


# Thomas Krennwallner

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**Research and University Assistant at Vienna University of Technology**

Thomas Krennwallner received his BSc (Bakk. techn.) in software and information engineering (2005) and MSc (Dipl.-Ing.) in computational intelligence (2007) from the Vienna University of Technology, Austria. He works as a research and university assistant at the Institute of Information Systems at Vienna University of Technology, where he is currently pursuing his Ph.D. at the Knowledge-Based Systems Group. In 2007 and 2008, he was employed as research intern at the Digital Enterprise Research Institute (DERI) of the National University of Galway, Ireland. Between 1999 and 2004 he was working as software developer in several companies. He won the Content Award Vienna 2012 Smart City Price with the MyITS project. His research was honored with a best paper award of the Int'l Conference on Logic Programming and Nonmonotonic Reasoning 2011, and a best presentation award at the Doctoral Consortium of the Int'l Conference on Logic Programming 2011. He has been awarded the OCG Förderpreis 2009 (OCG advancement award 2009) of the Austrian Computer Society for his master thesis. Krennwallner is the author of two edited books, four book chapters, and one W3C Member Submission, seven journal and magazine articles, and over 35 conference and workshop papers. He was the competition chair of the Federated Logic Conference (FLoC) 2014 Olympic Games and member of the organization committee of the Vienna Summer of Logic 2014, organizing cochair of the fourth Answer Set Programming Competition 2013, and local organization cochair of the Reasoning Web (RW) 2012 summer school and the Int'l Web Reasoning and Rules Conference (RR) 2012 in Vienna. He is a team member of scientific software systems such as DLVHEX, DMCS, GiaBATA, VCWC, and XSPARQL, and a maintainer for several Debian packages.

## Personal Information

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**Degrees:** Dipl.-Ing. (MSc) Bakk. techn. (BSc)

**Driving license:** class B

**Born:** 28 January 1981 in Mödling, Austria

**Citizenship:** Austrian

## Education

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### Vienna University of Technology

*PhD Student*

Since 2008

Modular Nonmonotonic Logic Programs

Supervisor: O. Univ. Prof. Dr. techn. Thomas Eiter and Dr. techn. Michael Fink

### Vienna University of Technology

*MSc (Dipl.-Ing.) Computational Intelligence, with distinction*

2005

**Master thesis: Integration of Conjunctive Queries over Description Logics into HEX-Programs**

2007

Supervisor: O. Univ. Prof. Dr. techn. Thomas Eiter

Theory and implementation of a reasoning system that combines nonmonotonic logic programs with ontologies.

**Award: OCG Förderpreis 2009** (OCG advancement award 2009) for outstanding master thesis in the field of Computer Science by the *Austrian Computer Society*.

## Vienna University of Technology

BSc (Bakk. techn.) Software & Information Engineering

2002

2005

### Bachelor thesis: EANet Network Management

Supervisor: Univ. Prof. Dr. Schahram Dustdar

Design and implementation of a cryptographic distributed license validation system based on Java.

## Höhere Technische Bundeslehr- und Versuchsanstalt Mödling

Matura Secondary Technical College in Electronics and Technical Informatics

1995

2000

### Final examination project: MP3zzer: A Hardware MPEG 1 Layer 3 Music Player

Supervisor: Dipl.-Ing. Elmar Volgger

Design and implementation of a hardware-based MP3 sound card and a Linux kernel device driver for this card.

