

# Curriculum Vitae

## Prof. Dr. Guilin Qi

Head of Knowledge Science and Engineering Lab  
School of Computer Science and Engineering  
Southeast University  
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### Research Interests

**Artificial Intelligence:** knowledge representation and reasoning, uncertainty reasoning  
**Semantic Web:** ontology engineering (including ontology reasoning, ontology evolution, ontology mapping, ontology merging), distributed reasoning (using MapReduce), social semantic web

### Education

|                   |   |
|-------------------|---|
| 09. 2003-08. 2006 | PhD in Computer Science<br>Queen's University Belfast, UK<br>Advisors: Professor David Bell and Dr. Weiru Liu |
| 09.1999-07. 2002  | MSc in Mathematics and Artificial Intelligence<br>Jiangxi Normal University, China, July 2002                 |
| 09. 1995-07. 1998 | Graduation Diploma in Mathematics<br>Yichun University, China, July 1998                                      |

### Teaching Experience and Employment

|                   |  |
|-------------------|--|
| 07. 2002-08. 2003 | <b>Assistant lecturer</b><br>Department of Mathematics<br>Yichun University (China)<br>Teaching duty: number theory and topology |
| 07. 1998-08. 1999 | <b>Assistant lecturer</b><br>Department of Mathematics<br>Yichun University (China)<br>Teaching duty: mathematical analysis      |
| 08.2006-08.2009   | Postdoctor researcher  |

Institute AIFB, University of Karlsruhe

08.2009-now            Professor  
School of Computer Science and Engineering  
Southeast University

### **Other Teaching Experience**

05. 2008-07. 2008        Seminar: Social Choice and Artificial Intelligence  
Institute AIFB, University of Karlsruhe

10. 2005-11. 2005        **Demonstrator:** Introductory Computer Programming  
School of Computer Science  
Queen's University Belfast

01. 2004-02. 2004        **Demonstrator:** Linear Programming  
School of Mathematics and Computer Science  
University of Ulster

### **AWARDS and HONORS**

- Best paper running award in the 3rd Asian Semantic Web Conference 2008. [SQJH08]  
- Best demo award in Joint International Semantic Technology Conference (JIST2011)  
for ASWC2011 and CSWC2011. [DWQPQ11]

### **Publications**

#### **Refereed Journal Publications**

Guilin Qi, Zhizheng Zhang: Preferential Semantics for Plausible Subsumption in Possibility Theory. *Minds and Machines* 23(1): 47-75, 2013. SCI, EI indexed.

Jianfeng Du, **Guilin Qi**, Yidong Shen. Weight-based Consistent Query Answering over Inconsistent SHIQ Knowledge Bases, *Knowledge and Information Systems: An International Journal*, 34(2): 335-371, 2013. SCI, EI indexed.

Chang Liu, **Guilin Qi**, Haofen Wang, Yong Yu. Reasoning With Large Scale Ontologies In Fuzzy pD\* Using MapReduce, *IEEE Computational Intelligence*, 7(2): 54-66, 2012, SCI, EI indexed.

Jianfeng Du, **Guilin Qi**, Yi-Dong Shen, Jeff Z. Pan: Towards Practical ABox Abduction in Large Description Logic Ontologies. *International Journal Semantic Web and Information Systems* 8(2): 1-33 (2012)

Liping Zhou, Houkuan Huang, **Guilin Qi**, Yue Ma, Zhisheng Huang, Youli Qu: Paraconsistent query answering over DL-Lite ontologies. *Web Intelligence and Agent Systems*, 10(1): 19-31 (2012)

Yue Ma, **Guilin Qi**, Pascal Hitzler. Computing Inconsistency Measure based on Paraconsistent Semantics. *Journal of Logic and Computation*, 21(6): 1257-1281, 2011. SCI indexed.

**Guilin Qi**, Qiu Ji, Jeff Z. Pan and Jianfeng Du. Extending Description Logics with Uncertainty Reasoning in Possibilistic Logic. *International Journal of Intelligent Systems*, 26(4): 353–381, 2011. SCI, EI indexed.

