

## Curriculum Vitae

### Personal Data

Birthdate: March 29, 1982  
Birthplace: Meissen, Saxony, Germany  
Nationality: German  
Family status: married, 2 children



### Scientific Career

since 2015 Professor (W3) of Data and Software Engineering at the University of Bonn and Fraunhofer IAIS  
2013-2015 Head of AKSW Research Group, University of Leipzig ( $\approx$  40 researchers)  
2011-2012 Research visitor, University of Oxford  
2010-2016 Leader of "Machine Learning and Ontology Engineering" group, University of Leipzig ( $\approx$  10 reseachers)

### Scientific Education

2010 PhD awarded, topic: Learning OWL Class Expressions, grade "summa cum laude"  
2006-2010 PhD student at University of Leipzig  
2001-2006 Study of Computer Science at TU Dresden – Diploma with grade 1.1 (best: 1.0, worst: 5.0)  
2005-2006 Erasmus exchange student at University of Bristol (UK), 4 master courses (each with grade "A") in Machine Learning  
2000 Abitur, grade 1.2  
1998-2000 Werner-Heisenberg-Gymnasium Riesa with extended mathematical and scientific education  
1992-1998 St.-Afra-Gymnasium Meissen

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### *Short Overview*

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<b>Research Topics</b>	Artificial Intelligence/Machine Learning, Question Answering, Large-scale Data Analytics (Big Data)
Community projects	60+ open source projects 40 000+ software/dataset downloads per month
<b>Publications</b>	≈ 100 in international conferences and journals
Major pub. venues <sup>1</sup>	ISWC, WWW, AAI, JWS, SWJ, ESWC, MLJ, ECAI, JMLR
Citations (per year)	<b>12700</b> (1900 in 2017) according to Google Scholar
H-Index	<b>40</b> (37 for the past 5 years) according to Google Scholar
Best Paper Awards	<b>12</b> (only international venues counted)
<b>Funding</b> acquired	<b>9.6 Mio Euro</b> as (Co-)PI, > 1.0 Mio Euro/year (past 5 years) EU H2020/FP7, DFG, BmBF, BmWI, DAAD, Industry
<b>Teaching</b> experience	10 years and ≈ 30 courses
Main teaching topics	Semantic Web, Knowledge Graph Analysis
PhDs/PostDocs	30+ supervised

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<sup>1</sup>ISWC (International Semantic Web Conference), WWW (World Wide Web Conference), AAI (Association for the Advancement of Artificial Intelligence Conference), ESWC (Extended Semantic Web Conference), JWS (Journal of Web Semantics), SWJ (Semantic Web Journal), MLJ (Machine Learning Journal), JMLR (Journal of Machine Learning Research), ECAI (European Conference on Artificial Intelligence)

## 1 Acquired Funding

The table below lists project acronym, topic area, role in the project acquisition (PI = overall principal investigator, Co-PI = leading the contributions for the own organisation), funding program and acquired funding (limited only to own organisation and actual funding, i.e. 90% funding rate and a budget of 1 Mio Euro will be shown as 900k Euro).

<b>Total Funding as (Co-)PI</b>			<b>9.6 Million Euro</b>
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Funding from Confidential Projects			
PI	–	–	$\approx$ 1 500 000 Euro
<b>Cleopatra</b> (Cross-lingual Event-centric Open Analytics Research Academy)			
Co-PI	H2020	2019–2022	<b>505 576 Euro</b>
<b>MLwin</b> (Maschinelles Lernen mit Wissensgraphen (pending))			
Co-PI	BmBF	2018–2021	<b>506 699 Euro</b>
<b>Simple-ML</b> (Big Data Machine Learning Workflows leicht gemacht (pending))			
Co-PI	BmBF	2018–2021	<b>618 000 Euro</b>
<b>LAMBDA</b> (Learning, Applying, Multiplying Big Data Analytics)			
Co-PI	H2020	2018–2021	<b>388 500 Euro</b>
<b>Bio2Vec</b> (Smart Analytics Infrastructure for the Life Sciences)			
Co-PI	CRG	2018–2020	<b>80 000 Euro</b>
<b>SOLIDE</b> (Sprachgesteuerte, kontextuelle Lagebildinformation)			
Co-PI	BmBF	2017–2020	<b>160 000 Euro</b>
<b>QROWD</b> (Crowdsourcing Big Data)			
Co-PI	EU H2020	2016–2019	<b>753 250 Euro</b>
<b>SLIPO</b> (Geospatial Analytics)			
Co-PI	EU H2020	2016–2019	<b>833 500 Euro</b>
<b>Domain Specific Languages</b>			
PI	University of Bonn	2016–2018	<b>70 000 Euro</b>
<b>Cognitive Robotics</b>			
PI	University of Bonn	2016–2018	<b>70 000 Euro</b>
<b>Machine Learning for Certain Theoretical CS Problems</b>			
PI	University of Bonn	2016–2018	<b>140 000 Euro</b>
<b>Smoothed Analysis of ML Algorithms for Knowledge Graphs</b>			
PI	University of Bonn	2016–2018	<b>70 000 Euro</b>
<b>Tensor Factorisation and Visualization for Knowledge Graphs</b>			

PI	University of Bonn	2016–2018	<b>140 000 Euro</b>
<b>GEISER</b> (Geospatial Analytics)			
Co-PI	BmWi	2016–2019	<b>592 920 Euro</b>
<b>HOBBIT</b> (Big Data Benchmarking)			
Co-PI	EU H2020	2015–2018	<b>529 375 Euro</b>
<b>Big Data Europe</b> (Big Data for European Societal Challenges)			
Co-PI	EU H2020	2015–2018	<b>612 500 Euro</b>
<b>DGF Event Support Grant for Semantics 2014</b>			
PI	DFG	2015–2018	<b>20 000 Euro</b>
<b>GeoKnow</b> - Project Enlargement of GeoKnow			
PI	EU H2020	2012–2018	<b>70 000 Euro</b>
<b>GOLD</b> - Generierung von Ontologien aus Linked Data			
PI	DFG	2013–2014	<b>109 200 Euro</b>
<b>Diachron</b> - Managing the Evolution and Preservation of the Data Web			
Co-PI	EU FP7	2013–2016	<b>531 300 Euro</b>
<b>GeoKnow</b> - Making the Web an Exploratory Place for Geospatial Data			
PI	EU FP7	2012–2015	<b>871 600 Euro</b>
<b>LinkingLOD</b> - Interlinking Knowledge Bases			
Contributor	DFG	2012–2014	<b>89 400 Euro</b>
<b>LOD2</b> - Creating Knowledge out of Interlinked Data			
Major contributor	EU FP7	2010–2014	<b>1 333 900 Euro</b>
<b>LATC</b> - Helping You to Publish and Consume Linked Data			
PI	EU FP7	2010–2012	<b>198 500 Euro</b>
PhD Grant Diego Esteves			
PI	Science without Borders	2014–2017	<b>54 000 Euro</b>
PhD Grant Mohamed Sherif			
PI	DAAD	2012–2015	<b>61 000 Euro</b>
PhD Grant Mofeed Hassan			
PI	DAAD	2012–2015	<b>61 000 Euro</b>
PhD Grant Amrapali Zaveri			
PI	DAAD	2011–2014	<b>48 000 Euro</b>
PhD Grant Mohamed Morsey			
PI	DAAD	2010–2013	<b>61 000 Euro</b>

Abbreviations:

- ▷ PI = Principal Investigator (overall project leader)
- ▷ EU = European Union
- ▷ DFG = Deutsche Forschungsgemeinschaft (German Research Foundation)
- ▷ BMWi = German Federal Ministry for Economic Affairs and Energy
- ▷ IP = integrated project
- ▷ STREP = Small and medium-scale focused research project
- ▷ SA = support action.

