhrstrøm (eds.), Contributions to the 14th International Conference on Conceptual Structures, ICCS06, Aalborg, Denmark, July 2006. Aalborg University Press, Aalborg, Denmark, ISBN 87-7307-768-2.

3.3 Theses

8. P. Hitzler, Nichtmonotone, neuro-symbolische und begriffliche Wissensverarbeitung. Habilitation (post-doctoral) thesis (cumulative), Department of Computer Science, Technische Universität Dresden, Germany, 2005.
9. P. Hitzler, Generalized Metrics and Topology in Logic Programming Semantics. Dissertation, Department of Mathematics, National University of Ireland, University College Cork, 2001.
10. P. Hitzler, Topology and Logic Programming Semantics. Diplomarbeit in Mathematik, Universität Tübingen, 1998.

3.4 Journal Articles

11. J. Lehmann, S. Bader and P. Hitzler, Extracting Reduced Logic Programs from Artificial Neural Networks. Applied Intelligence. To appear.
12. S. Bader, P. Hitzler and S. Hölldobler, Connectionist Model Generation: A First-Order Approach. *Neurocomputing*. To appear.
13. A.K. Seda and P. Hitzler, Generalized Distance Functions in the Theory of Computation. *The Computer Journal*, 2008.

⁴First German textbook on the topic. Approx. 1000 copies sold within the first ten months.

14. S. Grimm and P. Hitzler, Semantic Matchmaking of Resources with Local Closed-World Reasoning. *International Journal of e-Commerce* 12 (2), 89-126, Winter 2007-8.
15. D. Oberle, A. Ankolekar, P. Hitzler, P. Cimiano, M. Sintek, M. Kiesel, B. Mougouie, S. Vembu, S. Baumann, M. Romanelli, P. Buitelaar, R. Engel, D. Sonntag, N. Reithinger, B. Loos, R. Porzel, H.-P. Zorn, V. Micelli, C. Schmidt, M. Weiten, F. Burkhardt and J. Zhou, DOLCE ergo SUMO: On Foundational and Domain Models in the SmartWeb Integrated Ontology (SWIntO). *Journal of Web Semantics: Science, Services and Agents on the World Wide Web* 5 (3), 2007, 156–174.
16. R. Studer, A. Ankolekar, P. Hitzler and Y. Sure, A semantic future for AI. *IEEE Intelligent Systems* 21(4), 8–9, July/August 2006.
17. P. Hitzler, M. Krötzsch and G.-Q. Zhang, A categorical view on algebraic lattices in formal concept analysis. *Fundamenta Informaticae*. 74(2–3), 301–328, 2006.
18. S. Bader, P. Hitzler and S. Hölldobler, The Integration of Connectionism and First-Order Knowledge Representation and Reasoning as a Challenge for Artificial Intelligence. *Information* 9(1), 2006.⁵
19. Y. Sure, P. Hitzler, A. Eberhart and R. Studer, The Semantic Web in One Day. *IEEE Intelligent Systems* 20(3), May/June 2005, 85–87.
20. P. Hitzler, Towards a Systematic Account of Different Semantics for Logic Programs. *Journal of Logic and Computation* 15(3), 2005, 391–404.
21. P. Hitzler and M. Wendt, A uniform approach to logic programming semantics. *Theory and Practice of Logic Programming* 5(1-2), 2005, 123–159.
22. P. Hitzler, S. Hölldobler and A.K. Seda, Logic Programs and Connectionist Networks. *Journal of Applied Logic* 2(3), 2004, 245–272. Special issue on neural-symbolic integration.
23. S. Bader and P. Hitzler, Logic Programs, Iterated Function Systems, and Recurrent Radial Basis Function Networks. *Journal of Applied Logic* 2(3), 2004, 273–300. Special issue on neural-symbolic integration.
24. P. Hitzler, A generalized resolution theorem. *Journal of Electrical Engineering* 55(1–2), Slovak Academy of Sciences, 2004, 25–30.
25. P. Hitzler and A.K. Seda, Generalized Metrics and Uniquely Determined Logic Programs. *Theoretical Computer Science* 305(1-3), 2003, 187–219.
26. P. Hitzler and A.K. Seda, Unique Supported-Model Classes of Logic Programs. *Information* 4(3), 2001, 295–302.
27. P. Hitzler and A.K. Seda, A “Converse” of the Banach Contraction Mapping Theorem. *Journal of Electrical Engineering* 52(10/s), Slovak Academy of Sciences, 2001, 3–6.
28. P. Hitzler and A.K. Seda, Dislocated Topologies. *Journal of Electrical Engineering* 51(10/s), Slovak Academy of Sciences, 2000, 3–7.
29. P. Hitzler and A.K. Seda, Some Issues Concerning Fixed-Points in Computational Logic: Quasi-Metrics, Multivalued Mappings and the Knaster-Tarski Theorem. *Topology Proceedings* 24, Summer 1999, 223–250.
30. A.K. Seda and P. Hitzler, Topology and Iterates in Computational Logic. *Topology Proceedings* 22, Summer 1997, 427–469.

3.5 Book Contributions

31. P. Hitzler and B. Parsia, Ontologies and Rules. In: S. Staab and R. Studer (eds.), *Handbook on Ontologies*, 2nd Edition. To appear.