**Guilin Qi**, Weiru Liu, David Bell. Measuring Conflict and Agreement Between Two Prioritized Knowledge Bases in Possibilistic Logic. *Fuzzy Sets and Systems*, 161: 1906–1925, 2010. SCI, EI indexed.

Frank van Harmelen, Andreas Herzig, Pascal Hitzler `begin_of_the_skype_highlighting` `end_of_the_skype_highlighting`, Guilin Qi: Preface - Special issue on commonsense reasoning for the semantic web. *Annals of Mathematics and Artificial Intelligence* 58(1-2): 1-2 (2010) SCI, EI indexed.

Yue Ma, **Guilin Qi**, Guohui Xiao, Pascal Hitzler, Zuoquan Lin: Computational Complexity and Anytime Algorithm for Inconsistency Measurement. *Int. J. Software and Informatics* 4(1): 3-21 (2010)

Shuang Ren, **Guilin Qi**, Zuoquan Lin. Iterated revision in default logic. *International Journal of Innovative Computing, Information and Control*, vol. 5 (12), 4845-4857, December 2009. SCI, EI indexed.

**Guilin Qi**, Weiru Liu, David A. Bell. Combining multiple prioritized knowledge bases by negotiation, *Fuzzy Sets and Systems*, 158(23): 2535-2551, 2007. SCI, EI indexed, impact factor 1.373

**Guilin Qi**, Weiru Liu, David A. Bell. A revision-based approach to handling inconsistency in description logics, *Artificial Intelligence Review*, 26(1-2): 115-128, 2006. SCI indexed, impact factor 0.694

**Guilin Qi**, Weiru Liu, David A. Bell. Split-combination approaches for merging knowledge bases in possibilistic logic, *Annals of Mathematics and Artificial Intelligence*, 48(1-2):45-84, 2006. SCI indexed, impact factor 0.756

Weiru Liu, **Guilin Qi**, David A. Bell. Adaptive merging of prioritized knowledge bases, *Fundamenta Informaticae*, 73(3):389-407, 2006. SCI indexed, impact factor 0.586

**Guilin Qi** and Weiru Liu. Rough operators on Boolean Algebras. *International Journal of Information Science*, 173 (1-3): 49-63, 2005. SCI indexed, impact factor 2.147

**Guilin Qi**, Peter Milligan, Paul Sage. Incidence calculus on Lukasiewicz's three-valued logic. *International Journal of Fundamenta Informaticae*, 68(4): 357-378, 2005. SCI indexed, impact factor 0.586

## **Refereed Conference Publications**

**2013**

Zhangquan Zhou, **Guilin Qi**, Boontawee Suntisrivaraporn. A New Method to Finding All Justifications in OWL 2 EL, accepted by the 2013 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2013), 2013.

Jinfan Zhu, **Guilin Qi**, Kewen Wang. Tableaux Algorithms for Expressive Possibilistic Description Logics, accepted by the 2013 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2013), 2013.

## 2012

**Guilin Qi**, Kewen Wang. Conflict-based Belief Revision Operators in Possibilistic Logic, In Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI'12), AAAI Press, 800-806, 2012.

Sibei Gao, **Guilin Qi**, Haofen Wang. A new operator for ABox revision in DL-Lite, In Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI'12, short paper), AAAI Press, 2423-2424, 2012.

Chang Liu, **Guilin Qi**. Large scale temporal RDFS reasoning using MapReduce, In Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI'12, short paper), AAAI Press, 2441-2442, 2012

Zhangquan Zhou, **Guilin Qi** et.al. Reasoning with Fuzzy-EL+ Ontologies Using MapReduce, In Proceedings of the 20th European Conference on Artificial Intelligence (ECAI'12), 933-934, 2012.

Chang Liu, **Guilin Qi**. Toward Scalable Reasoning over Annotated RDF Data Using MapReduce. In Proceedings of the 6th International Conference on Web Reasoning and Rule Systems (RR'12), Springer Verlag, 238-241, 2012.

Mahsa Chitsaz, Kewen Wang, Michael Blumenstein, **Guilin Qi**. Concept Learning for EL++ by Refinement and Reinforcement. In Proceedings of the 12th Pacific Rim International Conference on Artificial Intelligence (PRICAI'12), Springer Verlag, 15-26, 2012.