## 2 Awards

### 2.1 International Paper Awards

- ▷ Semantic Web Science Association (SWSA) 10 Ten-Year Award (2017) for “DBpedia: A Nucleus for a Web of Open Data” with S. Auer, C. Bizer, G. Kobilarov, R. Cyganiak, Z. Ives
- ▷ International Semantic Web Conference (2017), Best Demo Award for “The Tale of SANSA Spark” with I. Ermilov, G. Sejdiu, L. Bühmann, P. Westphal, C. Stadler, S. Bin, N. Chakraborty, H. Petzka, M. Saleem, A. Ngonga Ngomo, H. Jabeen
- ▷ International Semantic Web Conference (2016), Best Resource Paper Award for “LODStats: The Data Web Census Dataset” with I. Ermilov, M. Martin and S. Auer
- ▷ Semantic Web Journal Outstanding (Best Paper of the Year) Award (2014) for “DBpedia - A Large-scale, Multilingual Knowledge Base Extracted from Wikipedia” with R. Isele, M. Jakob, A. Jentzsch, D. Kontokostas, P. Mendes, S. Hellmann, M. Morsey, P. van Kleef, S. Auer, C. Bizer
- ▷ Extended Semantic Web Conference (2014) 7-Years Most Influential Paper Award for “What have Innsbruck and Leipzig in common? Extracting Semantic from Wiki Content” with S. Auer
- ▷ Extended Semantic Web Conference (2014) Best Student Paper Award for “Hybrid Acquisition of Temporal Scopes for RDF Data” with A. Rula, M. Palmonari, A. Ngonga, D. Gerber, L. Bühmann
- ▷ WASABI (2014) Best Workshop Paper Award and Extended Semantic Web Conference “Best of Workshops” Award for “CROCUS: Cluster-based ontology data cleansing” with D. Cherix, R. Usbeck, A. Both

- ▷ Outstanding Paper Award Winner at the Literati Network Awards for Excellence (2013) for "DBpedia and the Live Extraction of Structured Data from Wikipedia" with M. Morsey, S. Auer, C. Stadler, S. Hellmann
- ▷ KESW Best System Description Paper at the Knowledge Engineering and Semantic Web Conference (2013) for "Linked Open Data Statistics: Collection and Exploitation" with I. Ermilov, M. Martin, S. Auer
- ▷ International Semantic Web Conference Best Research Paper Award (2011) for "DBpedia SPARQL Benchmark" with M. Morsey, S. Auer and A.-C. Ngonga Ngomo
- ▷ Journal of Web Semantics Most Cited Paper (2006-2010) Award for "DBpedia - A Crystallization Point for the Web of Data" with C. Bizer, G. Kobilarov, S. Auer, C. Becker, R. Cyganiak, S. Hellmann
- ▷ Best Student Paper Award at the International Conference on Inductive Logic Programming (ILP) 2007 for "A Refinement Operator Based Learning Algorithm for the  $\mathcal{ALC}$  Description Logic" and "Foundations of Refinement Operators for Description Logics" (\$1500 price) with P. Hitzler

## **2.2 Other Awards and Nominations**

- ▷ International Semantic Web Conference (2017) Best Student Resource Paper Award Nomination for "LC-QuAD: A Corpus for Complex Question Answering over Knowledge Graphs" November 2017 with P. Trivedi, G. Maheshwari, M. Dubey
- ▷ Fraunhofer IAIS Paper of the Month Award for "LC-QuAD: A Corpus for Complex Question Answering over Knowledge Graphs" November 2017 with P. Trivedi, G. Maheshwari, M. Dubey
- ▷ Best Paper at CSCUBS 2017 student conference for "Dialogue Response Generation using Neural Networks with Attention and Background Knowledge" with S. Kosovan, A. Fischer
- ▷ Fraunhofer IAIS Paper of the Month Award for "AskNow: A Framework for Natural Language Query Formalization in SPARQL" March 2017 with M. Dubey, S. Dasgupta, A. Sharma, K. Höffner
- ▷ Runner Up for Best Paper Award at ISCS (International Conference on Semantic Computing) 2017 for "Torpedo: Improving the State-of-the-Art RDF Dataset Slicing" with E. Marx, S. Shekarpour, T. Soru, A. Brasoveanu, M. Saleem, C. Baron, A. Weichselbraun, A. Ngonga Ngomo, S. Auer
- ▷ The META Seal of Recognition 2015 for DBpedia (see <http://www.meta-net.eu/meta-seal>)

- ▷ Runner up in the ISWC 2009 Semantic Web challenge for LinkedGeoData (with S. Auer and C. Stadler)
- ▷ DBpedia selected by ReadWriteWeb as top 10 Semantic Web product 2009
- ▷ Nomination for the 2008 award of the Andrew W. Mellon foundation for DBpedia
- ▷ Many prizes in national math olympics on regional, state and country level 1992-2000

### 3 Top 10 Publications

This list is a subjective assessment of the best publications in terms of impact and quality. See <https://scholar.google.de/citations?hl=de&user=sEaQ5rgAAAAJ> for a list ordered only by citations and other CV sections for a full publication list and the list of all awards.