⁵Invited paper.

32. J. Völker, P. Haase and P. Hitzler, Learning Expressive Ontologies. In: P. Cimiano and P. Buitelaar (eds.), *Bridging the Gap between Text and Knowledge*. IOS Press, Amsterdam, 2008, pp. 45–69.
33. S. Grimm, P. Hitzler and A. Abecker, Knowledge Representation and Ontologies. In: R. Studer, S. Grimm, A. Abecker, *Semantic Web Services: Concepts, Technology and Applications*, Springer, Berlin, 2007, pp. 51–106.
34. S. Bader, P. Hitzler, S. Hölldobler and A. Witzel, The Core Method: Connectionist Model Generation for First-Order Logic Programs. In: B. Hammer and P. Hitzler (eds.), *Perspectives of Neural-Symbolic Integration*. Studies in Computational Intelligence Vol. 77. Springer, 2007, ISBN 978-3-540-73952-1, pp. 205–232.
35. S. Brockmans, A. Geyer-Schulz, P. Hitzler and R. Studer, Visual Ontology Modeling for Electronic Markets. In: T. Dreier, R. Studer, C. Weinhard (eds.), *Information Management and Market Engineering*, Universitätsverlag Karlsruhe, 2006, pp. 85–100.
36. S. Bader and P. Hitzler, Dimensions of neural-symbolic integration – a structured survey. In: S. Artemov, H. Barringer, A. S. d’Avila Garcez, L. C. Lamb and J. Woods (eds.), *We Will Show Them: Essays in Honour of Dov Gabbay*, Volume 1. International Federation for Computational Logic, College Publications, 2005, pp. 167–194.
37. A.K. Seda, R. Heinze and P. Hitzler, Convergence Classes and Spaces of Partial Functions. In: G.-Q. Zhang, J. Lawson, Y.M. Liu and M.K. Luo (eds.), *Domain Theory, Logic and Computation*. Kluwer Acad. Publishers. Proceedings of the 2nd International Symposium on Domain Theory, ISDT’2001. Semantic Structures in Computation Vol. 3, 2003, 75–115.
38. P. Hitzler and A.K. Seda, The Fixed-Point Theorems of Priess-Crampe and Ribenboim in Logic Programming. In: F.V. Kuhlmann, S. Kuhlmann, and M. Marshall (eds.), *Proceedings of the International Conference and Workshop in Valuation Theory*, Saskatchewan, Canada, July 1999. Fields Institute Communications Vol. 32, 2002, 219–235.
39. P. Hitzler, Strong and Weak Topologies. In: G. Kalmbach, *Quantum Measures and Spaces*, Kluwer Acad. Publ., Dordrecht, 1998, pp. 223–231.

3.6 Conference Papers

40. S. Rudolph, M. Krötzsch, P. Hitzler, Description Logic Reasoning with Decision Diagrams: Compiling SHIQ to Disjunctive Datalog. In: *Proceedings ISWC2008*. To appear.
41. M. Krötzsch, S. Rudolph, P. Hitzler, ELP: Tractable Rules for OWL 2. In: *Proceedings ISWC2008*. To appear.
42. T. Tserendorj, S. Rudolph, M. Krötzsch, P. Hitzler, Approximate OWL-Reasoning with Screech. In: *Proceedings RR2008*. To appear.
43. S. Rudolph, T. Tserendorj, P. Hitzler, What Is Approximate Reasoning? In: *Proceedings RR2008*. To appear.
44. S. Rudolph, M. Krötzsch, P. Hitzler, Cheap Boolean Role Constructors for Description Logics. In: *Proceedings JELIA2008*. To appear.
45. M. Krötzsch, S. Rudolph, P. Hitzler, Description Logic Rules. In: Malik Ghallab, Constantine D. Spyropoulos, Nikos Fakotakis, Nikos Avouris (eds.), *Proceedings of the 18th European Conference on Artificial Intelligence, ECAI2008*, Patras, Greece, July 2008. IOS Press, 2008, pp. 80–84.
46. M. Knorr, J. Alferes, P. Hitzler, A Coherent Well-founded model for Hybrid MKNF knowledge bases. In: Malik Ghallab, Constantine D. Spyropoulos, Nikos Fakotakis, Nikos Avouris (eds.), *Proceedings of the 18th European Conference on Artificial Intelligence, ECAI2008*, Patras, Greece, July 2008. IOS Press, 2008, pp. 99–103.

47. S. Rudolph, M. Krötzsch, P. Hitzler, Terminological Reasoning in SHIQ with Ordered Binary Decision Diagrams. In: Proceedings of the 23rd AAAI Conference on Artificial Intelligence, AAAI-08, Chicago, USA, July 2008. AAAI Press, pp. 529–524.
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3.9 W3C Documents

131. H. Boley, J. de Bruijn, D. Fensel, P. Hitzler, M. Kifer, R. Krummenacher, H. Lausen, A. Polleres and R. Studer, Web Rule Language (WRL). W3C Member Submission, 09 September 2005. <http://www.w3.org/Submission/WRL/>.
132. J. de Bruijn, D. Fensel, P. Hitzler, M. Kifer and A. Polleres, Relationship of WRL to relevant other technologies. W3C Member Submission, 09 September 2005. <http://www.w3.org/Submission/WRL-related/>.