**Guilin Qi**, Jianfeng Du. Reasoning with Uncertain and Inconsistent Ontologies, Reasoning Web 2012, Springer Verlag, 211-244, 2012.

Jianfeng Du, **Guilin Qi**, Jeff Z. Pan, Yidong Shen. Approximating Linear Order Inference in OWL 2 DL by Horn Compilation, In Proceedings of the 2012 IEEE/WIC/ACM International Conference on Web Intelligence (WI'12), 97-104, IEEE Computer Society, 2012.

Zhihong Chong, He Chen, Zhenjie Zhang, Hu Shu, **Guilin Qi**, Aoying Zhou. RDF Pattern Matching using Sortable Views. In Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM'12), 315-324, 2012.

## 2011

Jianfeng Du, **Guilin Qi**, Yidong Shen, Jeff Pan. Towards Practical ABox Abduction in Large OWL DL Ontologies. In Proceedings of the Twenty-Fifth Conference on Artificial Intelligence (AAAI'11), 1160-1165, AAAI Press, 2011.

Chang Liu, **Guilin Qi**, Haofen Wang, Yong Yu. Fuzzy Reasoning over RDF Data using OWL Vocabulary. In Proceedings of the 10th IEEE/WIC/ACM International Conference on Web intelligence (WI'11), 162-169, IEEE Press, 2011.

Gang Wu, **Guilin Qi**, Jianfeng Du. Finding All Justifications of OWL Entailments Using TMS and MapReduce. In Proceedings of the 20th ACM Conference on Information and Knowledge Management (CIKM'11), 1425-1434, 2011.

Xiaojun Cheng, **Guilin Qi**. An Algorithm for Axiom Pinpointing in EL+ and its Incremental Variant. In Proceedings of the 20th ACM Conference on Information and Knowledge Management (CIKM'11), 2433-2436, 2011.

Jianfeng Du, **Guilin Qi**, Jeff Z. Pan and Yi-Dong Shen. A Decomposition-based Approach to OWL DL Ontology Diagnosis. In Proceedings of the IEEE 23rd International Conference on Tools with Artificial Intelligence (ICTAI' 11), 659-664,2011.

Jianfeng Du, **Guilin Qi**, Yidong Shen, Jeff Z. Pan. A New Matchmaking Approach Based on Abductive Conjunctive Query Answering. In Proceedings of Joint International Semantic Technology Conference (JIST'11), Springer, 2011.

Chang Liu, **Guilin Qi**, Haofen Wang, Yong Yu: Large Scale Fuzzy pD \* Reasoning Using MapReduce. In Proceedings of the 10th International Semantic Web Conference (ISWC'11), 405-420, Springer, 2011.

Xing Niu, Xinruo Sun, Haofen Wang, Shu Rong, **Guilin Qi**, Yong Yu: Zhishi.me - Weaving Chinese Linking Open Data. In Proceedings of the 10th International Semantic Web Conference (ISWC'11), 205-220, Springer, 2011.

## 2010

**Guilin Qi**, Zhizheng Zhang. Preferential semantics for plausible subsumption in possibility theory. In: Proc. of the 12th International Conference on the Principles of Knowledge Representation and Reasoning (KR'10), 404-412, 2010.

Guohui Xiao, Zuoquan Lin, Yue Ma, **Guilin Qi**: Computing Inconsistency Measurements under Multi-Valued Semantics by Partial Max-SAT Solvers. In: Proc. of the 12th International Conference on the Principles of Knowledge Representation and Reasoning (KR'10), 340-349, 2010.

**Guilin Qi**, Jianfeng Du, Weiru Liu, David Bell. Merging Knowledge Bases in Possibilistic Logic by Lexicographic Aggregation. In Proceedings of the 26th Conference on Uncertainty in Artificial Intelligence (UAI'10), 458-465, 2010.

Gang Wu, Mengdong Yang, Ke Wu, **Guilin Qi**, Yuzhong Qu: Falconer: once SIOC meets semantic search engine. In: Proc. of Proceedings of the 19th International Conference on World Wide Web (WWW'10), 1317-1320, 2010.

