Résumé of Dr. Guohui Xiao

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Personal Data

Name	Guohui Xiao
Date of Birth	April 8, 1985
Place of Birth	Heilongjiang, China
Nationality	P. R. China
Gender	Male
Languages	Chinese (native), English (professional, IELTS 8.0, obtained on 13 Jan, 2018), Italian (B1)

Present Appointment

- Assistant Professor at the KRDB Research Centre for Knowledge and Data, Free University of Bozen-Bolzano, Italy.
- Co-founder and Chief Scientist at the Ontopic S.r.l. company, Bolzano, Italy

Education

Doctor of Technical Sciences (Dr.techn.) **Jan 2014**

Vienna University of Technology, Vienna, Austria

Promotion with distinction , 23 Jan 2014

Knowledge Based System (KBS) group, Institute of Information Systems

Adviser: Prof. Thomas Eiter

Thesis: Inline Evaluation of Hybrid Knowledge Bases

External reviewers: Prof. Diego Calvanese, Prof. Sebastian Rudolph

Master of Science **July 2010**

Peking University, Beijing, China

Department of Information Science, School of Mathematical Sciences

Major: Applied Mathematics

Adviser: Prof. Zuoquan Lin

Thesis: Inconsistency Measurement under Multi-Valued Semantics

Bachelor of Science **July 2007**

Peking University, Beijing, China

Department of Information Science, School of Mathematical Sciences

Major: Applied Mathematics

Professional Experience

- March 2019 – now, Co-founder and Chief scientist at the Ontop s.r.l company, Bolzano, Italy
  Responsibility: the Industry 4.0 activity Technical support, Pre-sales, Consulting, Funding acquisition, Interaction with Ontop team at University.
- Dec 2014 – now, Assistant Professor (RTD-a) at Free University of Bozen-Bolzano, Bolzano, Italy.
  Responsibility: Leading the Ontop team for the research activity of ontology-based data access/virtual knowledge graph; Work on the EU FP7 Project Optique; Teaching; Student supervision
- July 2013 – Nov 2014: Research Assistant (Post-doctoral researcher) at Free University of Bozen-Bolzano, Bolzano, Italy
  Responsibility: research on ontology-based data access/virtual knowledge graph/work on the EU FP7 Project Optique
- Dec 2009 – Dec 2012: Research Assistant (Pre-doctoral researcher) at Vienna University of Technology, Vienna, Austria
  Responsibility: work on EU FP7 Project OntoRule and Austrian FWF Project *Reasoning in Hybrid KBs* (FWF-P20840)

Research Projects

- 2019–2021. High quality Open data Publishing and Enrichment (HOPE) - Italian national PRIN (Research Projects of National Relevance) 2017 call. Role: Co Investigator.
- July 2018 – June 2019. High Quality Data Integration with Ontologies (QUADRO) - RTD 2018 call by the Research Committee of unibz. Role: PI.
- July 2017 – July 2019. *Ontology-based analysis of temporal and streaming data (OBAST)*, Funded by Research Committee of Free University of Bolzano, RTD call 2017. Role: PI.
- July 2017 – Nov 2019. *Ontology-based Data Access for NoSQL database (OBDAM)* IN2045. Funded by Research Committee of Free University of Bolzano. Role: PI.
- Nov 2012 – Oct 2016. *Scalable End-user Access to Big Data (Optique)* (FP7-231875) Funded by EU FP 7 program. Role: team leader.
- Jan 2012 –Dec 2012. Austrian FWF Project *Reasoning in Hybrid Knowledge* Bases (FWF-P20840). Role: research assistant.
- Dec 2009 –Dec 2011. EU FP7 Project *Ontologies meet Business Rules* (ONTORULE, FP7-231875). Role: research assistant.