- ▷ DBpedia - A large-scale, multilingual knowledge base extracted from Wikipedia, *Jens Lehmann et. al.*, , Semantic Web Journal, 6(2):167–195, 2015, **SWJ Outstanding Paper Award 2014, 1084 citations**
- ▷ Concept learning in description logics using refinement operators, *J. Lehmann and P. Hitzler*, Machine Learning, 78:203–250, 2010, **Based on two ILP Best Paper Awards, 153 citations**
- ▷ DBpedia: A nucleus for a web of open data, *S. Auer, C. Bizer, G. Kobilarov, J. Lehmann, R. Cyganiak, Z. Ives*, International Semantic Web Conference 2008, 722-735, **ISWC 10 Year Best Paper Award, 3145 citations**
- ▷ Template-based question answering over RDF data, *C. Unger, L. Bühmann, J. Lehmann, A. Ngonga-Ngomo, D. Gerber, P. Cimiano*, World Wide Web Conference 2012, 639-648, **330 citations**
- ▷ DBpedia - A crystallization point for the web of data, *J. Lehmann et. al. (shared first author)*, Journal of Web Semantics, 7(3):154–165, 2009, **Journal of Web Semantics 2006-2010 Award, 2026 citations**
- ▷ DL-Learner: Learning concepts in description logics, *J. Lehmann*, Journal of Machine Learning Research, 10:2639–2642, 2009, **169 citations**
- ▷ LinkedGeoData: A Core for a Web of Spatial Open Data, *C. Stadler, J. Lehmann, K. Höffner, S. Auer*, Semantic Web Journal 3(4):333–354, 2012, **258 citations**

- ▷ What have Innsbruck and Leipzig in Common? Extracting Semantics from Wiki Content, *S. Auer, J. Lehmann*, European Semantic Web Conference 2007, 503-517, **ESWC 7-Year Most Influential Paper Award, 297 citations**
- ▷ DBpedia SPARQL benchmark – performance assessment with real queries on real data, *M. Morsey, J. Lehmann, S. Auer, and A. Ngonga Ngomo*, International Semantic Web Conference 2011, **ISWC Best Paper Award, 235 citations**
- ▷ Neural network-based question answering over knowledge graphs on word and character level, *D. Lukovnikov, A. Fischer, J. Lehmann, S. Auer*, World Wide Web Conference 2017, 1211-1220, **recently published, 23 citations**

## 4 List of Publications

Criterion	Value
citation count	12700
max. citations per year	1900
h-index	40
i10-index	81
#publications	181
#publications in conferences or journals	118
#publications in top conferences or journals	50
#first author publications	34
#first author publications in conferences or journals	19
#first author publications in top conferences or journals	10
#supervised student first author publications	77
#supervised student first author pub. in conferences or journals	53
#supervised student first author pub. in top conferences or journals	17
#international best paper awards	12

The table shows publication statistics with citations according to Google Scholar<sup>1</sup>. The following venues were counted as top conferences and journals: Machine Learning Journal, Journal of Machine Learning Research, Journal of Web Semantics, Semantic Web Journal, International Semantic Web Conference, AAAI Conference, World Wide Web Conference. Supervised student publications are those publications in which one of my PhD, master or bachelor students is first author, supervised by me and I am one of the other authors.

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<sup>1</sup><http://scholar.google.com/citations?user=sEaQ5rgAAAAJ>



## 4.1 Books

- [1] Jens Lehmann. *Learning OWL Class Expressions*, volume 6 of *Studies on the Semantic Web*. AKA Heidelberg, 2010. ISBN 978-3-89838-336-3.2010.

## 4.2 Edited Books

- [2] Jens Lehmann and Johanna Völker, editors. *Perspectives On Ontology Learning*, volume 18. AKA Heidelberg, 2014. ISBN 978-1-61499-378-0.

## 4.3 Journal Publications

- [3] Jens Lehmann, Sebastian Bader, and Pascal Hitzler. Extracting reduced logic programs from artificial neural networks. *Applied Intelligence*, 3:249–266, 2008.
- [4] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Learning of OWL class descriptions on very large knowledge bases. *International Journal On Semantic Web and Information Systems*, 5(2):25–48, 2009.
- [5] Jens Lehmann. DL-learner: Learning concepts in description logics. *Journal of Machine Learning Research*, 10:2639–2642, 2009.
- [6] Jens Lehmann, Chris Bizer, Georgi Kobilarov, Sören Auer, Christian Becker, Richard Cyganiak, and Sebastian Hellmann. DBpedia - a crystallization point for the web of data. *Journal of Web Semantics*, 7(3):154–165, 2009. Journal of Web Semantics Award (Most Cited Article 2006-2010).
- [7] Sören Auer and Jens Lehmann. Making the web a data washing machine - creating knowledge out of interlinked data. *Semantic Web Journal*, 1(1-2):97–104, 2010.
- [8] Jens Lehmann and Pascal Hitzler. Concept learning in description logics using refinement operators. *Machine Learning*, 78:203–250, 2010.
- [9] Jens Lehmann, Sören Auer, Lorenz Bühmann, and Sebastian Tramp (geb. Dietzold). Class expression learning for ontology engineering. *Journal of Web Semantics*, 9(1):71–81, 2011.
- [10] Mohamed Morsey, Jens Lehmann, Sören Auer, Claus Stadler, and Sebastian Hellmann. DBpedia and the live extraction of structured data from wikipedia. *Program: electronic library and information systems*, 46(2):157–181, 2012. Outstanding Paper Award Winner at the Literati Network Awards for Excellence.
- [11] Claus Stadler, Jens Lehmann, Konrad Höffner, and Sören Auer. LinkedGeoData: A core for a web of spatial open data. *Semantic Web Journal*, 3(4):333–354, 2012.

- [12] Sören Auer, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, Claus Stadler, and Jörg Unbehauen. Extraktion, mapping und verlinkung von daten im web. *Datenbank-Spektrum*, 13:77–87, 2013.
- [13] Jens Lehmann, Konrad Höffner, Sandra Präter, Stephanie Lehmann, Axel-Cyrille Ngonga Ngomo, Alejandra Garcia-Rojas, and Spiros Athanasiou. GeoKnow: Geo-anwendungen im daten-web. *gis.Business*, 5:48–51, 2013.
- [14] Amrapali J. Zaveri, Jens Lehmann, Sören Auer, Mofeed Hassan, Mohamed Sherif, and Michael Martin. Publishing and interlinking the global health observatory dataset. *Semantic Web Journal*, 4(3):315–322, 2013.
- [15] Spiros Athanasiou, Daniel Hladky, Giorgos Giannopoulos, Alejandra Garcia-Rojas, and Jens Lehmann. GeoKnow: Making the web an exploratory place for geospatial knowledge. *European Research Consortium in Informatics and Mathematics News*, 96:12–13, 2014.
- [16] Christian Dirschl, Katja Eck, and Jens Lehmann. Supporting the data lifecycle at a global publisher using the linked data stack. *European Research Consortium in Informatics and Mathematics News*, 96:39–40, 2014.
- [17] Michael Martin, Claus Stadler, Philipp Frischmuth, and Jens Lehmann. Increasing the financial transparency of european commission project funding. *Semantic Web Journal*, 5(2):157–164, 2014.
- [18] Daniel Gerber, Diego Esteves, Jens Lehmann, Lorenz Bühmann, Ricardo Usbeck, Axel-Cyrille Ngonga Ngomo, and René Speck. Defacto - temporal and multilingual deep fact validation. *Journal of Web Semantics*, pages 85–101, 2015.
- [19] Konrad Höffner, Michael Martin, and Jens Lehmann. Linkedspending: Openspending becomes linked open data. *Semantic Web Journal*, 7(1):95–104, 2015.
- [20] Jens Lehmann and Oscar Corcho. 2nd special issue on linked dataset descriptions. *Semantic Web Journal*, 6(2):103–104, 2015.
- [21] Jens Lehmann, Robert Isele, Max Jakob, Anja Jentzsch, Dimitris Kontokostas, Pablo Mendes, Sebastian Hellmann, Mohamed Morsey, Patrick van Kleef, Sören Auer, and Chris Bizer. DBpedia - a large-scale, multilingual knowledge base extracted from wikipedia. *Semantic Web Journal*, 6(2):167–195, 2015. Outstanding Paper Award (Best 2014 SWJ Paper).
- [22] Lorenz Bühmann, Jens Lehmann, and Patrick Westphal. DL-learner—a framework for inductive learning on the semantic web. *Journal of Web Semantics*, 39:15 – 24, 2016.