**Guilin Qi**, Qiu Ji, Jeff Z. Pan, Jianfeng Du. PossDL - A Possibilistic DL Reasoner for Uncertainty Reasoning and Inconsistency Handling. In: Proc. of 7th Extended Semantic Web Conference (ESWC'10), Heraklion, Crete, Greece, 416-420, 2010.

**Guilin Qi**, Weiru Liu, David Bell. A Comparison of Merging Operators in Possibilistic Logic. In: Proceedings of the 4th International Conference on Knowledge Science, Engineering and Management, 39-50, 2010.

Jianfeng Du and **Guilin Qi**. Decomposition-based Optimization for Debugging of Inconsistent OWL DL Ontologies. In: Proceedings of the 4th International Conference on Knowledge Science, Engineering and Management, 39-50, 2010.

Zhihong Chong, **Guilin Qi**, Hu Shu, Jiajia Bao, Weiwei Ni and Aoying Zhou. Open User Schema Guided Evaluation of Streaming RDF. In: Proceedings of the 19th ACM Conference on Information and Knowledge Management (CIKM'10), 1281-1284, 2010.

## 2009

**Guilin Qi** and Jianfeng Du. Model-based Revision Operators for Terminologies in Description Logics, Proceedings of the Twenty-First International Joint Conference on Artificial Intelligence (IJCAI'09) , 891-897, 2009.

**Guilin Qi**, Peter Haase and Qiu Ji. A Conflict-based Operator for Mapping Revision--Theory and and Implementation, In Proceedings of the 8th International Semantic Web Conference (ISWC'09), 521-536, 2009.

Jianfeng Du, **Guilin Qi** and Qiu Ji. Goal-Directed Module Extraction for Explaining OWL DL Entailments, In Proceedings of the 8th International Semantic Web Conference (ISWC'09), 163-179, 2009.

Jianfeng Du, **Guilin Qi** and Jeff Z. Pan A Decomposition-based Approach to Optimizing Conjunctive Query Answering in OWL DL, In Proceedings of the 8th International Semantic Web Conference (ISWC'09), 146-162, 2009.

Fangkai Yang, **Guilin Qi** and Zhisheng Huang. A Distance-Based Operator to Revising Ontologies in DL SHOQ, Proceedings of the 10th European Conference Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU'09), 434-445, LNCS, 2009.

Xiaowang Zhang, **Guilin Qi**, Yue Ma and Zuoquan Lin. Quasi-Classical Semantics for Expressive Description Logics, Proceedings of the 22nd International Workshop on Description Logics (DL 2009), Oxford, United Kingdom, July 27-30, 2009. CEUR Workshop Proceedings. Vol. 477.

Qiu Ji, Peter Haase, **Guilin Qi**, Pascal Hitzler. and Stadtmüller, S. RaDON --- Repair and Diagnosis in Ontology Networks, Proceedings of the 6th Annual European Semantic Web Conference (ESWC'09) , 863-867, Heraklion, Greece, 2009.

Qiu Ji, **Guilin Qi**, Peter Haase. A Relevance-Directed Algorithm for Finding Justifications of DL Entailments. ASWC 2009: 306-320 (EI 索引)

Yue Ma, **Guilin Qi**, Guohui Xiao, Pascal Hitzler and Zuoquan Lin: An Anytime Algorithm for Computing Inconsistency Measurement. Proceedings of the 3th International Conference on Knowledge Science, Engineering and Management: 29-40

Liping Zhou, Houkuan Huang, **Guilin Qi**, Yue Ma, Zhisheng Huang, Youli Qu: Measuring Inconsistency in DL-Lite Ontologies. Web Intelligence 2009: 349-356

## 2008

**Guilin Qi**, Peter Haas, Zhisheng Huang, Qiu Ji, Jeff Z. Pan, Johanna Voelker. *A Kernel Revision Operator for Terminologies*, in the 7th International Semantic Web Conference (ISWC'08), 419-434, Springer Verlag, Karlsruhe, Germany, 2008.