Tutorials and Courses at Scientific Events

- 20 Nov, 2018. *Novel Developments in Ontology-Based Data Access and Integration (NOBDI).* Diego Calvanese, Benjamin Cogrel and Guohui Xiao. Full day tutorial at the 17th International Conference of the Italian Association for Artificial Intelligence (AIxIA 2018). Trento, Italy.
- 26 Oct, 2018. *Semantic Technologies for Data Access and Integration.* Diego Calvanese and Guohui Xiao. Full day tutorial at the 27th ACM International Conference on Information and Knowledge Management (CIKM 2018). Torino, Italy.
- 14 July, 2018. *Ontology-based Data Access: Theory and Practice*, IJCAI-ECAI 2018, Stockholm, Sweden.
- 26 Oct, 2017. *Knowledge Graph Virtualization: Ontology-based data access, theory and application* at the China Conference on Knowledge Graph and Semantic Computing (CCKS 2017), Chengdu, China.
- 19 Nov, 2016. *Mapping Management and Expressive Ontologies in Ontology-Based Data Access.* Full day tutorial at the 20th Int. Conf. on Knowledge Engineering and Knowledge Management (EKAW 2016), Bologna, Italy.
- 12 Feb, 2016. *Ontop: Answering SPARQL Queries over Relational Databases.* Tutorial at Stanford Center for Biomedical Informatics Research Stanford University.
- 11 Oct, 2015. *Ontology-based Data Access: From Theory to Practice.* Tutorial at The 14th International Semantic Web Conference (ISWC 2015). Bethlehem, Pennsylvania, US.
- 10 Aug, 2014: *Ontology-based data access – Theory and Practice.* Tutorial at Summer School of the 8th Chinese Semantic Web Symposium & Web Science Conference (CSWS2014). Wuhan, China

Industrial Collaborations

- Robert Bosch, Stuttgart, Germany. Collaboration on applying OBDA technology on manufacturing.
- Statoil ASA, Stavanger, Norway. Collaboration on applying OBDA techniques in the oil and gas industry.
- Siemens, Munich Germany. Collaboration on research and deployment of OBDA techniques over temporal and streaming data.
- DNV, Oslo, Norway. Collaboration on applying OBDA techniques in the health domain.
- Datatellers s.r.l, South Tyrol, Italy. Collaboration on visualization of results of OBDA.
- SIRIS Academic, Barcelona, Spain. Collaboration on research and application of ontology-based data integration.

Scientific Activities

- Publicity Co-Chair of *the Bolzano Rules and Artificial INtelligence Summit (BRAIN 2019)* 16-24 September 2019, Bozen-Bolzano, Italy. Brain 2019 brings together, amongst others, the 3rd International Joint Conference on Rules and Reasoning (RuleML+RR 2019), the Reasoning Web Summer School (RW 2019), the 5th Global Conference on Artificial Intelligence (GCAI 2019) and DecisionCAMP 2019.
- Publicity Co-Chair of the 8th Joint International Semantic Technology Conference (JIST 2018), Nov 26-28, Awaji City, Hyogo, Japan.

- PC Co-Chair of the Track of Web Technologies & Data Analytics at the 39th IEEE Computer Society Signature Conference on Computers, Software and Applications (COMPSAC/WEDA), Taichung, Taiwan, July 1-5, 2015.

- Workshop Co-Chair of 5th Joint International Semantic Technology (JIST2015), November 11-13, 2015. Yichang, China

- PC Member of Conferences and Workshops

  - the 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018)
  - AAAI Conference on Artificial Intelligence (AAAI) 2017, 2018
  - International Semantic Web Conference (ISWC) 2019
  - European Semantic Web Conference (ESWC) 2018
  - 10th International Conference on Web Reasoning and Rule Systems (RR 2016)
  - Top-k Shortest Paths in large typed RDF Datasets Challenge @ ESWC 2016
  - COMPSAC Symposium on Web, Big Data & Analytics (WEDA 2016)
  - 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)
  - International Workshop on Description Logics (DL 2015, 2016, 2017, 2018, 2019)
  - 5th Joint International Semantic Technology (JIST2015, 2017)
  - Open Answer Set Programming Competition (ASPCOMP 2013)

- Reviewing for Journals

  - Journal of Knowledge and Information Systems
  - International Journal of Approximate Reasoning
  - Journal of Artifical Intelligence Research
  - Journal of Web Semantics
  - Semantic Web Journal
  - BMC Medical Informatics and Decision Making
  - International Journal of Information Technology & Decision Making (IJITDM)