3.10 Software Demonstrations

133. A. Ankolekar, P. Buitelaar, P. Cimiano, P. Hitzler, M. Kiesel, M. Krötzsch, H. Lewen, G. Neumann, M. Sintek, T. Tserendorj and R. Studer, SmartWeb: Mobile Access to the Semantic Web. System Demo at the 5th International Semantic Web Conference, ISWC2006, Athens, Georgia, November 2006.
134. A. Ankolekar, P. Cimiano, P. Hitzler, M. Krötzsch, G. Ladwig, H. Lewen, D. Oberle, R. Studer, M. Kiesel and M. Sintek, SmartWeb: Mobile Access to the Semantic Web. System Demo at the 3rd European Semantic Web Conference, ESWC2006, Budva, Montenegro, June 2006.
135. A. Ankolekar, P. Cimiano, P. Hitzler, M. Krötzsch, G. Ladwig, H. Lewen, D. Oberle, R. Studer, M. Kiesel, M. Sintek and Hans-Peter Schnurr, SmartWeb: Mobile Access to the Semantic Web. Demo at the Developers Track at the 15th International World Wide Web Conference, WWW2006, Edinburgh, UK, May 2006.
136. P. Hitzler and D. Vrandečić, The SCREECH OWL reasoner – Scalable approximate ABox reasoning for OWL. Software Demo, 4th International Semantic Web Conference, ISWC2005, Galway, Ireland, November 2005.
137. P. Hitzler and D. Vrandečić, Screech – Faster OWL Using Split Programs. Dagstuhl Seminar 05371, Principles and Practice of Semantic Web Reasoning, PPSWR 2005, Dagstuhl, Germany, September 2005.
138. B. Motik, D. Vrandečić, P. Hitzler, Y. Sure and R. Studer, KAON2 OWL Reasoner and Tools. Second European Semantic Web Conference, ESWC2005, Iraklion, Greece, May 2005.

3.11 Poster

139. A. Ankolekar, P. Hitzler, H. Lewen, D. Oberle and R. Studer, Integrating Semantic Web Services for Mobile Access. Poster at the 3rd European Semantic Web Conference, ESWC2006, Budva, Montenegro, June 2006.
140. P. Hitzler, A Resolution Theorem for Algebraic Domains. Poster at the 18th International Joint Conference on Artificial Intelligence, IJCAI-03, Acapulco, Mexico, August 2003.
141. P. Hitzler and A.K. Seda, A Characterization of Acceptability. Poster at the 16th International Conference on Logic Programming, ICLP1999, Las Cruces, New Mexico, November 1999.

3.12 Bulletin Contributions

142. P. Hitzler and R. Studer, Wissensmanagement profitiert von Semantiktechnologien. *Computer Zeitung* 37(40), Oktober 2nd, 2006, page 21.
143. P. Hitzler, Generalized Metrics and Topology in Logic Programming Semantics. Abstract of PhD thesis. *Bulletin of the European Association of Theoretical Computer Science* 75, October 2001, 283–285.
144. A.K. Seda and P. Hitzler, Generalized Ultrametrics, Domains and an Application to Computational Logic. *Irish Mathematical Society Bulletin* 41, 1998, 31–43.

3.13 Projekt Reports and Deliverables

145. P. Hitzler, Y. Sure, J. Diederich, Report on Research Exchange and Collaboration. KnowledgeWeb Deliverable D2.6.8, October 2007.
146. P. Haase, P. Hitzler, Q. Ji, G. Qi and R. Studer, Scalable Expressive Reasoning with KAON2. KOREA Deliverable, February 2007.
147. P. Cimiano, T. Duc, P. Hitzler, M. Krötzsch, A. Lavelli, B. Schöler, G. Stoilos, K. Tso and V. Tsouvaras, Incorporating Uncertainty into RDF and OWL. X-Media Deliverable D2.1, December 2006.
148. P. Hitzler, P. Dolog, P. Groot, M. Klein, M. Mochol, L. Nixon, L. Peelen, S. Rudolph, S. Schlobach, H. Stuckenschmidt, D. Vrandecic and H. Wache, Report on realizing practical approximate and distributed reasoning for ontologies V2. KnowledgeWeb Deliverable D2.1.2.2.v2, January 2007.
149. P. Haase, P. Hitzler, Q. Ji, G. Qi and R. Studer, Scalable Reasoning for Information Access. KOREA Deliverable, November 2006.
150. P. Haase, P. Hitzler, S. Rudolph, G. Qi, M. Grobelnik, I. Mozetic, D. Bojadziev, J. Euzenat, M. d'Aquin, A. Gangemi and C. Catenacci, Context Languages – State of the Art. NeOn Deliverable D3.1.1., August 2006.
151. S. Ghita-Costache, P. Dolog, P. Hitzler, L. Serafini, W. Siberski, H. Stuckenschmidt, A. Taminin, D. Vrandecic and H. Wache, Report on realizing practical approximate and distributed reasoning for ontologies V1. KnowledgeWeb Deliverable D2.1.2.2.v1., January 2006.
152. P. Hitzler, J. Euzenat, M. Krötzsch, L. Serafini, H. Stuckenschmidt, H. Wache and A. Zimmermann, Integrated view and comparison of alignment semantics. KnowledgeWeb Deliverable D2.2.5., January 2006.
153. P. Hitzler, M. Sintek and M. Weiten, Zur Wahl der Inferenzmaschine in SmartWeb. SmartWeb internal report, June 2005.
154. P. Bouquet, M. Ehrig, J. Euzenat, E. Franconi, P. Hitzler, M. Krötzsch, L. Serafini, G. Stamou, Y. Sure and S. Tessaris, Specification of a common framework for characterizing alignment. KnowledgeWeb Deliverable D2.2.1v2, December 2004.
155. P. Groot, P. Hitzler, I. Horrocks, B. Motik, J. Z. Pan, H. Stuckenschmidt, D. Turi and H. Wache, Methods for Approximate Reasoning. KnowledgeWeb Deliverable D2.1.2, December 2004.
156. P. Cimiano, A. Eberhart, P. Hitzler, D. Oberle, S. Staab and R. Studer, The SmartWeb Foundational Ontology. SmartWeb internal report, September 2004.