**Guilin Qi**. *A Semantic Approach for Iterated Revision in Possibilistic Logic*, in Proceedings of the 23th National Conference on Artificial Intelligence (AAAI'08), 523-527, AAAI Press, 2008.

Meghyn Bienvenu, Andreas Herzig and **Guilin Qi**. *Prime Implicate-based Belief Revision Operators*, In Proceedings of the 18<sup>th</sup> European Conference on Artificial Intelligence (ECAI'08) poster, 2008.

Jianfeng Du, **Guilin Qi**, Yi-Dong Shen. Optimized Computation of Lexicographical Inference in Description Logics, in the Second International Conference on Web Reasoning and Rule Systems (RR'08), 58-73, Springer Verlag, Karlsruhe, 2008.

**Guilin Qi** and Jeff Pan. Tableau Algorithm for Possibilistic Description Logic ALC: First Results, in the Second International Conference on Web Reasoning and Rule Systems (RR'08) , 238-239, poster, Springer Verlag, Karlsruhe, 2008.

**Guilin Qi** and Fangkai Yang. *A Survey of Revision Approaches in Description Logics*, in the Second International Conference on Web Reasoning and Rule Systems (RR'08), 74-88, Springer Verlag, Karlsruhe, 2008.

**Guilin Qi** and Jeff Pan. *Tableau Algorithm for Possibilistic Description Logic ALC*, in Proceedings of the 3rd Asian Semantic Web Conference (ASWC'08), 61-75, Springer Verlag, 2008.

Boontawee Suntisrivaraporn, Guilin Qi, Qiu Ji, Peter Haase: A Modularization-Based Approach to Finding All Justifications for OWL DL Entailments. Proceedings of the 3rd Asian Semantic Web Conference (ASWC'08), 1-15, Springer Verlag, 2008.

Qiu Ji, Peter Haase, **Guilin Qi**. *Combination of Similarity Measures in Ontology Matching by OWA Operator*, in Proceedings of the 12th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 2008

## 2007

**Guilin Qi**. *A Model-based Approach for Merging Prioritized Knowledge Bases in Possibilistic Logic*. In Proceedings of Twenty-Second Conference on Artificial Intelligence (AAAI'07). 471-476, AAAI Press, 2007.

**Guilin Qi** and Anthony Hunter. *Measuring Incoherence in Description Logic-Based Ontologies*. Proceedings of 6th International Semantic Web Conference, 2nd Asian Semantic Web Conference (ISWC/ASWC'07), 381-394, LNCS 4825, Springer, 2007.

**Guilin Qi**, Jeff Z. Pan and Qiu Ji. *Extending Description Logics with Uncertainty Reasoning in Possibilistic Logic*, Proceedings of European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, 828-839, LNCS 4724, Springer, 2007

Yue Ma, **Guilin Qi**, Pascal Hitzler and Zuoquan Lin. *Measuring Inconsistency for Description Logics Based on Paraconsistent Semantics*. Proceedings of European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, 30-41, LNCS 4724, Springer, 2007

Yue Ma, **Guilin Qi**, Pascal Hitzler and Zuoquan Lin. *An Algorithm for Computing Inconsistency Measurement by Paraconsistent Semantics*, Proceedings of European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, 91-102, LNCS 4724, Springer, 2007

## 2006

**Guilin Qi**, Weiru Liu and David A. Bell. *Merging stratified knowledge bases under constraints*. In Proceedings of 21th National Conference on Artificial Intelligence (AAAI'06), AAAI Press, 2006.

**Guilin Qi**, Weiru Liu and David A. Bell. *Knowledge base revision in Description Logics*, In Proceedings of 10th European Conference on Logics in Artificial Intelligence (JELIA'06), 386-398, LNCS 4160, Springer Verlag, 2006.

**Guilin Qi**,; Liu, W. and Bell, D.A. *A revision-based approach to handling inconsistency in description logics*. In Proceedings of 11th International workshop on Non-Monotonic Reasoning (NMR06), 2006.