- [23] Konrad Höffner, Sebastian Walter, Edgard Marx, Ricardo Usbeck, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Survey on challenges of question answering in the semantic web. *Semantic Web Journal*, 2016.
- [24] Amrapali J. Zaveri, Anisa Rula, Andrea Maurino, Ricardo Pietrobon, Jens Lehmann, and Sören Auer. Quality assessment for linked data: A survey. *Semantic Web Journal*, 7(1):63–93, 2016.
- [25] Maribel Acosta, Amrapali J. Zaveri, Elena Simperl, Dimitris Kontokostas, Fabian Flöck, and Jens Lehmann. Detecting linked data quality issues via crowdsourcing: A DBpedia study. *Semantic Web Journal*, 2017.
- [26] Ali Ismayilov, Dimitris Kontokostas, Sören Auer, Jens Lehmann, and Sebastian Hellmann. Wikidata through the eyes of DBpedia. *Semantic Web Journal*, pages 1–11, 2017.
- [27] Diego Esteves, Anisa Rula, Aniketh Janardhan Reddy, and Jens Lehmann. Towards veracity assessment in rdf knowledge bases: An exploratory analysis. *Journal on Data and Information Quality (JDIQ)*, 9, 2018.
- [28] Patrick Westphal, Lorenz Bühmann, Simon Bin, Hajira Jabeen, and Jens Lehmann. Sml-bench - a benchmarking framework for structured machine learning. *Semantic Web Journal*, 2018.

#### 4.4 Edited Conference Proceedings

- [29] Harald Sack, Agata Filipowska, Jens Lehmann, and Sebastian Hellmann, editors. *Proceedings of 10th International Conference on Semantic Systems, SEMANTiCS, September 4-5, 2014*. ACM, 2014.
- [30] Harald Sack, Agata Filipowska, Jens Lehmann, and Sebastian Hellmann, editors. *Proceedings of the Poster & Demos Track of the 10th International Conference on Semantic Systems, SEMANTiCS, September 4-5, 2014*. CEUR-WS.org, 2014.

#### 4.5 Conference Publications

- [31] Sören Auer and Jens Lehmann. What have innsbruck and leipzig in common? extracting semantic from wiki content. In Enrico Franconi, Michael Kifer, and Wolfgang May, editors, *Proceedings of the 4th European Semantic Web Conference (ESWC)*, volume 4519 of *Lecture Notes in Computer Science*, pages 503–517. Springer, 2007. 7-Years Most Influential Paper Award.
- [32] Jens Lehmann. Hybrid learning of ontology classes. In *Proceedings of the 5th International Conference on Machine Learning and Data Mining (MLDM)*, volume 4571 of *Lecture Notes in Computer Science*, pages 883–898. Springer, 2007.

- [33] Jens Lehmann, Jörg Schüppel, and Sören Auer. Discovering unknown connections - the DBpedia relationship finder. In *Proceedings of the 1st SABRE Conference on Social Semantic Web (CSSW)*, volume 113 of *Lecture Notes in Informatics*, pages 99–110, 2007.
- [34] Thomas Riechert, Kim Lauenroth, and Jens Lehmann. SwORE - softwiki ontology for requirements engineering. In Sören Auer, Chris Bizer, Claudia Müller, and Anna Zhdanova, editors, *Proceedings of the 1st Conference on Social Semantic Web*, volume P-113 of *Lecture Notes in Informatics*, 2007.
- [35] Thomas Riechert, Kim Lauenroth, Jens Lehmann, and Sören Auer. Towards semantic based requirements engineering. In *Proceedings of the 7th International Conference on Knowledge Management (I-KNOW)*, 2007.
- [36] Sören Auer, Chris Bizer, Georgi Kobilarov, Jens Lehmann, Richard Cyganiak, and Zachary Ives. DBpedia: A nucleus for a web of open data. In *Proceedings of the 6th International Semantic Web Conference (ISWC)*, volume 4825 of *Lecture Notes in Computer Science*, pages 722–735. Springer, 2008. 10 Year Best Paper Award.
- [37] Jens Lehmann and Pascal Hitzler. Foundations of refinement operators for description logics. In Hendrick Blockeel, Jude W. Shavlik, and Prasad Tadepalli, editors, *Proceedings of the 17th International Conference on Inductive Logic Programming (ILP)*, volume 4894 of *Lecture Notes in Computer Science*, pages 161–174. Springer, 2008. Best Student Paper Award (1500 dollar sponsored by the Machine Learning Journal).
- [38] Jens Lehmann and Pascal Hitzler. A refinement operator based learning algorithm for the ALC description logic. In Hendrick Blockeel, Jude W. Shavlik, and Prasad Tadepalli, editors, *Proceedings of the 17th International Conference on Inductive Logic Programming (ILP)*, volume 4894 of *Lecture Notes in Computer Science*, pages 147–160. Springer, 2008. Best Student Paper Award (1500 dollar sponsored by the Machine Learning Journal).
- [39] Sören Auer, Sebastian Tramp (geb. Dietzold), Jens Lehmann, Sebastian Hellmann, and David Aumüller. Triplify - lightweight linked data publication from relational databases. In *Proceedings of the 18th World Wide Web Conference (WWW)*, pages 621–630. ACM, 2009.
- [40] Sören Auer, Jens Lehmann, and Sebastian Hellmann. LinkedGeoData - adding a spatial dimension to the web of data. In *Proc. of 7th International Semantic Web Conference ISWC*, volume 5823 of *Lecture Notes in Computer Science*, pages 731–746. Springer, 2009.