Honors and Awards

2018	Best paper in he 17th Int. Conf. of the Italian Association for Artificial Intelligence (AIxIA 2018)
	Paper title: A Generalized Framework for Ontology-Based Data Access.
	Authors: Elena Botoeva, Diego Calvanese, Benjamin Cogrel, Julien Corman, Guohui Xiao
2017	Best In-Use Paper in The 16th International Semantic Web Conference (ISWC)
	`https://iswc2017.semanticweb.org/program/awards/`
	Paper title: Semantic Rule-Based Equipment Diagnostic
	Authors: Gulnar Mehdi, Evgeny Kharlamov, Ognjen Savkovic, Guohui Xiao, Elem Guzel Kalayci, Sebastian Brandt, Ian Horrocks, Mikhail Roshchin and Thomas Runkler.
2016	Semantic Web Journal 2016 Outstanding Paper Award
	`http://www.semantic-web-journal.net/blog/semantic-web-journal-awards-2016`
	Paper title: Ontop: Answering SPARQL Queries over Relational Databases.
	Authors: Diego Calvanese, Benjamin Cogrel, Sarah Komla-Ebri, Roman Kontchakov, Davide Lanti, Martin Rezk, Mariano Rodriguez-Muro, Guohui Xiao
2014	PhD Promotion with Distinction
2013	IJCAI Student Travel Award
2008	Role Models for Outstanding Students of Peking University
2008	Tencent Technology Scholarship
2007	Outstanding Graduated Student of Beijing City
2006	Outstanding Student of Peking University
2004 – 2007	Cyrus Tang Scholarship
2003	First place (out of 7900 students) in the Nongkenzongju area (sub-province level) of Heilongjiang province in the National College Entrance Exam

List of Courses Taught

- Feb. 2019 – Jun. 2019 : lecture on *Real-time Big Data Processing* (60 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Feb. 2018 – Jun. 2018 : lecture on *Advanced Internet Technologies* (72 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- July 2017: Intensive lecture on *Semantic Web Technologies* (27 hours, bachelor level) at the school of Software Engineering, Sun Yat-sen University, Guangzhou, China
- Feb. 2017 – Jun. 2017: Lab instructor on *Advanced Internet Technologies* (24 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Feb. 2017 – Jun. 2017: Lab instructor on *Knowledge Representation and Ontologies* (24 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Oct. 2016 – Jan. 2017: Lab instructor on *Semantic Technologies* (24 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Sep 2016: Intensive lecture on *Semantic Web Technologies* (27 hours, bachelor level) at the school of Software Engineering, Sun Yat-sen University, Guangzhou, China
- Feb. 2016 – Jun. 2016: Lab instructor on *Knowledge Representation and Ontologies* (24 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Feb. 2016 – Jun. 2016: Lab instructor on *Data Structure and Algorithms* (24 hours, bachelor level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Oct. 2015 – Jan. 2016: Lab instructor on *Semantic Technologies* (24 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Sep. 2015: Intensive lecture on *Semantic Web Technologies* (27 hours, bachelor level) at the school of Software Engineering, Sun Yat-sen University, Guangzhou, China
- Feb. – Jun. 2015: Lab instructor on *Ontology and Database Systems* (36 hours, master level) at Faculty of Computer Science, Free University of Bozen-Bolzano
- Mar. – Jul. 2009: *Java programming language* (one semester, bachelor level) lecture at the Secondary school of Peking University, Beijing, China

List of Publications

Journal Articles

[J1] Konstantina Bereta, Guohui Xiao, and Manolis Koubarakis. "Ontop-spatial: Ontop of Geospatial Databases". In: *Journal of Web Semantics* (2019). Accepted.

[J2] Elem Güzel Kalaycı, Sebastian Brandt, Diego Calvanese, Vladislav Ryzhikov, Guohui Xiao, and Michael Zakharyaschev. "Ontology-Based Access To Temporal Data With Ontop: A Framework Proposal". In: *International Journal of Applied Mathematics and Computer Science* 29.1 (2019). URL: http://www.ghxiao.org/publications/2019-amcs-ontop-temporal.pdf.