**Guilin Qi**, Weiru Liu and David A. Bell. *Quota-Based Merging Operators for Stratified Knowledge Bases*. In Proceedings of 1th International Conference on Knowledge Science, Engineering and Management (KSEM'06), 341-353, LNCS 4092, Springer Verlag, 2006

## 2005



**Guilin Qi**, Weiru Liu and David Bell. Measuring conflict and agreement between prioritized knowledge bases. In *Proceedings of 19<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI'05)*, Morgan Kaufmann, pp. 552-558, 2005.

**Guilin Qi**, Weiru Liu and David Bell. A revision-based approach to resolving conflicting information. In *Proceedings of 21<sup>th</sup> International Conference on Uncertainty in Artificial Intelligence (UAI'05)*, UAI Press, pp. 477-484, 2005.

**Guilin Qi**, Weiru Liu and David Bell. Combining multiple knowledge bases by negotiation: A possibilistic approach. In *Proceedings of eighth European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU05)*, LNAI, Springer, pp. 501-513, 2005.

**Guilin Qi**, Weiru Liu and David Bell. Multiple Semi-revision in Possibilistic Logic. In *Proceedings of eighth European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU05)*, LNAI, Springer, pp. 465-476, 2005 .

## 2004

**Guilin Qi**, Weiru Liu and David Glass. A split-combination method for merging inconsistent knowledge bases in the framework of possibilistic logic. In *Proceedings of 9<sup>th</sup> International Conference on Principles of Knowledge Representation and Reasoning (KR 2004)*. AAAI Press, Canada, pp. 348-356, 2004.

**Guilin Qi**, Weiru Liu and David Glass. Combining individually inconsistent prioritized knowledge bases. In *Proceedings of 10<sup>th</sup> International workshop on Non-Monotonic Reasoning (NMR04)*. ISBN 92-990021-0-X, Canada, pp. 342-350, 2004.

**Guilin Qi**. An extension of incidence calculus theory. In *Proceedings of the 10<sup>th</sup> International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU'04)*, ISBN 88-87242-54-2, pp. 467-474, 2004.

**Guilin Qi**, Weiru Liu. Rough operators on Boolean algebras. In *Proceedings of the 10<sup>th</sup> International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU'04)*, ISBN 88-87242-54-2, pp. 1741-1748, 2004.

## 2003

**Guilin Qi**. Probabilistic inference on three-valued logic. In *Proc. of 9<sup>th</sup> International Conference on Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing (RSFDGrc'03)*, LNCS 2639, pp. 690-693, 2003.

## PhD Thesis

Title: Fusion of Inconsistent and Uncertain Beliefs in Possibilistic Logic, 2006

## Software

RaDON : a Software to Repair and Diagnosis for Ontology Networks (under development)

## Projects

### Active

- National Natural Science Foundation of China (NSFC) under grant No. 61272378 (2013.1-2016.12), " Research on Approaches for Ontology Merging in Description Logics ", 810,000 Chinese Yuan, Guilin Qi is the project leader.
- National Natural Science Foundation of China (NSFC) under grant No. 61003157 (2011.1-2013.12), " Research on Key Technologies for Ontology Debugging in Description Logics", 200,000 Chinese Yuan, Guilin Qi is the project leader.
- EU FP7 Marie Curie IRSES under grant No. 612551 (2013.10-2017.4), "Semantic Data Management", 405,800 Euro, Guilin Qi is a project leader of the WP for efficient reasoning with semantic data.
- ARC Discovery: A framework for scalable ontology enrichment and change, 2013-2015 (Kewen Wang, Yuefeng Li, Rodney Topor, Guilin Qi and Grigoris Antoniou)
- National Natural Science Foundation of China (NSFC) under grant No. 61003157 (2010.1-2012.12), "Distributed reasoning technologies for large scale RDF data", 170,000 Chinese Yuan, Guilin Qi is the second investigator

### Finished

- KOReA : KAON2 Reasoning for SWRL and Large ABoxes
- NeOn : Lifecycle Support for Networked Ontologies  
(<http://www.neon-project.org/web-content/>)
- OntoLoRe : Ontology Logic and Reasoning  
(<http://logic.aifb.uni-karlsruhe.de/wiki/ONTOLORE>)