## Don Bosco Gymnasium Unterwaltersdorf

Lower Secondary Academic School with emphasis on science

1991

1995

## Skills Summary

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**Programming:** C++, Erlang/OTP, Java, Haskell      **Scripting:** Python, Shell, SWIG

**Database systems and technology:** PostgreSQL, MySQL, XML (XPath, XQuery), Datalog (DLV)

**Knowledge representation systems:** Answer Set Programming (Clasp / Gringo / Potassco, DLV, DLVHEX), Description logics / Ontologies (RacerPro, Protege, Pellet), RDF and RDFS (Jena, Sesame), Prolog

**Mathematical software:** GNU R, GNU Octave, Maxima

**Software Project and Code Management:** Redmine, Trac, Buildbot, Git, Bazaar, Subversion, CVS

**Unix System Developer:** Linux, Mac OS X      **High-Throughput Computing:** HTCondor

**Debian Maintainer:** <http://qa.debian.org/developer.php?login=tkren@kr.tuwien.ac.at>

**Linux System Administration:** Debian, Ubuntu

## Awards

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**August 2014:** Shortlisted for the *European Youth Award (EYA) 2014, category for Future Living* for “MyITS – My Personalized Intelligent Mobility Service,” joint work with the MyITS project team.

**November 2013:** Nominated for the *Mercur’13 Innovation Award of the Austrian Federal Economic Chamber (Wirtschaftskammer Wien)* for “MyITS – My Personalized Intelligent Mobility Service,” joint work with the MyITS project team.

**November 2012: Content Award Vienna 2012 Smart City Prize** for “MyITS – My Personalized Intelligent Mobility Service,” joint work with the MyITS project team. The award prize was sponsored by Wiener Stadtwerke Holding AG for the umbrella event Content Award Vienna 2012 organized by ZIT - Die Technologieagentur der Stadt Wien GmbH.

**July 2011: ICLP-DC 2011 Best Presentation** for “Promoting Modular Nonmonotonic Logic Programs” at the *7th ICLP Doctoral Student Consortium 2011*. This paper was selected to be presented at the *Technical Communications Track* at the *27th Int’l Conference on Logic Programming (ICLP 2011)*.

**May 2011: LPNMR 2011 Best Paper** for “Pushing Efficient Evaluation of HEX Programs by Modular Decomposition” at the *11th Int’l Conference on Logic Programming and Nonmonotonic Reasoning*,

joint work with Thomas Eiter, Michael Fink, Giovambattista Ianni, and Peter Schüller. This paper was selected to be presented at the *Large Track of Best Papers from Sister Conferences* at the *22nd Int'l Joint Conference on Artificial Intelligence (IJCAI 2011)*.

**November 2009: OCG Förderpreis 2009** (OCG advancement award 2009) for outstanding master thesis in the field of Computer Science by the *Austrian Computer Society*.

**June 2008:** Nominated for the *Best Paper Award* at the European Semantic Web Conference 2008.

**May 2008:** Nominated for the *Distinguished Young Alumnus/Alumna Award* for outstanding Master's Thesis at the Faculty of Informatics, Vienna University of Technology.

## Academic Career

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### University Assistant

*Vienna University of Technology*

**Knowledge-Based Systems Group**  
*Since 2011*

#### Responsibilities:

- Work package coordinator for Net<sup>2</sup> ([net2.deri.ie](http://net2.deri.ie)), responsible for MyITS project.
- Writing research project proposals for Austrian and European Science funds.
- Teaching and administrating university courses (250+ students) on Artificial Intelligence and Knowledge-Based Systems. Supervising over 20 student projects and master theses.
- Organization of scientific conferences and events (between 80 and over 2000 participants):
  - Member of the organization committee of the Vienna Summer of Logic 2014: [www.vsl2014.at](http://www.vsl2014.at)
  - Competition chair of Federated Logic Olympic Games 2014: [www.vsl2014.at/olympics](http://www.vsl2014.at/olympics)
  - Cochair of the 4th Answer Set Programming Competition 2013: [aspcomp2013.mat.unical.it](http://aspcomp2013.mat.unical.it)
  - Local organization of Web Reasoning and Rule Systems RR 2012 ([www.kr.tuwien.ac.at/events/rr2012](http://www.kr.tuwien.ac.at/events/rr2012)) and Reasoning Web 2012 Summer School ([www.kr.tuwien.ac.at/events/rw2012](http://www.kr.tuwien.ac.at/events/rw2012))
- Architecture and implementation of a benchmark and performance test grid with HTCondor high throughput computing system [S1].
- Significant contributions to the software architecture of the MyITS system based on PostGIS and Ontology-Based Data Access: [www.myits.at](http://www.myits.at)