4 Presentations

4.1 Invited Keynotes and Panel Discussions

1. P. Hitzler, Integrating Symbolic and Subsymbolic Cognitive Processing. Invited keynote at the Symposium on Neural-Symbolic Integration as a Means for Computational Cognition, 9. Fachtagung der Gesellschaft für Kognitionswissenschaft, KogWis 2008, Dresden, Germany, September 2008.
2. P. Hitzler, Towards subsymbolic methods for semantic knowledge. Invited keynote at the 3rd Italian Workshop on Semantic Web Applications and Perspectives, SWAP2006, Pisa, Italy, December 2006.
3. P. Hitzler, Perspectives on Formal Concept Analysis: Domain Logics and Commonsense Reasoning. Invited keynote at the 4th International Symposium on Domain Theory, Changsha, China, June 2006.
4. What contribution can automated reasoning make to e-Science? Member of panel at the 12th Workshop on Automated Reasoning, ARW-05, Edinburgh, UK, July 2005.
5. P. Hitzler, Fixed-point Semantics for Logic Programming and Nonmonotonic Reasoning: A uniform approach. Invited keynote at the Workshop on Proof Theory and Computation, Dresden, Germany, June 2002.

4.2 Invited Colloquia Talks

6. P. Hitzler, OWL 2 Rules. Invited talk, CENTRIA, Universidade Nova de Lisboa, Portugal, September 2008.
7. P. Hitzler, OWL 2 Rules. Invited talk, Universität Koblenz, Germany, June 2008.
8. P. Hitzler, Keys for Unlocking the World Wide Web. Invited talk, University of Luxembourg, March 2008.
9. P. Hitzler, Intensivkurs Mathematik – report from an enhancement programme in mathematics. Invited talk, University of Luxembourg, March 2008.
10. P. Hitzler, Applications of Semantic Technologies: Semantic MediaWiki, SmartWeb, and the added value of ontology reasoning. Invited talk, Leipzig, November 2007.
11. P. Hitzler, Semantic Web Reasoning. Invited Colloquium talk, Leipzig, November 2007.
12. P. Hitzler, Neural-Symbolic Integration. Invited talk at the Institute for Cognitive Science, Universität Osnabrück, Germany, November 2007.
13. P. Hitzler, Semantic Web Reasoning. Invited talk at the International Center for Computational Logic, TU Dresden, Germany, April 2007.
14. P. Hitzler, Applications of Semantic Technologies: Semantic MediaWiki, SmartWeb, and the added value of ontology reasoning. Invited talk at the Institut für Software- und Multi-mediatechnik, TU Dresden, Germany, April 2007.
15. P. Hitzler, Neural-symbolic Integration: overcoming the propositional fixation. Invited talk at the Department of Artificial Intelligence, University of Ulm, Germany, January 2007.
16. P. Hitzler, Knowledge Representation and Reasoning for the World Wide Web. Invited talk for the Seminar at the Department of Electrical Engineering and Computer Science, Case Western Reserve University Cleveland, Ohio, November 2006.
17. P. Hitzler, Semantically Enabled Knowledge Technologies: Logic and the Web. Invited talk at Peking University, China, June 2006.
18. P. Hitzler, Wissensverarbeitung im WWW. Invited talk at the Department of Artificial Intelligence, University of Ulm, Germany, January 2006.