### Invited keynote and speaker addresses at international meetings/workshops

- "Toward Scalable Reasoning over Annotated Semantic Data Using MapReduce", invited talk at the 2013 International Forum on Advances in Information Technology (IFAIT2013), Zhenjiang, China, October 2013
- "Reasoning with Uncertain and Inconsistent Ontologies on the Semantic Web", invited lecture at Reasoning Web summer school at Vienna, September 2012.
- "Debugging ontologies and mappings in ontology networks", tutorial given at 10th International Semantic Web Conference (with Patrick Lambrix and Christian Meilicke), October 2011.
- "Large-Scale Ontology Reasoning and Querying", tutorial given at the Twenty-Fourth AAAI Conference on Artificial Intelligence (with Jeff Z. Pan and Jianfeng Du), July 2010.
- "Finding justifications of entailments in OWL ontologies", invited talk at the 3rd Chinese Semantic Web Symposium in Nanjing, August 2009.
- "Explanation of OWL Entailments and Its Role in Inconsistency Handling in OWL", tutorial given at 4th Asian Semantic Web Conference, December 2009.
- "Belief Revision in Description Logics and Its Application to the Semantic Web", invited talk at Tsinghua University and Chinese Academy of Science, September 2008.

## **Professional Activities**

### **Member of Editorial Boards**

- Journal of Web Semantics
- Associate editor at Journal of Advances in Artificial Intelligence, Hindawi Publishing Corporation
- Chinese Journal of Mathematics
- Co-editor of a special issue of Annals of mathematics and Artificial Intelligence
- Co-editor of a special issue of Journal of Applied Logic

### **Conference Organization**

- General Co-chair of Joint Conference of the Seventh Chinese Semantic Web Symposium (CSWS2013) and the Second Chinese Web Science Conference, Shanghai, August 2013
- Poster and Demo Track Co-Chair of the 3rd Joint International Semantic Technology Conference, Seoul, December 2013
- Poster and Demo Track Co-Chair of the 19th International Conference on Knowledge Engineering and Knowledge Management, in Linköping, November 2014
- PC Co-chair of Joint Conference of the Sixth Chinese Semantic Web Symposium (CSWS2012) and the First Chinese Web Science Conference (CWSC2012), Shenzhen, November 2012
- Poster and Demo Track Co-Chair of the 10th International Semantic Web Conference (ISWC'11), Bonn, October 2011
- PC Co-chair of the Third Chinese Semantic Web Symposium (CSWS2009), Nanjing, August 2009
- Local Chair of Doctoral Consortium at 7th International Semantic Web Conference, Karlsruhe, October 2008

### **Workshop Organization (co-chair)**

- Challenging the Big Data Problem on the Web (BigWebData2013), collocated with WISE '13, Nanjing, China
- Second International Workshop on Debugging Ontologies and Ontology Mappings, collocated with ESWC'12
- First International Workshop on Debugging Ontologies and Ontology Mappings, collocated with EKAW'12
- International Workshop on Automated Reasoning about Context and Ontology Evolution (ARCOE-10), collocated with ECAI'10
- International Workshop on Ontology Dynamics (IWOD-10) hosted by ISWC'10
- Automated Reasoning about Context and Ontology Evolution (ARCOE-09), collocated with IJCAI'09
- First International Workshop on Reasoning on the Web: Scalability and Commonsense (ARea 2008), collocated with ESWC'08
- Third International Workshop on Context and Ontologies (C&O 2008), collocated with ECAI'08