#### Participating in the following projects:

- Austrian Science Foundation FWF project P24090-N23:  
*Evaluation of ASP Programs with External Source Access*
- Austrian Research Promotion Agency (FFG) project P828897:  
*MyITS (Mein persönliches intelligentes Mobilitätsservice)*
- Marie Curie Action EU FP7 People programme FP7-247601-NET2:  
*Net<sup>2</sup> (A Network for Enabling Networked Knowledge)*
- Austrian Science Foundation FWF project P20841:  
*Modular HEX-Programs*

## Research Assistant

Vienna University of Technology

Knowledge-Based Systems Group

2008

2011

### Responsibilities:

- Research of algorithms and optimization techniques for modular / distributed evaluation of nonmonotonic formalisms: HEX-programs, modular logic programs, heterogeneous multi-context systems.
- Architecture and C++ implementation of
  - distributed multi-context systems [S2]
  - modular logic programs and HEX-programs [S3]
- Responsible for Net<sup>2</sup> project (net2.der.iie).

### Participating in the following projects:

- Austrian Science Foundation FWF project P20841:  
*Modular HEX-Programs*
- Large-scale integrating project (IP) EU FP7 programme ICT-231875:  
*ONTORULE (ONTologies meet business RULEs)*
- Marie Curie Action EU FP7 People programme FP7-247601-NET2:  
*Net<sup>2</sup> (A Network for Enabling Networked Knowledge)*

## Research Intern

National University of Ireland, Galway

Digital Enterprise Research Institute

2007

2008

### Responsibilities:

- Research and implementation of a rule-based RDF(S) triple store GiaBATA [S4] in C++ based on the Datalog engine DLV, PostgreSQL, and DLVHEX.
- Research and implementation of a XQuery/SPARQL combination: XSPARQL [S5], which was built with Python using the XQilla C++ XQuery engine and the Jena Semantic Web Framework.

### Participating in the following project:

- EU FP6 project IST-034718: *inContext: Interaction & context based technologies for collaborative teams*

## Work Experience in Industry

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### Ho.bit Information Technology Ltd.

Freelance Software Engineer

Worcestershire, UK

2004

2005

- Design and implementation of a cryptographic distributed license validation system based on Java and JBoss, XML-RPC, X.509 public key infrastructure (PKI), EJBCA PKI Certificate Authority, and OpenLDAP.

### Siemens Austria AG

Software Engineering Intern

Vienna, Austria

Summer '99/'02/'03

- Designed and implemented a software interface to the Megaco/H.248 Media Gateway Control protocol stack in C++ and Erlang/OTP.
- Ported a H.323 VoIP media gateway running on VxWorks to Linux and Sun Solaris using the ACE C++ Framework and Boost C++ libraries.
- Developed a Python/C++ testing framework for Q.931 connection control and H.323 Voice over IP protocol stacks using Simplified Wrapper and Interface Generator (SWIG).

## E. Moritz GmbH

*Freelance Software Engineer and Network Administrator*

**Baden, Austria**

2000

2002

- Design and development of a C-based multimedia graphic and sound engine for a Linux-based casino slot machine using Simple Directmedia Layer (libsdl).
- Developed a Live-CD distribution based on Linux From Scratch for systems without hard disks to run the slot machine game.
- Developed an automatic hardware driver setup tool based on the libdiscover.
- Ported the DOS-based Don Gil Point of Sale application to Linux.

## Civilian Service

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### Red Cross Austria

*First Responder and Ambulance Driver*

Alternative 1-year civilian service to mandatory Austrian military service.