[J3] Davide Lanti, Guohui Xiao, and Diego Calvanese. "VIG: Data Scaling for OBDA Benchmarks". In: *Semantic Web* 10.2 (2019), pp. 413–433. DOI: 10.3233/SW-180336. URL: http://www.semantic-web-journal.net/content/vig-data-scaling-obda-benchmarks-1.

[J4] Guohui Xiao, Linfang Ding, Benjamin Cogrel, and Diego Calvanese. "Virtual Knowledge Graphs: An Overview of Systems and Use Cases". In: *Data Intelligence* 1 (2019), pp. 201–223. DOI: 10.1162/dint_a_00016. URL: http://www.ghxiao.org/publications/2019-dint-vkg-survey.pdf.

[J5] Sebastian Brandt, Elem Güzel Kalaycı, Vladislav Ryzhikov, Guohui Xiao, and Michael Zakharyaschev. "Querying Log Data with Metric Temporal Logic". In: *Journal of Artificial Intelligence Research* 62 (2018), pp. 829–877. URL: http://www.ghxiao.org/publications/2018-jair-mtl.pdf.

[J6] Evgeny Kharlamov, Gulnar Mehdi, Ognjen Savkovic, Guohui Xiao, Elem Güzel Kalayci, and Mikhail Roshchin. "Semantically-Enhanced Rule-Based Diagnostics for Industrial Internet of Things: the SDRL Language and Case Study for Siemens Trains and Turbines". In: *Journal of Web Semantics* (2018). DOI: 10.1016/j.websem.2018.10.004.

[J7] Diego Calvanese, Benjamin Cogrel, Sarah Komla-Ebri, Roman Kontchakov, Davide Lanti, Martin Rezk, Mariano Rodriguez-Muro, and Guohui Xiao. "Ontop: Answering SPARQL Queries over Relational Databases". In: *Semantic Web Journal* 8.3 (2017), pp. 471–487. URL: http://www.semantic-web-journal.net/content/ontop-answering-sparql-queries-over-relational-databases-1.

[J8] Evgeny Kharlamov, Dag Hovland, Martin G. Skjæveland, Dimitris Bilidas, Ernesto Jiménez-Ruiz, Guohui Xiao, Ahmet Soylu, Davide Lanti, Martin Rezk, Dmitriy Zheleznyakov, Martin Giese, Hallstein Lie, Yannis Ioannidis, Yannis Kotidis, Manolis Koubarakis, and Arild Waaler. "Ontology Based Data Access in Statoil". In: *Journal of Web Semantics* 44 (2017), pp. 3–36. URL: http://www.ghxiao.org/publications/2017-jws-statoil.pdf.

[J9] Martin Giese, Ahmet Soylu, Guillermo Vega-Gorgojo, Arild Waaler, Peter Haase, Ernesto Jiménez-Ruiz, Davide Lanti, Martin Rezk, Guohui Xiao, Özgür L. Özçep, and Riccardo Rosati. "Optique – Zooming In on Big Data Access". In: *IEEE Computer* 48.3 (2015), pp. 60–67. URL: http://www.ghxiao.org/publications/2015-computer-optique.pdf.

[J10] Worarat Krathu, Christian Pichler, Guohui Xiao, Julia Neidhardt, Marco Zapletal, Hannes Werthner, and Christian Huemer. "Inter-organizational Success Factors: A Cause and Effect Model". In: *Information Systems and e-Business Management* 13.3 (Aug. 2015), pp. 553–593. URL: http://www.ghxiao.org/publications/2015-iseb.pdf.

[J11] Xiaowang Zhang, Guohui Xiao, Zuoquan Lin, and Jan Van den Bussche. "Inconsistency-tolerant reasoning with OWL DL". In: *International Journal of Approximate Reasoning* 55.2 (2014), pp. 557–584. DOI: 10.1016/j.ijar.2013.09.005. URL: http://www.ghxiao.org/publications/2014-ijar-qc-owl.pdf.

[J12] Yue Ma, Guilin Qi, Guohui Xiao, Pascal Hitzler, and Zuoquan Lin. "Computational Complexity and Anytime Algorithm for Inconsistency Measurement". In: *International Journal of Software and Informatics* 4.1 (2010), pp. 3–21. URL: http://www.ghxiao.org/publications/mqxhl2010-ijsi.pdf.