- [41] Philipp Heim, Sebastian Hellmann, Jens Lehmann, Steffen Lohmann, and Timo Stegemann. Relfinder: Revealing relationships in rdf knowledge bases. In *Proceedings of the 3rd International Conference on Semantic and Media Technologies*, volume 5887 of *Lecture Notes in Computer Science*, pages 182–187. Springer, 2009.
- [42] Sebastian Hellmann, Claus Stadler, Jens Lehmann, and Sören Auer. DBpedia live extraction. In *Proceedings of the 8th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE)*, volume 5871 of *Lecture Notes in Computer Science*, page 1209–1223. Springer, 2009.
- [43] Georgi Kobilarov, Chris Bizer, Sören Auer, and Jens Lehmann. DBpedia - a linked data hub and data source for web applications and enterprises. In *Proceedings of Developers Track of 18th International World Wide Web Conference*, 2009.
- [44] Jens Lehmann and Christoph Haase. Ideal downward refinement in the el description logic. In *Proceedings of the 19th International Conference on Inductive Logic Programming*, volume 5989 of *Lecture Notes in Computer Science*, pages 73–87. Springer, 2009.
- [45] Sören Auer, Matthias Weidl, Jens Lehmann, Amrapali J. Zaveri, and Key-Sun Choi. I18n of semantic web applications. In *Proceedings of the 9th International Semantic Web Conference*, volume 6497 of *Lecture Notes in Computer Science*, pages 1–16. Springer, 2010.
- [46] Jens Lehmann and Lorenz Bühmann. ORE - a tool for repairing and enriching knowledge bases. In *Proceedings of the 9th International Semantic Web Conference*, volume 6497 of *Lecture Notes in Computer Science*, pages 177–193. Springer, 2010.
- [47] Josué Iglesias and Jens Lehmann. Towards integrating fuzzy logic capabilities into an ontology-based inductive logic programming framework. In *Proc. of the 11th International Conference on Intelligent Systems Design and Applications ISDA*, pages 1323–1328. IEEE, 2011.
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- [148] Harsh Thakkar, Dharmen Punjani, Jens Lehmann, and Sören Auer. Two for one - querying property graph databases using sparql via gremlinator. In *International Workshop on Graph Data Management Experiences & Systems at SIGMOD / PODS*, 2018.



## 4.8 Poster Publications

- [149] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Learning of OWL class descriptions on very large knowledge bases. In *7th International Semantic Web Conference (ISWC)*, 2008.
- [150] Christophe Guéret, Paul Groth, Claus Stadler, and Jens Lehmann. Linked data quality assessment through network analysis. In *ISWC 2011 Posters and Demos*, 2011.
- [151] Farshad Badie, Tommaso Soru, and Jens Lehmann. A fuzzy knowledge representation model for student performance assessment. In *2014 IEEE 14th International Conference on Advanced Learning Technologies ICALT*, 2014.
- [152] Diego Esteves, Diego Moussallem, Ciro Baron Neto, Jens Lehmann, Claudia Cavalcanti, and Julio Cesar Duarte. Interoperable machine learning metadata using mex. In Serena Villata, Jeff Z. Pan, and Mauro Dragoni, editors, *International Semantic Web Conference (Posters & Demos)*, volume 1486. CEUR-WS.org, 2015.
- [153] Edgard Marx, Tommaso Soru, Diego Esteves, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. An open question answering framework. In *The 14th International Semantic Web Conference, Posters & Demonstrations Track*. CEUR-WS.org, 2015.
- [154] René Speck, Diego Esteves, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Defacto - a multilingual fact validation interface. In Serena Villata, Jeff Z. Pan, and Mauro Dragoni, editors, *14th International Semantic Web Conference (ISWC 2015) Semantic Web Challenge*, 2015.
- [155] Gaurav Maheshwari, Mohnish Dubey, Priyansh Trivedi, and Jens Lehmann. How to revert question answering on knowledge graphs. In *13th International Conference on Semantic Systems (Semantics)*. Springer, 2017.

## 4.9 Demos

- [156] Sören Auer, Sebastian Tramp (geb. Dietzold), Jens Lehmann, and Thomas Riechert. Ontowiki - a tool for social, semantic collaboration. In *Proceedings of the WWW-07 Workshop on Social and Collaborative Construction of Structured Knowledge (CKC)*, 2007.
- [157] Jens Lehmann and Sebastian Knappe. DBpedia navigator. 2008. Semantic Web Challenge.
- [158] Sören Auer and Jens Lehmann. LinkedGeoData - collaboratively created geo-information for the semantic web. 2009. Semantic Web Challenge, ISWC 2009.

- [159] Sebastian Hellmann, Jörg Unbehauen, and Jens Lehmann. Hanne - a holistic application for navigational knowledge engineering. In *Proceedings of ISWC Posters&Demos*, 2010.
- [160] Sebastian Hellmann, Jens Lehmann, Sören Auer, and Marcus Nitzschke. Nif combinator: Combining nlp tool output. Springer, 2012.
- [161] Klaus Lyko, Konrad Höffner, René Speck, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Saim - one step closer to zero-configuration link discovery. In *Proc. of the Extended Semantic Web Conference Posters & Demos*. Springer, 2013.
- [162] Axel-Cyrille Ngonga Ngomo, Lorenz Bühmann, Christina Unger, Jens Lehmann, and Daniel Gerber. Sparql2nl - verbalizing sparql queries. In *Proc. of WWW 2013 Demos*. ACM, 2013.
- [163] Dimitris Kontokostas, Patrick Westphal, Sören Auer, Sebastian Hellmann, Jens Lehmann, and Roland Cornelissen. A test-driven framework for debugging the web of data. In *Proceedings of the 23rd international conference on World Wide Web*. ACM, 2014.
- [164] Andreas Both, Matthias Wauer, Alejandra Garcia-Rojas, Daniel Hladky, and Jens Lehmann. GeoKnow generator workbench – an integrated tool supporting the linked data lifecycle for enterprise usage. In *Proc. of the 11th Conference on Semantic Systems - Posters and Demos*. ACM, 2015.
- [165] Ivan Ermilov, Konrad Höffner, Jens Lehmann, and Dmitry Mouromtsev. kore: Using linked data for openscience information integration. In *SEMANTiCS 2015*, 2015.
- [166] Claus Stadler, Natanael Arndt, Michael Martin, and Jens Lehmann. Rdf editing on the web with rex. 2015.
- [167] Felix Conrads, Jens Lehmann, Muhammad Saleem, and Axel-Cyrille Ngonga Ngomo. Benchmarking rdf storage solutions with iguana. In *Proceedings of 16th International Semantic Web Conference - Poster & Demos*. Springer, 2017.
- [168] Ivan Ermilov, Jens Lehmann, Gezim Sejdiu, Lorenz Bühmann, Patrick Westphal, Claus Stadler, Simon Bin, Nilesh Chakraborty, Henning Petzka, Muhammad Saleem, Axel-Cyrille Ngonga Ngomo, and Hajira Jabeen. The tale of sansa spark. In *Proceedings of 16th International Semantic Web Conference, Poster & Demos*. Springer, 2017. Best Demo Award.
- [169] Yashwant Keswani, Harsh Thakkar, Mohnish Dubey, Jens Lehmann, and Sören Auer. The litmus test: Benchmarking rdf and graph data management systems.