**Baden, Austria**

2001

2002

## Continuing Education

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**Project Management:** TU Wien HR Development, Peter Birnstingl Projektschmiede

- **Multi-project management:** Foundations, methods, and techniques for programme management / project chain / portfolio management: Full-day workshop, Nov 2014.
- **Project management (for researchers):** Foundations, methods, and techniques for managing (research) projects: Three-day workshop, Feb 2013.

**Rhetoric:** Czak Führungstraining (Three-day workshop, Jun 2006)

- Rhetoric techniques and use of body language, mindful listening, dealing with difficult dialog partners.

**Object-oriented Concepts & UML:** Siemens Training Center Wien (Two-day workshop, Sep 2002)

- Modelling constructs and notational elements of object oriented design in Java.

## Languages

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**German:** fluent

*native tongue*

**English:** proficient user

*Level C1 European Common Reference Framework*

**Mandarin (Standard Chinese):** beginner

*started in 2012*

## Research Interests

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- Answer Set Programming and Logic Programming: Algorithms, Computational Complexity, Semantics
- Knowledge Representation and Reasoning: Nonmonotonic Reasoning and Semantic Web Reasoning
- Database and Distributed Systems

# Teaching

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## University Lectures .....

### **Declarative Problem Solving**

**Vienna University of Technology**

*Since Winter 2011*

Bachelor course for Software and Information Engineering and Medical Informatics on Declarative Problem Solving with solvers and tools for SAT, Quantified Boolean Formulas (QBF), and Answer Set Programming (ASP)

### **Introduction to Artificial Intelligence**

**Vienna University of Technology**

*Since Summer 2012*

Bachelor course for Software and Information Engineering, Medical Informatics, and Technical Informatics on Artificial Intelligence with Search for Problem Solving, Planning, Constraint Satisfaction Problems, Diagnosis, Vagueness and Probabilistic Reasoning, Learning and Neural Networks

### **Introduction to Knowledge-Based Systems**

**Vienna University of Technology**

*Winter 2008, Since Summer 2012*

Bachelor course for Software and Information Engineering, Medical Informatics, and Technical Informatics on Knowledge-Based Systems with Classical Logic, Nonmonotonic Reasoning, Answer Set Programming, Probabilistic Reasoning

### **Knowledge-Based Systems**

**Vienna University of Technology**

*Since Summer 2012*

Master course for Computational Intelligence and Computational Logic on Knowledge-Based Systems with Search for Problem Solving, RETE, Predicate Logic, Description Logics, Truth Maintenance Systems, Answer Set Programming, Probabilistic Reasoning

### **KBS for Business Informatics**

**Vienna University of Technology**

*Since Winter 2011*

Master course for Business Informatics on Knowledge-Based Systems for Business Informatics with Search for Problem Solving, RETE, Answer Set Programming, Description Logics

### **Logic Programming**

**Vienna University of Technology**

*Summer 2011*

Bachelor/Master course for Software and Information Engineering, Medical Informatics, and Computational Logic on Declarative Problem Solving with Answer Set Programming and Prolog

## Supervising Student Projects .....

### **Project in Computer Science 1 & 2, Projektpraktikum**

**Vienna University of Technology**

*Since Winter 2008*

- Jürgen Weinberger: XPath Plugin for DLVHEX
- Annemarie Goldmann: Mathematica Plugin for DLVHEX
- Christoph Redl: Decision Diagram & Merging Plugin for DLVHEX

### **Project in Computational Logic**

**Vienna University of Technology**

*Since Summer 2008*

- Oleksandr Stashuk: Constraint Answer Set Programming plugin for DLVHEX
- Tri Kurniawan Wijaya: A Top-Down Solver for Modular Nonmonotonic Logic Programs
- Seif El-Din Bairakdar: Loop Formula translator for DMCS
- Melisachew Wudage Chekol: Wrapper for Pellet
- Minh Dao-Tran: Default Logic plugin for DLVHEX