19. P. Hitzler, Logic and the Web. Invited talk for the graduate college on Mathematical Logic and Applications, University of Freiburg, Germany, December 2005.
20. P. Hitzler, Topological Aspects of First-Order Neural-Symbolic Integration. Invited talk for the lecture on Logic Programming and Connectionist Systems, International Master Programme in Computational Logic, TU Dresden, Germany, June 2005.
21. P. Hitzler, Representing first-order knowledge by artificial neural networks. Invited talk for the Graduiertenkolleg *Specification of discrete processes and systems of processes by operational models and logics*, TU Dresden, May 2004.
22. P. Hitzler, Non-monotonic reasoning – domain-theoretic aspects. Invited talk at the Department of Electrical Engineering and Computer Science, Case Western Reserve University, Cleveland, Ohio, USA, December 2003.
23. P. Hitzler, Logic and Connectionism. Invited talk at the Department of Electrical Engineering and Computer Science, Syracuse University, Syracuse, New York, USA, December 2003.
24. P. Hitzler, Non-monotonic Reasoning. Invited talk for the colloquium at the Boole Research Centre in Informatics, University College Cork, Ireland, July 2003.
25. P. Hitzler, Semantic Operators in Logic Programming. Invited talk for the Graduiertenkolleg Wissensrepräsentation, Leipzig, February 2003.
26. P. Hitzler, Logic of Domains for Knowledge Representation and Reasoning. Invited talk for the colloquium at CENTRIA, Universidade Nova de Lisboa, Portugal, November 2002.
27. P. Hitzler and M. Wendt, A uniform approach to logic programming semantics. Invited talk for the colloquium at CENTRIA, Universidade Nova de Lisboa, Portugal, November 2002.
28. P. Hitzler, Logikprogrammierung, Stetigkeit, künstliche neuronale Netzwerke. Invited talk for the Bonn International Graduate School in Mathematics and Physics and the Oberseminar Mengenlehre of the Mathematical Logic Group, Department of Mathematics, University of Bonn, Germany, February 2002.
29. P. Hitzler and A.K. Seda, Verallgemeinerte Metriken in der Logikprogrammierung. Invited talk for the Colloquium *Logik und Sprachtheorie*, Department of Computer Science, University of Tübingen, December 2000.
30. P. Hitzler and A.K. Seda, Logic Programming and Neural Networks. Invited talk for the Colloquium of the Graduate College *Spezifikation diskreter Prozesse und Prozesssysteme durch operationelle Modelle und Logiken*, TU Dresden, November 2000.
31. P. Hitzler, Bereiche, Ultrametrien und azyklische Programme. Invited talk for the AG Domains und Typtheorie, Technische Hochschule Darmstadt, June 1998.

4.3 Tutorials and Courses at Summer Schools

32. S. Bader, P. Hitzler and S. Hölldobler, Integrating Logic Programs and Connectionist Systems. 20th European Summer School in Logic, Language, and Information, ESSLLI 2008, Hamburg, Germany, August 2008.
33. M. Grobelnik, I. Mozetic, M. Witbrock, P. Haase and P. Hitzler, Context Sensitivity in Knowledge Rich Systems. Tutorial at the 5th International Semantic Web Conference, ISWC2006, Athens, Georgia, November 2006.
34. S. Hölldobler, P. Hitzler and J. Pan, Knowledge Technologies, Hybrid Approaches and Neural Networks. Tutorial at the 16th International Conference on Artificial Neural Networks, ICANN06, Athens, Greece, September 2006.
35. F. van Harmelen, P. Hitzler and H. Wache, Approximate Reasoning for the Semantic Web, Advanced Course at the 18th European Summer School in Logic, Language, and Information, ESSLLI2006, Malaga, Spain, August 2006.

36. P. Hitzler, Knowledge, Reasoning, and the Semantic Web. Course at the ICCL Summer School 2006 on Knowledge Structures, Dresden, Germany, June/July 2006.
37. P. Haase, P. Hitzler, M. Krötzsch, J. Angele and R. Studer, Practical Reasoning with OWL and DL-Safe Rules. Tutorial at the 3rd European Semantic Web Conference, ESWC2006, Budva, Montenegro, June 2006.
38. S. Bader and P. Hitzler, Neural-Symbolic Learning and Reasoning. Interdisciplinary College, IK2006, Günne, Germany, March 2006.
39. B. Hammer and P. Hitzler, Connectionist Knowledge Representation and Reasoning. Tutorial at the 28th German Conference on Artificial Intelligence, KI2005, Koblenz, Germany, September 2005.
40. S. Bader, P. Hitzler and S. Hölldobler, Integrating logic programs and connectionist systems. 17th European Summer School in Logic, Language, and Information, ESLLI 2005, Edinburgh, Scotland, August 2005.

5 Teaching

5.1 Department of Economics and Business Engineering, University of Karlsruhe (TH)

- *Semantic Web Technologies I*. Lecture, WS 2008/2009 (mit S. Rudolph).⁸
- *Game Playing Computers and Artificial Intelligence*. Seminar, WS 2008/2009 (with S. Grimm).
- *Semantic Web Technologies II*. Lecture, SS 2008 (with P. Haase, S. Lamparter, D. Vrandečić).⁸
- *Social Choice Theory and Artificial Intelligence*. Seminar, SS 2008 (with G. Qi).
- *Semantic Web Technologies I*. Lecture, WS 2007/2008 (with S. Rudolph).⁸
- *Wissensverarbeitung mit Neuronalen Netzen*. Seminar, WS 2007/2008 (with S. Blohm).
- *Angewandte Informatik I*. Lecture, WS 2007/2008 (with A. Oberweis und R. Studer).
- *Intelligente Systeme im WWW: Semantic Web*. Lecture, SS 2007 (with R. Volz).
- *Angewandte Informatik I*. Lecture, WS 2006/2007 (with A. Oberweis and R. Studer).
- *Intelligente Systeme im WWW: Semantic Web*. Lecture, SS 2006 (with Y. Sure and A. Ankolekar).
- *Angewandte Informatik I*. Lecture, WS 2005/2006 (with A. Oberweis and R. Studer).
- *Semantische Technologien: Advanced Topics*. Seminar, WS 2005/2006 (with R. Studer and M. Krötzsch).
- *Intelligente Systeme im WWW: Semantic Web*. Lecture, SS 2005 (with Y. Sure).
- *Semantische Technologien: Methoden und Anwendungen*. Seminar, SS 2005 (with R. Studer and S. Bloehdorn).