In *Proceedings of 13th International Conference on Semantic Systems - Poster & Demos*, 2017.

- [170] Ben De Meester, Anastasia Dimou, Dimitris Kontokostas, Ruben Verborgh, Jens Lehmann, Erik Mannens, and Sebastian Hellmann. A vocabulary independent generation framework for DBpedia and beyond. In *Proceedings of 16th International Semantic Web Conference - Poster & Demos*. Springer, 2017.

#### 4.10 Book Contributions

- [171] Sören Auer, Jens Lehmann, and Chris Bizer. Semantische mashups auf basis vernetzter daten. In *Social Semantic Web*, volume 2 of *X.media press*, pages 259–286. Springer, 2009.
- [172] Sören Auer, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Introduction to linked data and its lifecycle on the web. In *Reasoning Web*. 2011.
- [173] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Learning of OWL class expressions on very large knowledge bases and its applications. In *Semantic Services, Interoperability and Web Applications: Emerging Concepts*. IGI Global, 2011.
- [174] Sebastian Hellmann, Claus Stadler, and Jens Lehmann. The german DBpedia: A sense repository for linking entities. In *Linked Data in Linguistics*. Springer, 2012.
- [175] Sören Auer, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, and Amrapali J. Zaveri. Introduction to linked data and its lifecycle on the web. In *Reasoning Web*. 2013.
- [176] Sebastian Hellmann, Volha Bryl, Lorenz Bühmann, Milan Dojchinovski, Dimitris Kontokostas, Jens Lehmann, Uroš Milošević, Petar Petrovski, Vojtech Svatek, and Mladen Stanojević. Knowledge base creation, enrichment and repair. In *Linked Open Data—Creating Knowledge Out of Interlinked Data*. 2014.
- [177] Pascal Hitzler, Jens Lehmann, and Axel Polleres. Logics for the semantic web. In *Logic and Computation*, volume 9 of *Handbook of the History of Logic*. Elsevier, 2014.
- [178] Jens Lehmann and Lorenz Bühmann. Linked data reasoning. In *Management und Bewirtschaftung vernetzter Unternehmensdaten mit Semantic Web-Technologien*. Springer, 2014.
- [179] Jens Lehmann, Nicola Fanizzi, Lorenz Bühmann, and Claudia d’Amato. Concept learning. In Jens Lehmann and Johanna Völker, editors, *Perspectives on Ontology Learning*, pages 71–91. AKA Heidelberg, 2014.

- [180] Jens Lehmann and Johanna Völker. An introduction to ontology learning. In Jens Lehmann and Johanna Völker, editors, *Perspectives on Ontology Learning*, pages ix–xvi. AKA Heidelberg, 2014.
- [181] Axel-Cyrille Ngonga Ngomo, Sören Auer, Jens Lehmann, and Amrapali J. Zaveri. Introduction to linked data and its lifecycle on the web. In *Reasoning Web*. 2014.
- [182] Jens Lehmann, Spiros Athanasiou, Andreas Both, Alejandra Garcia-Rojas, Giorgos Giannopoulos, Daniel Hladky, Konrad Höffner, Jon Jay Le Grange, Axel-Cyrille Ngonga Ngomo, and Mohamed Sherif. Managing geospatial linked data in the GeoKnow project. In *The Semantic Web in Earth and Space Science*, Studies on the Semantic Web, pages 51–78. IOS Press, 2015.

#### **4.11 Theses**

- [183] Jens Lehmann. Concept learning in description logics. Master’s thesis, TU Dresden, 2006. Diploma Thesis in Computer Science, supervisors: Dr. habil. Pascal Hitzler, Prof. Steffen Hölldobler.
- [184] Jens Lehmann. *Learning OWL Class Expressions*. PhD thesis, University of Leipzig, 2010. PhD in Computer Science, supervisors: Prof. Klaus-Peter Fähnrich, Dr. Sören Auer.

#### **4.12 Technical Reports**

- [185] Jens Lehmann and Pascal Hitzler. Foundations of refinement operators for description logics. Technical report, Universität Leipzig, 2007. A slightly older, but extended version including proofs of the ILP 2007 article with the same name.
- [186] Jens Lehmann and Pascal Hitzler. A refinement operator based learning algorithm for the ALC description logic. Technical report, Universität Leipzig, 2007. An extended version including proofs of the ILP 2007 article with the same title.
- [187] Jens Lehmann and Christoph Haase. Ideal downward refinement in the el description logic. Technical report, Universität of Leipzig, 2009.
- [188] Axel-Cyrille Ngonga Ngomo, Jens Lehmann, Sören Auer, and Konrad Höffner. Raven – towards zero-configuration link discovery. Technical report, University of Leipzig, 2012.
- [189] Patrick Westphal, Claus Stadler, and Jens Lehmann. Quality assurance of rdb2rdf mappings. Technical report, University of Leipzig, 2014.

- [190] Jens Lehmann, Spiros Athanasiou, Andreas Both, Lorenz Bühmann, Alejandra Garcia-Rojas, Giorgos Giannopoulos, Daniel Hladky, Konrad Höffner, Jon Jay Le Grange, and Axel-Cyrille Ngonga Ngomo. The GeoKnow handbook. Technical report, 2015.

### **4.13 Project Deliverables**

I (co-)authored more than 30 project deliverables.

## **5 Research Community Services**

### **5.1 Journal Editorial Boards**

- ▷ Semantic Web Journal, since 2010
- ▷ Journal of Information Technology Research, since 2008

### **5.2 General Chair**

- ▷ Computer Science Conference for University of Bonn Students (CSCUBS), 2016
- ▷ European Data Forum (EDF), 2015

### **5.3 Program Chair**

- ▷ European Data Forum (EDF), 2014
- ▷ SEMANTiCs - Transfer, Engineering, Community (SEMANTiCs), 2014

### **5.4 Sponsorship Chair**

- ▷ International Semantic Web Conference (ISWC), 2014

### **5.5 Track/Area Chair**

- ▷ Extended Semantic Web Conference (ESWC), 2016
- ▷ Extended Semantic Web Conference (ESWC), 2013
- ▷ Extended Semantic Web Conference (ESWC), 2011

### **5.6 Event Organisation**

- ▷ Indian-Summer School on Linked Data (ISSLOD), 2011
- ▷ Leipziger Semantic Web Tag (LSWT), 2011

### **5.7 Workshop Chair**

- ▷ Linked Data on the Web (LDOW), 2017
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2016
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2015