## Supervising Master Theses

- Oleksandr Stashuk (graduated October 2013): “*Integrating Constraint Programming into Answer Set Programming*” (cosupervised with Thomas Eiter and Christoph Redl)
- Harald Beck (graduated October 2013): “*Inconsistency Management for Traffic Regulations*”, won the **Distinguished Young Alumnus-Award 2013** of the Faculty of Informatics, Vienna University of Technology (cosupervised with Thomas Eiter)
- Artem Konev (graduated April 2012): “*Reasoning with RDF(S) and F-logic*” (cosupervised with Thomas Eiter and Stijn Heymans)
- Tri Kurniawan Wijaya (graduated August 2011): “*Top-Down Evaluation Techniques for Modular Nonmonotonic Logic*” (cosupervised with Thomas Eiter and Minh Dao-Tran)
- Seif El-Din Bairakdar (graduated April 2011): “*Local Optimisation for Multi-Context Systems with Constraint Pushing*” (cosupervised with Thomas Eiter and Michael Fink)
- Patrik Schneider (graduated January 2011): “*Evaluation of Description Logic Programs using an RDBMS*” (cosupervised with Thomas Eiter)
- Stefan Bischof (graduated November 2010): “*Implementation and Optimization of Queries in XSPARQL*” (cosupervised with Thomas Eiter and Axel Polleres)
- Christian Drescher (graduated September 2010): “*Symmetry Breaking for Answer Set Programming*”, won the **Best EMCL Master Thesis Award 2010** of the European Master’s Program in Computational Logic (cosupervised with Thomas Eiter and Michael Fink)
- Christoph Redl (graduated July/October 2010): “*Development of a Belief Merging Framework for dlvhex*” and “*Merging of Biomedical Decision Diagrams*” (cosupervised with Thomas Eiter)
- Ksenia Rybenko (graduated June 2009): “*Collaborative Process Management in Construction by Means of Rules and Ontologies*” (cosupervised with Thomas Eiter)
- Minh Dao-Tran (graduated June 2008): “*Default Reasoning on Top of Ontologies with dl-Programs*” (cosupervised with Thomas Eiter)

## Professional Activities

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### Organization of Scientific Events

**FLoC 2014 Olympic Games:** Competition chair of the Federated Logic Conference (FLoC 2014), Vienna, Austria, July 12-24, 2014 (colocated with the Vienna Summer of Logic 2014)

**Vienna Summer of Logic 2014:** Local organization of the Vienna Summer of Logic 2014, Vienna, Austria, July 12-24, 2014

**ASP Competition 2013:** Cochair of the 4th (Open) Answer Set Programming Competition 2013 (ASP Competition 2013), Corunna, Spain, September 15-19, 2013 (colocated with the 12th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2013))

**RR 2012:** Local organization of the 6th Int’l Conference on Web Reasoning and Rule Systems 2012, held in Vienna, Austria, September 10–12, 2012

**Reasoning Web 2012:** Local organization of the 8th Reasoning Web 2012 Summer School, held in Vienna, Austria, September 3–8, 2012

### Editorial Boards

**ALP:** Association for Logic Programming (ALP) Newsletter Editorial Board, Area Editor for *Database & Semantic Web*

## Scientific Memberships.....

**RRA:** Web Reasoning and Rule Systems Association

**RW:** Advisory Board for the Reasoning Web summer school

## Program Committee Member.....

**ECAI 2014:** 21th European Conference on Artificial Intelligence 2014, Prague, Czech Republic, August 18-22, 2014

**ISWC 2013:** 12th Int'l Semantic Web Conference 2013, Evaluation Track, Sidney, Australia, October 21–25, 2013

**AAAI 2013:** 27th AAAI Conference on Artificial Intelligence, Special Track on AI and the Web, Bellevue, Washington, USA, July 14–18, 2013