### **Conference and Workshop Programme Committee**

- PC member of the 23rd International Joint Conference on Artificial Intelligence (IJCAI'13)
- PC member of the 27th Conference on Artificial Intelligence (AAAI'13)
- PC member of the 12th International Semantic Web Conference (ISWC'13)
- PC member of the 6th International Conference on Scalable Uncertainty Management(SUM'13)
- PC member of the 10th Extended Semantic Web Conference (ESWC'13)
- PC member of the 21th International Conference on the Principles of Knowledge Representation and Reasoning (KR'12)
- PC member of the 11th International Semantic Web Conference (ISWC'12)
- PC member of the 20th European Conference on Artificial Intelligence (ECAI'12)
- PC member of the Twenty-Sixth Conference on Artificial Intelligence (AAAI'12)
- PC member of the Fifth International Conference on Scalable Uncertainty Management(SUM'12)
- PC member of the 9th Extended Semantic Web Conference (ESWC'12)
- PC member of the Twenty-second International Joint Conference on Artificial Intelligence (IJCAI'11)
- PC member of the Twenty-Fifth Conference on Artificial Intelligence (AAAI'11)
- PC member of the 10th International Semantic Web Conference (ISWC'11)
- PC member of the 11th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU'11)
- PC member of the 8th Extended Semantic Web Conference (ESWC'11)
- PC member of the Fifth International Conference on Scalable Uncertainty Management(SUM'11)
- PC member of the Doctoral Consortium of the Twelfth International Conference on the Principles of Knowledge Representation and Reasoning (KR'10)
- PC member of the 9th International Semantic Web Conference (ISWC'10)
- PC member of the 8th International Semantic Web Conference (ISWC'09)
- PC member of AAAI Symposium on Social Semantic Web: Where Web 2.0 Meets Web 3.0 (AAAI-SSS'09)
- PC member of Second International Conference on Web Reasoning and Rule Systems (RR'08)
- PC member of ASWC Workshop on New forms of reasoning for the Semantic Web: scalable, tolerant and dynamic (NEFORS'08)
- PC member of the 12th International Workshop on Non-Monotonic Reasoning: Special Session on Actions and Belief Change (NMR'08)

### **Journal Reviewer**

- Reviewer of IEEE Transactions on Systems, Man, and Cybernetics
- Reviewer of IEEE Transactions on Fuzzy Systems
- Reviewer of Artificial Intelligence Journal
- Reviewer of Journal of Logic and Computation
- Reviewer of International Journal of Information Science
- Reviewer of International Journal of Knowledge and Information Systems
- Reviewer of International Journal of Uncertainty, Fuzziness and Knowledge-Based

## Systems

- Reviewer of International Journal of Approximate Reasoning
- Reviewer of Fuzzy Sets and Systems

## External Conference Reviewer

- Reviewer of Twenty-First International Joint Conference on Artificial Intelligence (IJCAI'09)
- Reviewer of the 7th International Semantic Web Conference (ISWC'08)
- Reviewer of the 11th International Conference on Principles of Knowledge Representation and Reasoning (KR'08)
- Reviewer of the 18th European Conference on Artificial Intelligence (ECAI'08)
- Reviewer of the 17th International World Wide Web Conference (WWW'08)
- Reviewer of the 5th European Semantic Web Conference (ESWC'08)
- Reviewer of the 6th International Semantic Web Conference, 2nd Asian Semantic Web Conference (ISWC/ASWC'07)
- Reviewer of the 6th International and Interdisciplinary Conference on Modeling and Using Context (CONTEXT'07)
- Reviewer of the 16th International World Wide Web Conference (WWW'07)
- Reviewer of the 4th European Semantic Web Conference (ESWC'07)
- Reviewer of the 17th European Conference on Artificial Intelligence (ECAI'06)
- Reviewer of the 19th Australian Joint Conference on Artificial Intelligence (AI'06)
- Reviewer of the 1st Asian Semantic Web Conference (ASWC'06)
- Reviewer of the 8th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU'05)

## Membership

- ACM Professional Member (since 2011)
- Former member of Association for the Advancement of Artificial Intelligence (AAAI)

## Visiting Experience

- Visiting Professor at Griffith University, 06.2013-07.201. Contact Person : Dr. Kewen Wang
- Visiting Professor at IRIT-University of Toulouse 1 Capitole, 01.2013-02.2013. Contact Person : Dr. Laurent Perrussel
- Visiting Professor at Griffith University, 11.2011-02.2012. Contact Person : Dr. Kewen Wang
- Visiting Researcher at IRIT Lab, Université Paul Sabatier, 09.2007-10.2007. Contact Person : Dr. Andreas Herzig (funded by Knowledge Web project)