Conference Papers

[C1] Labinot Bajraktari, Magdalena Ortiz, and Guohui Xiao. "Optimizing Horn-SHIQ Reasoning for OBDA". In: *International Semantic Web Conference (1)*. Accepted. 2019.

[C2] Diego Calvanese, Davide Lanti, Ana Ozaki, Rafael Penaloza, and Guohui Xiao. "Enriching Ontology-based Data Access with Provenance". In: *Proc. of the 28th International Joint Conference on Artificial Intelligence (IJCAI)*. Accepted. 2019. URL: http://www.ghxiao.org/publications/2019-ijcai-provenance.pdf.

[C3] Elena Botoeva, Diego Calvanese, Benjamin Cogrel, Julien Corman, and Guohui Xiao. "A Generalized Framework for Ontology-Based Data Access". In: *AI*IA*. Vol. 11298. Lecture Notes in Computer Science. Springer, 2018, pp. 166–180.

[C4] Elena Botoeva, Diego Calvanese, Benjamin Cogrel, and Guohui Xiao. "Expressivity and Complexity of MongoDB Queries". In: *The 21st International Conference on Database Theory (ICDT 2018)*. 2018. URL: http://www.ghxiao.org/publications/2018-icdt-mongodb.pdf.

[C5] Elem Güzel Kalayci, Guohui Xiao, Vladislav Ryzhikov, Tahir Emre Kalayci, and Diego Calvanese. "Ontop-temporal: A Tool for Ontology-based Query Answering over Temporal Data". In: *CIKM*. ACM, 2018, pp. 1927–1930.

[C6] Evgeny Kharlamov, Gulnar Mehdi, Ognjen Savkovic, Guohui Xiao, Steffen Lamparter, Ian Horrocks, and Arild Waaler. "Towards Simplification of Analytical Workflows With Semantics at Siemens (Extended Abstract)". In: *BigData*. IEEE, 2018, pp. 1951–1954.

[C7] Evgeny Kharlamov, Martin G. Skjæveland, Dag Hovland, Theofilos Mailis, Ernesto Jiménez-Ruiz, Guohui Xiao, Ahmet Soylu, Ian Horrocks, and Arild Waaler. "Finding Data Should be Easier than Finding Oil". In: *BigData*. IEEE, 2018, pp. 1747–1756.

[C8] Guozheng Rao, Bo Zhao, Xiaowang Zhang, Zhiyong Feng, and Guohui Xiao. "PRSPR: An Adaptive Framework for Massive RDF Stream Reasoning". In: *APWeb/WAIM (1)*. Vol. 10987. Lecture Notes in Computer Science. Springer, 2018, pp. 440–448.

[C9] Xiangnan Ren, Olivier Curé, Hubert Naacke, and Guohui Xiao. "BigSR: real-time expressive RDF stream reasoning on modern Big Data platforms". In: *IEEE BigData 2018, Seattle, WA, USA*. 2018.

[C10] Ognjen Savkovic, Evgeny Kharlamov, Martin Ringsquandl, Guohui Xiao, Gulnar Mehdi, Elem Güzel Kalayci, Werner Nutt, and Ian Horrocks. "Semantic Diagnostics of Smart Factories". In: *JIST*. Vol. 11341. Lecture Notes in Computer Science. Springer, 2018, pp. 277–294.

[C11] Guohui Xiao, Diego Calvanese, Roman Kontchakov, Domenico Lembo, Antonella Poggi, Riccardo Rosati, and Michael Zakharyaschev. "Ontology-Based Data Access: A Survey". In: *Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence, IJCAI-18*. International Joint Conferences on Artificial Intelligence Organization, July 2018, pp. 5511–5519. URL: http://www.ghxiao.org/publications/2018-ijcai-obda-survey.pdf.

[C12] Guohui Xiao, Dag Hovland, Dimitris Bilidas, Martin Rezk, Martin Giese, and Diego Calvanese. "Efficient Ontology-Based Data Integration with Canonical IRIs". In: *ESWC*. Vol. 10843. Lecture Notes in Computer Science. Springer, 2018, pp. 697–713. URL: http://www.ghxiao.org/publications/2018-eswc-obdi.pdf.