**ISWC 2012:** 11th Int'l Semantic Web Conference 2012, Evaluation Track, Boston, USA, November 11–15, 2012

**ISWC 2011:** 10th Int'l Semantic Web Conference 2011, Posters and Demonstrations Track, Bonn, Germany, October 23–27, 2011

**IJCAI 2011:** 22nd Int'l Joint Conference on Artificial Intelligence 2011, Barcelona, Catalonia (Spain), July 16–22, 2011

**ISWC 2010:** 9th Int'l Semantic Web Conference 2010, Posters and Demonstrations Track, Shanghai, China, November 7–11, 2010

**BuRO 2010:** 1st Int'l Workshop on Business Rules and Ontologies 2010, colocated with RR 2010, Bressanone/Brixen, Italy September 22-24, 2010

## Invited Talks.....

**Workshop on Business Models, Business Rules and Ontologies 2010**      **Brixen/Bressanone, Italy**  
*Combining Nonmonotonic Knowledge Bases for Modular and Distributed Knowledge-Based Information Systems*      *September 2010*

**Digital Enterprise Research Institute**      **National University of Ireland, Galway**  
*Distributed Nonmonotonic Multi-Context Systems, Seminar*      *December 2009*

**Knowledge-Based Systems Group**      **Vienna University of Technology**  
*Modular Nonmonotonic Logic Programming Revisited, Seminar*      *March 2009*

## Tutorials given at Summer Schools.....

**Reasoning Web Summer School 2009**      **Brixen/Bressanone, Italy**  
*Answer Set Programming: A Primer*      *September 2009*

**Reasoning Web Summer School 2008**      **Venice, Italy**  
*Rules and Ontologies for the Semantic Web*      *September 2008*

## Talks given at Conferences and Workshops.....

**VCWC: A Versioning Competition Workflow Compiler**      **Corunna, Spain**  
*12th Int'l Conference on Logic Programming and Nonmonotonic Reasoning 2013*      *September 2013*

**Grounding HEX-Programs with Expanding Domains**      **Corunna, Spain**  
*Workshop on on Grounding and Transformations for Theories with Variables 2013*      *September 2013*

**Eliminating Unfounded Set Checking for HEX-Programs**      **Budapest, Hungary**  
*Workshop on Answer Set Programming and Other Computing Paradigms 2012*      *September 2012*



<b>Inconsistency Management for Traffic Regulations</b> <i>The AAAI 2012 Workshop on Semantic Cities</i>	<b>Toronto, Canada</b> July 2012
<b>Promoting Modular Nonmonotonic Logic Programs</b> <i>27th Int'l Conference on Logic Programming (ICLP'11) and 7th ICLP'11 DC</i>	<b>Lexington, Kentucky</b> July 2011
<b>Model Streaming for Distributed Nonmonotonic Multi-Context Systems</b> <i>2nd Int'l Workshop on Logic-based Interpretation of Context (Log-IC'11)</i>	<b>Vancouver, Canada</b> May 2011
<b>Decomposition of Distributed Nonmonotonic Multi-Context Systems</b> <i>12th European Conference on Logics in Artificial Intelligence (JELIA'10)</i>	<b>Helsinki, Finland</b> September 2010
<b>Decomposition of Distributed Nonmonotonic Multi-Context Systems</b> <i>13th Int'l Workshop on Non-Monotonic Reasoning (NMR'10)</i>	<b>Toronto, Canada</b> May 2010
<b>Distributed Nonmonotonic Multi-Context Systems: Evaluation and Decomposition</b> <i>Workshop on Hybrid Knowledge Representation and Reasoning (HKRR'10)</i>	<b>Vienna, Austria</b> March 2010
<b>Decomposition of Knowledge Bases with External Functions</b> <i>21st Int'l Joint Conference on Artificial Intelligence (IJCAI'09)</i>	<b>Pasadena, California</b> July 2009
<b>XSPARQL: Traveling between the XML and RDF Worlds</b> <i>5th European Semantic Web Conference (ESWC'08)</i>	<b>Tenerife, Spain</b> June 2008