5.2 International Master Programme in Computational Logic, TU Dresden

Courses taught in English.

- *Knowledge Representation and Reasoning for the Semantic Web*. Seminar, WS 2005/2006 (with M. Krötzsch).
- *Operator-based Semantics for Logic Programs*. Lecture, WS 2004/2005.
- *Game Playing Computers and Artificial Intelligence*. Seminar, SS 2004 (with S. Bader).
- *Theoretical Aspects of Logic Programming and Nonmonotonic Reasoning*. Seminar, WS 2003/2004.
- *Logic and Connectionist Systems*. Seminar, SS 2002 (with S. Hölldobler).

5.3 Teaching professionals

- Semantische Technologien. Tutorial at T-Systems Berlin, May 2007. (With A. Ankolekar).
- KAON2: Reasoning with OWL and DL-safe Rules. Tutorial at ontoprise GmbH Karlsruhe, June 2006. (with P. Haase and M. Krötzsch).
- Teacher at the Semantic Web Akademie Karlsruhe since 2005.

⁸The lectures Semantic Web Technologies I and II have been designed by myself for a new Master course. Part I is closely related to the Springer textbook *Semantic Web – Grundlagen*, which I co-authored.

5.4 Theses under my supervision

At TU Dresden

1. Matthias Wendt, Towards a unified view of the hierarchy of logic program classes. Project thesis, International Master course in Computational Logic, Fakultät Informatik, TU Dresden, 2002.
2. Sebastian Bader, Logic Programs and Iterated Function Systems. Master thesis, International Master course in Computational Logic, Fakultät Informatik, TU Dresden, 2003.
3. Matthias Knorr, Level mapping characterizations for quantitative and disjunctive logic programs. Bachelor thesis, Fakultät Informatik, TU Dresden, 2003.
4. Markus Krötzsch, Generalized Ultrametric Spaces in Quantitative Domain Theory. Project thesis, International Master course in Computational Logic, Fakultät Informatik, TU Dresden, 2004.
5. Matthias Wendt, Geometry and Axiomatics of Commonsense Reasoning: Fragments. Master thesis, International Master course in Computational Logic, Fakultät Informatik, TU Dresden, 2004.
6. Markus Krötzsch, Morphisms in Logic, Topology, and Formal Concept Analysis. Master thesis, International Master course in Computational Logic, Fakultät Informatik, TU Dresden, 2005.⁹
7. Jens Lehmann, Extracting Logic Programs from Artificial Neural Networks. Project thesis, Fakultät Informatik, TU Dresden, 2005.
8. Andreas Witzel, Integrating First-Order Logic Programs and Connectionist Systems – A Constructive Approach. Project thesis, International Master course in Computational Logic, Fakultät Informatik, TU Dresden, 2005.
9. Andreas Witzel, Neural-Symbolic Integration – Constructive Approaches. Master thesis, International Master course in Computational Logic, Fakultät Informatik, TU Dresden, 2006.
10. Andreas Lang, Four-valued Logics for Paraconsistent Reasoning. Diplomarbeit, Fakultät Informatik, TU Dresden, 2006.
11. Matthias Knorr, A Comparative Study of Disjunctive Well-Founded Semantics. Master thesis, Departamento de Informática, Universidade Nova de Lisboa, Portugal, 2006.
12. Jens Lehmann, Concept Learning in Description Logics. Diplomarbeit, Knowledge Representation and Reasoning Group, Artificial Intelligence Institute, Department of Computer Science, Dresden University of Technology, 2006.
13. Yining Wu, Implementation of Transforming Fuzzy Description Logics into Classical Description Logics. Project thesis, Knowledge Representation and Reasoning Group, Artificial Intelligence Institute, Department of Computer Science, Dresden University of Technology, 2006.
14. Natalia Cherkhago, Semi-Decidable Query Evaluation under the Well-Founded Semantics. Project thesis, Knowledge Representation and Reasoning Group, Artificial Intelligence Institute, Department of Computer Science, Dresden University of Technology, 2007.
15. Yining Wu, Transforming Fuzzy Description Logic ALCFL into Classical Description Logic ALCH. Master thesis, Knowledge Representation and Reasoning Group, Artificial Intelligence Institute, Department of Computer Science, Dresden University of Technology, 2007.

⁹This thesis was awarded the *Georg-Helm-Preis 2005* for the best Master thesis at TU Dresden 2005.