[C13] Guohui Xiao, Roman Kontchakov, Benjamin Cogrel, Diego Calvanese, and Elena Botoeva. "Efficient Handling of SPARQL Optional for OBDA". In: *ISWC*. 2018, pp. 354–373. URL: http://www.ghxiao.org/publications/2018-iswc-optional.pdf.

[C14] Konstantina Bereta, Guohui Xiao, and Manolis Koubarakis. "Answering GeoSPARQL queries over relational data". In: *FOSS4G-EU - Free and Open Source Software for Geospatial (academic track)*. 2017. URL: http://www.ghxiao.org/publications/2017-foss4g-e-ontop-spatial.pdf.

[C15] Sebastian Brandt, Elem Güzel Kalayci, Roman Kontchakov, Vladislav Ryzhikov, Guohui Xiao, and Michael Zakharyaschev. "Ontology-Based Data Access with a Horn Fragment of Metric Temporal Logic". In: *AAAI*. AAAI Press, 2017, pp. 1070–1076. URL: http://www.ghxiao.org/publications/2017-aaai-datalogmtl.pdf.

[C16] Guoqian Jiang, Eric Prud'Hommeaux, Guohui Xiao, and Harold R. Solbrig. "Developing A Semantic Web-based Framework for Executing the Clinical Quality Language Using FHIR". In: *SWAT4HCLS*. 2017.

[C17] Guoqian Jiang, Guohui Xiao, Richard C. Kiefer, Eric Prod'hommeaux, and Harold R. Solbrig. "Building an FHIR Ontology based Data Access Framework with the OHDSI Data Repositories". In: *AMIA, American Medical Informatics Association Annual Symposium*. 2017. URL: http://www.ghxiao.org/publications/2017-aiam-obda-fhir-ohdsi.pdf.

[C18] Evgeny Kharlamov, Ognjen Savkovic, Guohui Xiao, Rafael Peñaloza, Gulnar Mehdi, Mikhail Roshchin, and Ian Horrocks. "Semantic Rules for Machine Diagnostics: Execution and Management". In: *CIKM*. ACM, 2017, pp. 2131–2134.

[C19] Davide Lanti, Guohui Xiao, and Diego Calvanese. "Cost-Driven Ontology-Based Data Access". In: *International Semantic Web Conference (1)*. Vol. 10587. LNCS. Springer, 2017, pp. 452–470. DOI: 10.1007/978-3-319-68288-4_27. URL: https://doi.org/10.1007/978-3-319-68288-4_27.

[C20] Gulnar Mehdi, Evgeny Kharlamov, Ognjen Savkovic, Guohui Xiao, Elem Güzel Kalayci, Sebastian Brandt, Ian Horrocks, Mikhail Roshchin, and Thomas A. Runkler. "Semantic Rule-Based Equipment Diagnostics". In: *International Semantic Web Conference (2)*. Vol. 10588. LNCS. Springer, 2017, pp. 314–333.

[C21] Gulnar Mehdi, Evgeny Kharlamov, Ognjen Savkovic, Guohui Xiao, Elem Güzel Kalayci, Sebastian Brandt, Ian Horrocks, Mikhail Roshchin, and Thomas A. Runkler. "SemDia: Semantic Rule-Based Equipment Diagnostics Tool". In: *CIKM*. ACM, 2017, pp. 2507–2510.

[C22] Elena Botoeva, Diego Calvanese, Valerio Santarelli, Domenico F. Savo, Alessandro Solimando, and Guohui Xiao. "Beyond OWL 2 QL in OBDA: Rewritings and Approximations". In: *AAAI*. AAAI Press, 2016, pp. 921–928. URL: http://www.ghxiao.org/publications/2016-aaai-ontoprox.pdf.

[C23] Stefan Brüggemann, Konstantina Bereta, Guohui Xiao, and Manolis Koubarakis. "Ontology-based data access for Maritime Security". In: *Proc. of ESWC*. 2016. URL: http://www.ghxiao.org/publications/2016-eswc-maritime.pdf.