## Demos and Posters .....

<b>12th European Conference on Logics in Artificial Intelligence (JELIA'10)</b> <i>The DMCS Solver for Distributed Nonmonotonic Multi-Context Systems</i>	<b>Helsinki, Finland</b> September 2010
<b>6th European Semantic Web Conference (ESWC'09)</b> <i>A Rule System for Querying Persistent RDFS Data</i>	<b>Heraklion, Greece</b> June 2009
<b>Junior Scientist Conference 2008</b> <i>Decomposing HEX-Programs: Preliminary Results</i>	<b>Vienna, Austria</b> November 2008
<b>2nd Int'l Conference on Web Reasoning and Rule Systems (RR'08)</b> <i>DLVHEX: A Solver for Semantic Web Reasoning under Answer Set Semantics</i>	<b>Karlsruhe, Germany</b> October 2008
<b>20th Int'l Workshop on Description Logics (DL'07)</b> <i>Exploiting Conjunctive Queries for Description Logic Programs</i>	<b>Brixen-Bressanone, Italy</b> June 2007

## Reviewing for Journals .....

**TPLP:** Theory and Practice of Logic Programming 2010, 2014  
**WWWJ:** World Wide Web, 2010

## Reviewing for Conferences and Workshops .....

**AAAI:** AAAI Conference on Artificial Intelligence 2012, 2013  
**ECAI:** European Conference on Artificial Intelligence 2010, 2014  
**ESWC:** European Semantic Web Conference 2008  
**FOIKS:** Int'l Symposium on Foundations of Information and Knowledge Systems 2010, 2014  
**ICLP:** Int'l Conference on Logic Programming 2009, 2010, 2012  
**ICSC:** IEEE Int'l Conference on Semantic Computing 2008  
**IJCAI:** Int'l Joint Conference on Artificial Intelligence 2009, 2011, 2013

**IJCAR:** Int'l Joint Conference on Automated Reasoning 2012  
**INAP:** Int'l Conference on Applications of Declarative Programming and Knowledge Management 2011  
**ISWC:** Int'l Semantic Web Conference 2009, 2010, 2011, 2012, 2013  
**JELIA:** European Conference on Logics in Artificial Intelligence 2010  
**KR:** Int'l Conference on the Principles of Knowledge Representation and Reasoning 2010  
**LPNMR:** Int'l Conference on Logic Programming and Nonmonotonic Reasoning 2009, 2013  
**PRIMA:** Int'l Conference on Principles and Practice of Multi-Agent Systems 2010  
**SOFSEM:** Int'l Conference on Current Trends in Theory and Practice of Computer Science 2013  
**SUM:** Int'l Conference on Scalable Uncertainty Management 2008  
**WWW:** Int'l World Wide Web Conference 2008, 2009, 2010  
  
**ALPSWS:** Workshop on Applications of Logic Programming to the (Semantic) Web and Web Services 2008  
**ASPOCP:** Workshop on Answer Set Programming and Other Computing Paradigms 2011  
**BuRO:** Int'l Workshop on Business Models, Business Rules and Ontologies 2010  
**CIA:** Int'l Workshop on Cooperative Information Agents 2008  
**DL:** Int'l Workshop on Description Logics 2009  
**RW:** Reasoning Web Summer School 2009