At University of Karlsruhe (TH)

1. Qingli Wang, Abbildung und Implementierung von Steuervalidierung und -berechnung in einem regelbasierten Rahmenkonzept für das SAP Tax & Revenue Management. Diplomarbeit, Fakultät Informatik, Universität Karlsruhe (TH) (in Kooperation with SAP Walldorf). August 2005.
2. Tobias Matzner, Die Jede-Welt-Annahme in der Logikprogrammierung als Pradigma zur Wissensverarbeitung für das Semantic Web. Diplomarbeit, AIFB, Universität Karlsruhe (TH), 2006.
3. Gudrun Cappel, Study on the Semantics of Disjunctive Logic Programs on Bilattices. Diplomarbeit, Department of Mathematics, Universität Karlsruhe (TH), Oktober 2007.
4. Maren Wilberscheid, Semantische Beschreibung elektronischer Marktplätze mit nicht-monotonen Beschreibungslogiken. AIFB, Universität Karlsruhe (TH), Oktober 2007.
5. Boris Bauer, Neuro-symbolisches Lernen von Ontologien. Diplomarbeit, AIFB, Universität Karlsruhe (TH), Oktober 2007.
6. Zhuoyao Wang, Semantischer Zugriff auf OWL von F-Logik. Diplomarbeit, AIFB, Universität Karlsruhe (TH), 2008.

External

1. Claudia Drobek, Efficient Reasoning in OWL and F-Logic – Steps Towards Distribution. Diplomarbeit, University of Mannheim, 2008. (External reviewer)

Dissertations

1. Daniel Oberle, Semantic Management of Middleware. Dissertation, Universität Karlsruhe (TH), 2005. (Partial supervision under R. Studer)
2. Julien Tane, Query-based Multicontexts for Knowledge Base Browsing. Dissertation, Universität Karlsruhe (TH), 2007. (Partial supervision under R. Studer)
3. Sudhir Agarwal, Formal Description of Web Services for Expressive Matchmaking. Dissertation, Universität Karlsruhe (TH), 2007. (Partial supervision under R. Studer)
4. Steffen Lamparter, Policy-based Contracting in Semantic Web Service Markets. Dissertation, Universität Karlsruhe (TH), 2007. (Partial supervision under R. Studer)
5. Saartje Brockmanns, Metamodel-based Knowledge Representation. Dissertation, Universität Karlsruhe (TH), 2007. (Partial supervision under R. Studer)
6. Stephan Grimm, Semantic Matchmaking with Nonmonotonic Description Logics, Universität Karlsruhe (TH), 2008. (Teilbetreuung. Referent: R. Studer)

6 Enhancement Programmes

6.1 Lectures and Courses

- *Nichtmonotones Schließen mit formalen Begriffen*. School project, Department of Computer Science, TU Dresden, 2003/2004. For students in 11th grade.
- *Der Kontraktionssatz auf metrischen Räumen und Verallgemeinerungen*. Lecture (16 hours), Intensivkurs Mathematik, Ulm, September 2000. For students in 12th/13th grade.
- *Einführung in \LaTeX* . Lecture (10 hours, with F. Houdek, G. Schmithüsen and K. Schmithüsen), Intensivkurs Mathematik, Donaueschingen, September 2000. For students in 12th/13th grade.
- *Der Kontraktionssatz auf metrischen Räumen und Verallgemeinerungen*. Lecture (16 hours), Intensivkurs Mathematik, Donaueschingen, September 1999. Für Schüler der Jahrgangsstufen 12 und 13.
- *Einführung in \LaTeX* . Lecture (10 hours, with F. Houdek, G. Schmithüsen and K. Schmithüsen), Intensivkurs Mathematik, Donaueschingen, September 1999. Für Schüler der Jahrgangsstufen 12 und 13.
- *Der Banachsche Fixpunktsatz und der Satz von Picard-Lindelöf*. Lecture (20 hours, with F. Lutscher), Begabtenförderungs-Workshop, Tübingen, March 1998. Für Schüler der Jahrgangsstufen 12 und 13.
- *Einführung in die Logikprogrammierung*. Lecture (18 hours), Intensivkurs Mathematik, Donaueschingen, September 1997. Für Schüler der Jahrgangsstufen 12 und 13.
- *Einführung in \LaTeX* . Lecture (10 hours, with F. Houdek, G. Schmithüsen and K. Schmithüsen), Intensivkurs Mathematik, Donaueschingen, September 1997. Für Schüler der Jahrgangsstufen 12 und 13.
- *Der Kontraktionssatz auf metrischen Räumen*. Lecture (10 hours), Intensivkurs Mathematik, Donaueschingen, September 1996. Für Schüler der Jahrgangsstufen 12 und 13.
- *Einführung in \LaTeX* . Lecture (10 hours, with F. Houdek, G. Schmithüsen and K. Schmithüsen), Intensivkurs Mathematik, Donaueschingen, September 1996. Für Schüler der Jahrgangsstufen 12 und 13.