- ▷ Special session on: Open Data and Geographical Information System applications (ODaGIS), 2015
- ▷ International Workshop on Geospatial Linked Data (GeoLD), 2014
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2014
- ▷ Linked Data Europe (LDE), 2014
- ▷ International Workshop on Crowdsourcing the Semantic Web (CrowdSem), 2013
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2013
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2012

### **5.8 Panel Member**

- ▷ World Wide Web Conference (WWW), 2018
- ▷ Extended Semantic Web Conference (ESWC), 2011

### **5.9 Advisory Boards**

- ▷ Bitkom Working Group Artificial Intelligence (since 2017)
- ▷ Advisory Board Member of the WDAqua Network of Excellence (2016 - 2017)

### **5.10 Research Proposal Reviewing**

- ▷ Reviewer for Österreichische Forschungsförderungsgesellschaft (FFG) 2016
- ▷ Reviewer for Österreichische Forschungsförderungsgesellschaft (FFG) 2015
- ▷ Reviewer for the European Science Foundation (ESF) in the Horizon2020 Program 2015
- ▷ Reviewer for the Netherlands Organisation for Scientific Research (NWO) 2015
- ▷ Reviewer for Österreichische Forschungsförderungsgesellschaft (FFG) 2013

### **5.11 Special Issue Editorial Boards**

- ▷ Semantic Web Journal Special Issue on Machine Learning for Knowledge Base Generation and Population 2016
- ▷ Semantic Web Journal Special Issue on Linked Dataset Descriptions 2013

## **5.12 Programme Committees**

- ▷ Extended Semantic Web Conference (ESWC), 2018
- ▷ Hybrid Question Answering with Structured and Unstructured Knowledge (HQA), 2018
- ▷ International Joint Conference on Artificial Intelligence (IJCAI), 2018
- ▷ Association for the Advancement of Artificial Intelligence Conference (AAAI), 2017
- ▷ Generalizing knowledge: from Machine Learning and Knowledge Representation to the Semantic Web (GenSW), 2017
- ▷ International Conference on Knowledge Capture (K-Cap), 2017
- ▷ Question Answering over Linked Data (QALD), 2017
- ▷ Association for the Advancement of Artificial Intelligence Conference (AAAI), 2016
- ▷ Question Answering over Linked Data (QALD), 2016
- ▷ Top-K Shortest Path in Large Typed RDF Graphs Challenge (Top-K), 2016
- ▷ Association for the Advancement of Artificial Intelligence Conference (AAAI), 2015
- ▷ Extended Semantic Web Conference (ESWC), 2014
- ▷ International Semantic Web Conference (ISWC), 2014
- ▷ International Workshop on NoSQL Databases and Linked Data Applications (NoSQL-Net), 2014
- ▷ Natural Language Interfaces for Web of Data (NLIWoD), 2014
- ▷ ACM Conference on Hypertext and Social Media (Hypertext), 2013
- ▷ Association for the Advancement of Artificial Intelligence Conference (AAAI), 2013
- ▷ International Joint Conference on Artificial Intelligence (IJCAI), 2013
- ▷ International Semantic Web Conference (ISWC), 2013
- ▷ International Workshop on Description Logics (DL), 2013
- ▷ Linked Data on the Web (LDOW), 2013
- ▷ Ontologies and Data in Life Sciences (ODLS), 2013
- ▷ International Conference on Knowledge Capture (K-Cap), 2013
- ▷ Extended Semantic Web Conference (ESWC), 2012
- ▷ GIScience in the Big Data Age 2012 (GiBDA), 2012
- ▷ Interacting with Linked Data (ILD), 2012



- ▷ International Conference on Knowledge Engineering and Knowledge Management (EKAW), 2012
- ▷ International Conference on World Wide Web (WWW), 2012
- ▷ International Semantic Web Conference (ISWC), 2012
- ▷ Linked Data on the Web (LDOW), 2012
- ▷ Studentenkonzferenz Informatik Leipzig (SKIL), 2012
- ▷ Very Large Data Search (VLDS), 2012
- ▷ Extended Semantic Web Conference (ESWC), 2011
- ▷ International Conference on Web Engineering (ICWE), 2011
- ▷ International Joint Conference on Artificial Intelligence (IJCAI), 2011
- ▷ International Semantic Web Conference (ISWC), 2011
- ▷ International Workshop on Inductive Reasoning and Machine Learning for the Semantic Web (IRMLeS), 2011
- ▷ Linked Data on the Web (LDOW), 2011
- ▷ Massive Information Sharing and Integration (MISI), 2011
- ▷ Studentenkonzferenz Informatik Leipzig (SKIL), 2011
- ▷ Extended Semantic Web Conference (ESWC), 2010
- ▷ Studentenkonzferenz Informatik Leipzig (SKIL), 2010
- ▷ Workshop On Linked Spatiotemporal Data (LSTD), 2010
- ▷ Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS), 2010
- ▷ Workshop on Trust and Privacy on the Social and Semantic Web (SPOT), 2010
- ▷ European Semantic Web Conference (ESWC), 2009
- ▷ International Workshop on Web Semantics (WebS), 2009
- ▷ Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS), 2009
- ▷ Workshop on Scripting and Development for the Semantic Web (SFSW), 2009
- ▷ European Semantic Web Conference (ESWC), 2009
- ▷ I-Semantics (IS), 2008
- ▷ International Conference on Semantic Systems (I-Semantics), 2008
- ▷ Workshop on Scripting for the Semantic Web (SFSW), 2008
- ▷ SABRE Conference on Social Semantic Web (CSSW), 2007

### 5.13 Reviewing

The list does not include PC memberships. For journals, I listed the year in which I performed reviews.

- ▷ Machine Learning (MLj), 2017
- ▷ Semantic Web Journal (SWJ), 2017
- ▷ Journal of Machine Learning Research (JMLR), 2016
- ▷ Machine Learning (MLj), 2016
- ▷ Journal of Web Semantics (JWS), 2015
- ▷ Journal of Information Technology Research (JITR), 2014
- ▷ Journal of Machine Learning Research (JMLR), 2014
- ▷ Language Resources and Evaluation Conference (LREC), 2014
- ▷ International Conference on World Wide Web (WWW), 2013
- ▷ Journal of Web Semantics (JWS), 2013
- ▷ Knowledge-Based Systems (KNOSYS), 2013
- ▷ IEEE Intelligent Systems, 2012
- ▷ International Symposium on Rules (RuleML), 2012
- ▷ International Workshop on Description Logics (DL), 2012
- ▷ Journal of Information Technology Research (JITR), 2012
- ▷ Journal of Web Semantics (JWS), 2012
- ▷ Semantic Web Journal (SWJ), 2012
- ▷ IEEE Intelligent Systems, 2011
- ▷ International Conference on Inductive Logic Programming (ILP), 2011
- ▷ International Journal On Semantic Web and Information Systems (IJSWIS), 2011
- ▷ Knowledge-Based Systems (KNOSYS), 2011
- ▷ Semantic Web Journal (SWJ), 2011
- ▷ International Conference on Inductive Logic Programming (ILP), 2010
- ▷ Journal of Web Semantics (JWS), 2010
- ▷ Knowledge-Based Systems (KNOSYS), 2010
- ▷ Semantic Web Journal (SWJ), 2010
- ▷ European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), 2009