## Grants and Scholarships

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### AAAI 2012

*Student Scholarship*

*July 2012*

### ICLP 2011 Doctoral Consortium

*Student Scholarship*

*July 2011*

### FWF project P17503-MATH

*Student Grant*

**Skolem Functions**

*January, February, June, July 2007*

### Windhag-Stipendiumstiftung für Niederösterreich

*Student Grant 2005/2006*

*March 2007*

### FWF project P17212

*Student Grant*

**Answer Set Programming for the Semantic Web**

*March 2006–August 2006*

## References

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### Prof. Dr. Thomas Eiter

*Vienna University of Technology*

Head of the Institute of Information Systems

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### Prof. Dr. Axel Polleres

*Vienna University of Economics and Business*

Data & Knowledge Engineering, Bldg. D2

Institute for Information Business

Welthandelsplatz 1, 1020 Vienna, Austria

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☎ +43 1 31336 905297

✉ [axel@polleres.net](mailto:axel@polleres.net)

## Assoc. Prof. Dr. Giovambattista Ianni

University of Calabria  
Dipartimento di Matematica, Cubo 30B  
Università della Calabria, 87036 Rende (CS), Italy  
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☎ +39 0984 49 6430  
📠 +39 0984 49 6410  
✉ ianni@mat.unical.it

## Dr. Michael Fink

Vienna University of Technology  
Institute of Information Systems  
Favoritenstr. 9–11, 1040 Vienna, Austria  
📧 <http://www.kr.tuwien.ac.at/staff/michael/>  
☎ +43 1 58801 18465  
📠 +43 1 58801 18493  
✉ fink@kr.tuwien.ac.at

## Publications

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### Articles in Journals and Magazines.....

[1] Minh Dao-Tran, Thomas Eiter, Michael Fink, and Thomas Krennwallner.

#### **Distributed Evaluation of Nonmonotonic Multi-Context Systems.**

*Journal of Artificial Intelligence Research*, 2015.

Accepted for publication.

[2] Thomas Eiter, Thomas Krennwallner, Matthias Prandtstetter, Christian Rudloff, Patrik Schneider, and Markus Straub.

#### **Semantically Enriched Multi-Modal Routing.**

*International Journal of Intelligent Transportation Systems Research*, August 2014.

Published online: 05 August 2014.

[3] Yi-Dong Shen, Kewen Wang, Thomas Eiter, Michael Fink, Christoph Redl, Thomas Krennwallner, and Jun Deng.

#### **FLP answer set semantics without circular justifications for general logic programs.**

*Artificial Intelligence*, 213:1–41, August 2014.

[4] Thomas Eiter, Michael Fink, Thomas Krennwallner, Christoph Redl, and Peter Schüller.

#### **Efficient HEX-Program Evaluation based on Unfounded Sets.**

*Journal of Artificial Intelligence Research*, 49:269–321, February 2014.

[5] Francesco Calimeri, Giovambattista Ianni, Thomas Krennwallner, and Francesco Ricca.

#### **The Answer Set Programming Competition.**

*AI Magazine*, 33(4):114–118, December 2012.

[6] Stefan Bischof, Stefan Decker, Thomas Krennwallner, and Axel Polleres.

#### **Mapping between RDF and XML with XSPARQL.**

*Journal on Data Semantics*, 1(3):147–185, September 2012.

Published online: 04 September 2012.

[7] Thomas Eiter, Michael Fink, Thomas Krennwallner, and Christoph Redl.

#### **Conflict-driven ASP solving with external sources.**

*Theory and Practice of Logic Programming: Special Issue 28th International Conference on Logic Programming (ICLP 2012)*, 12(4–5):659–679, July 2012.

Published online: 05 September 2012.

[8] Thomas Eiter, Giovambattista Ianni, Thomas Krennwallner, and Roman Schindlauer.

#### **Exploiting conjunctive queries in description logic programs.**

*Annals of Mathematics and Artificial Intelligence: Logic in AI: A Special Issue Dedicated to Victor W.*

*Marek on the Occasion of His 65th birthday*, 53(1–4):115–152, August 2008.

Published online: 27 January 2009.

## Book Chapters

[B1] Minh Dao-Tran, Thomas Eiter, Michael Fink, and Thomas Krennwallner.

### **Dynamic Distributed Nonmontonic Multi-Context Systems.**

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