6.2 Organisation of Events

- *Intensivkurs Mathematik*. Two-week enhancement programme for 12th/13th grade, Ulm 2001. Assistant for organisation and execution.
- *Intensivkurs Mathematik*. Two-week enhancement programme for 12th/13th grade, Donaueschingen 2000. Assistant for organisation and execution.
- *BCU Mathematics Contest*. International Enhancement Programme Maths Competition, March 2001. Co-organisation and Execution in Cork, Irland, and co-author of problem set.
- *BCU Mathematics Contest*. International Enhancement Programme Maths Competition, March 2000. Co-organisation and Execution in Cork, Irland, and co-author of problem set.
- *Intensivkurs Mathematik*. Two-week enhancement programme for 12th/13th grade, Donaueschingen 1999. Assistant for organisation and execution.
- *BCU Mathematics Contest*. International Enhancement Programme Maths Competition, March 1999. Co-organisation and Execution in Cork, Irland, and co-author of problem set.
- *Intensivkurs Mathematik*. Two-week enhancement programme for 12th/13th grade, Donaueschingen 1998. Assistant for organisation and execution.
- *Begabtenförderung-Workshop Tübingen*. One-week enhancement programme for 12th/13th grade, Tübingen, March 1998. Main organiser.

- *Intensivkurs Mathematik*. Two-week enhancement programme for 12th/13th grade, Donaueschingen 1997. Assistant for organisation and execution.
- *Intensivkurs Mathematik*. Two-week enhancement programme for 12th/13th grade, Donaueschingen 1996. Assistant for organisation and execution.

6.3 Publications and Manuscripts

1. P. Hitzler and G. Kalmbach (eds.), MINT (Mathematik, Informatik, Naturwissenschaften, Technik) Volume 18. Aegis-Verlag, Ulm, 2008. To appear.
2. P. Hitzler and G. Kalmbach, Kursarbeit mit Schülern – die Intensivkurse Mathematik. In: M. Grimm and G. Kalmbach, Begabtenförderung im MINT-Bereich Vol. 15, Aegis-Verlag, Ulm, 2007, pp. 61–68.
3. P. Hitzler and G. Kalmbach (eds.), Begabtenförderung im MINT-Bereich 12. Aegis-Verlag, Ulm, 2005.
4. K. Fritsche and P. Hitzler, Automatisiertes Schließen mit formalen Begriffen: Implementierung. In: P. Hitzler and G. Kalmbach, Begabtenförderung im MINT-Bereich 12, Aegis, Ulm, 2005, pp. 57–62.
5. P. Hitzler, Automatisiertes Schließen mit formalen Begriffen: Mathematische Grundlagen. In: P. Hitzler and G. Kalmbach, Begabtenförderung im MINT-Bereich 12, Aegis, Ulm, 2005, pp. 49–56.
6. P. Hitzler, G. Kalmbach and Z. Riecanova (eds.), Begabtenförderung im MINT-Bereich 9. Aegis-Verlag, Ulm, 2004.
7. P. Hitzler, Kontraktionssätze auf verallgemeinerten metrischen Räumen. In: A. Dvurecenskij and G. Kalmbach (eds.), Begabtenförderung im MINT-Bereich 6, Aegis-Verlag, Ulm, 2001, 79–88.
8. P. Hitzler, F. Holland and G. Kalmbach, BCU Contest 2001 Problems and Solutions. In: A. Dvurecenskij and G. Kalmbach (eds.), Begabtenförderung im MINT-Bereich 6, Aegis-Verlag, Ulm, 2001, pp. 3–16.
9. P. Hitzler and G. Kalmbach (eds.), Begabtenförderung im MINT-Bereich 5 (Aus der Mathematik und ihrer Didaktik). Aegis-Verlag, Ulm, 2000, 236 pages.
10. P. Hitzler and O. Lange (eds.), Begabtenförderung im MINT-Bereich 4 (Schwerpunkt: Geschlechterstudien – allgemein und für Mathematik). Aegis-Verlag, Ulm, 2000, 159 pages.
11. P. Hitzler and G. Kalmbach (eds.), Begabtenförderung im MINT-Bereich 3 (Dedicated to Prof. Dr. Zdenka Riecanova). Aegis-Verlag, Ulm, 2000, 233 pages.
12. P. Hitzler, F. Holland, G. Kalmbach and F.J. Klingens, Tag der Mathematik Aufgaben 1996-2000. In: P. Hitzler and G. Kalmbach, Begabtenförderung im MINT-Bereich 5. Aegis-Verlag, Ulm, 2000, pp. 35–78.
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6.4 Further activities

- Since 2006 assistant treasurer of the Emmy-Noether Verein e.V. for furthering women in Mathematics and the Sciences.
- Since 2002 member of the editorial board of the book series *Begabtenförderung im MINT-Bereich*, Aegis-Verlag, Ulm.
- 1997–2000 Member and treasurer of the Verein zur Förderung mathematisch begabter Jugendlicher e.V.
- Referee at the German Mathematics Olympiad 2007.

7 Extended Stays in Foreign Countries

7.1 Case Western Reserve University, Cleveland, Ohio

- October to December 2003
Research Associate
funded by the DAAD (Deutscher Akademischer Austauschdienst)

7.2 Universidade Nova de Lisboa, Portugal

- May 2004
Research visit
- November to December 2002
Research visit

7.3 National University of Ireland, University College Cork

- 1999–2001
Dissertation
funded by Enterprise Ireland
- October to December 1997
Diplomarbeit
- Akademic year 1994/95
ERASMUS exchange student