[C24] Diego Calvanese, Elem Güzel Kalayci, Vladislav Ryzhikov, and Guohui Xiao. "Towards Practical OBDA with Temporal Ontologies - (Position Paper)". In: *RR*. Vol. 9898. LNCS. Springer, 2016, pp. 18–24.

[C25] Linfang Ding, Jukka M. Krisp, Liqiu Meng, Guohui Xiao, and Andreas Keler. "Visual exploration of multivariate movement events in space-time cube". In: *Proc. of AGILE*. 2016.

[C26] Dag Hovland, Davide Lanti, Martin Rezk, and Guohui Xiao. "OBDA Constraints for Effective Query Answering". In: *RuleML*. Vol. 9718. Lecture Notes in Computer Science. Springer, 2016, pp. 269–286.

[C27] Davide Lanti, Guohui Xiao, and Diego Calvanese. "An Evaluation of VIG with the BSBM Benchmark". In: *International Semantic Web Conference (Posters & Demos)*. Vol. 1690. CEUR Workshop Proceedings. CEUR-WS.org, 2016.

[C28] Diego Calvanese, Benjamin Cogrel, Sarah Komla-Ebri, Davide Lanti, Martin Rezk, and Guohui Xiao. "How to Stay Ontop of Your Data: Databases, Ontologies and More". In: *ESWC Poster and Demo track*. 2015. URL: http://www.ghxiao.org/publications/2015-eswc-demo.pdf.

[C29] Thomas Eiter, Jeff Z. Pan, Patrik Schneider, Mantas Simkus, and Guohui Xiao. "A Rule-based Framework for Creating Instance Data from OpenStreetMap". In: *Web Reasoning and Rule Systems - 9th International Conference, RR 2015, Berlin, Germany, August 4-5, 2015, Proceedings*. 2015. URL: http://www.ghxiao.org/publications/2015-rr-osm.pdf.

[C30] Evgeny Kharlamov, Dag Hovland, Ernesto Jiménez-Ruiz, Davide Lanti, Hallstein Lie, Christoph Pinkel, Martin Rezk, Martin G. Skjæveland, Evgenij Thorstensen, Guohui Xiao, Dmitriy Zheleznyakov, and Ian Horrocks. "Ontology Based Access to Exploration Data at Statoil". In: *International Semantic Web Conference (2)*. Vol. 9367. LNCS. Springer, 2015, pp. 93–112.

[C31] Davide Lanti, Martin Rezk, Guohui Xiao, and Diego Calvanese. "The NPD Benchmark: Reality Check for OBDA Systems". In: *Proc. of the 18th Int. Conf. on Extending Database Technology (EDBT 2015)*. ACM Press, 2015. URL: http://www.ghxiao.org/publications/2015-edbt-npd.pdf.

[C32] Timea Bagosi, Diego Calvanese, Josef Hardi, Sarah Komla-Ebri, Davide Lanti, Martin Rezk, Mariano Rodriguez-Muro, Mindaugas Slusnys, and Guohui Xiao. "The Ontop Framework for Ontology Based Data Access". In: *Proc. of the 8th Chinese Semantic Web Symposium & Web Science Conference (Posters and Demos)*. Wuhan, China, Aug. 2014. URL: http://www.ghxiao.org/publications/2014-csws-ontop.pdf.

[C33] Roman Kontchakov, Martin Rezk, Mariano Rodriguez-Muro, Guohui Xiao, and Michael Zakharyaschev. "Answering SPARQL Queries over Databases under OWL 2 QL Entailment Regime". In: *Proc. of International Semantic Web Conference (ISWC 2014)*. LNCS. Springer, 2014. URL: http://www.ghxiao.org/publications/2014-iswc-sparql-ql-full.pdf.

[C34] Guohui Xiao, Martin Rezk, Mariano Rodriguez-Muro, and Diego Calvanese. "Rules and Ontology Based Data Access". In: *Proc. 8th International Conference on Web Reasoning and Rule Systems (RR 2014)*. Ed. by Marie-Laure Mugnier and Roman Kontchakov. LNCS. Springer, 2014. URL: http://www.ghxiao.org/publications/2014-rr-swrl-obda.pdf.

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