- ▷ IEEE International Conference on Semantic Computing (ICSC), 2009
- ▷ International Semantic Web Conference (ISWC), 2009
- ▷ Journal of Information Technology Research (JITR), 2009
- ▷ Journal of Web Semantics (JWS), 2009
- ▷ IEEE International Conference on Web Services (ICWS), 2008
- ▷ International Journal of Metadata, Semantics and Ontologies (IJMSO) (IJMSO), 2008
- ▷ Workshop on Linked Data on the Web (LDOW), 2008
- ▷ European Semantic Web Conference (ESWC), 2007
- ▷ International Joint Conference on Neural Networks (IJCNN), 2007
- ▷ Journal of Web Semantics (JWS), 2007

## 6 Selected Presentations

### 6.1 Invited Talks

- [LA09] Jens Lehmann and Sören Auer. Semantic wikis and the web of data, 2009. Keynote talk at 1st KYOTO EU project workshop.
- [LAS12] Jens Lehmann, Sören Auer, and Claus Stadler. Managing the life-cycle of large scale web datasets, 2012. Keynote talk at the Joint Workshop on Knowledge Evolution and Ontology Dynamics at ISWC 2012.
- [LB11] Jens Lehmann and Lorenz Bühmann. Ontology semantics, repair and enrichment, 2011. Lecture at the Indian Summer School on Linked Data (ISSLOD).
- [LB13] Jens Lehmann and Lorenz Bühmann. The linked data life-cycle, 2013. Invited Lecture Series at the ICCL Summer School 2013.
- [Leh10] Jens Lehmann. Ontology learning, 2010. Invited Talk at Reasoning Web Summer School 2010 in Dresden.
- [Leh14a] Jens Lehmann. GeoKnow and LinkedGeoData, 2014. Keynote at PILOD 2.0 congress in Hilversum.
- [Leh14b] Jens Lehmann. The GeoKnow project, 2014. Invited Talk at the Joint Research Centre (Ispira).
- [Leh14c] Jens Lehmann. Machine learning methods for analysing and linking rdf data, 2014. Keynote at the SUM 2014 conference.
- [Leh16] Jens Lehmann. Wie schlau sind ihre autos wirklich?, 2016. Keynote at Audi, Ingolstadt.
- [Leh17] Jens Lehmann. Question answering over knowledge graphs: State of the art and future perspectives, 2017. Keynote at the 12th Conference on Flexible Query Answering Systems.

### 6.2 Invited Colloquia Talks and Tutorials

- [LA11] Jens Lehmann and Sören Auer. The linked data lifecycle, 2011. Presentation at the chair for Prozessleittechnik.
- [Leh09] Jens Lehmann. Presentation of aksw group and OWL class expressions learning, 2009. Invited Talk at AIFB Karlsruhe.
- [Leh11a] Jens Lehmann. Data web tutorial, 2011. Leipziger Semantic Web Tag.

- [Leh11b] Jens Lehmann. DBpedia overview, 2011. Leipziger Semantic Web Tag.
- [Leh12] Jens Lehmann. Latc datasets in the eu data cloud, 2012. 1st European Data Forum.
- [Leh13] Jens Lehmann. Aksw research projects overview, 2013. Talk at the University of Montpellier (France).
- [Leh14] Jens Lehmann. GeoKnow project overview, 2014. Talk at the Linked Data Europe Workshop in Athens, Greece.
- [Leh17] Jens Lehmann. Question answering for call-centers, 2017. Talk at Call Center Association Workshop in Munich.
- [LS11] Jens Lehmann and Claus Stadler. LinkedGeoData overview, 2011. Leipziger Semantic Web Tag.
- [LS13] Jens Lehmann and Claus Stadler. LinkedGeoData and GeoKnow, 2013. Invited talk at the Information Sciences Institute, University of Southern California.

In addition, many talks were given by me at conferences.

## 7 Teaching

- ▷ Accompanying Master Thesis Seminar, University of Bonn, 2018
- ▷ Accompanying Master Thesis Seminar, University of Bonn, 2017/18
- ▷ Exercises "Knowledge Graph Analysis", University of Bonn, 2017/18
- ▷ Lecturer "Knowledge Graph Analysis", University of Bonn, 2017/18
- ▷ Seminar "Knowledge Graph Analysis", University of Bonn, 2017/18
- ▷ Accompanying Master Thesis Seminar, University of Bonn, 2017
- ▷ Projektgruppe Angewandte Softwaretechnologie (AST), University of Bonn, 2017
- ▷ Exercises "Knowledge Graph Analysis", University of Bonn, 2016/17
- ▷ Lecturer "Knowledge Graph Analysis", University of Bonn, 2016/17
- ▷ Seminar "Knowledge Graph Analysis", University of Bonn, 2016/17
- ▷ Accompanying Master Thesis Seminar, University of Bonn, 2016
- ▷ Seminar "Model-Driven Software Engineering", University of Bonn, 2016
- ▷ Lecturer "Semantic Web", University of Leipzig, 2015
- ▷ Practical course "Moderne Informationssysteme / Semantic Web", University of Leipzig, 2015
- ▷ Lecturer "Semantic Web", University of Leipzig, 2014
- ▷ Practical course "Semantic Web", University of Leipzig, 2014
- ▷ "Linked Data Lifecycle" lecture at ICCL Summer School, TU Dresden, 2013
- ▷ Lecturer "Semantic Web", University of Leipzig, 2013
- ▷ Lecturer "Social and Semantic Web" in "Content and Media Management" studies, Leipzig School of Media, 2013
- ▷ Practical course "Semantic Web", University of Leipzig, 2013
- ▷ Practical course "Software Engineering", University of Leipzig, 2012/13
- ▷ Seminar "Semantic Web", University of Leipzig, 2012/13
- ▷ Lecturer "Semantic Web", University of Leipzig, 2012
- ▷ Lecturer "Social and Semantic Web" in "Content and Media Engineering" studies, Leipzig School of Media, 2012
- ▷ Practical course "Semantic Web", University of Leipzig, 2012
- ▷ Assistant lecturer Semantic Web, University of Leipzig, 2011
- ▷ LSWT Data Web Tutorial, Leipzig School of Media, 2011

- ▷ Practical course "Semantic Web", University of Leipzig, 2011
- ▷ "Ontology Learning" lecture in Reasoning Web Summer School, TU Dresden, 2010
- ▷ Assistant lecturer "Semantic Web", University of Leipzig, 2010
- ▷ Practical course "Semantic Web", University of Leipzig, 2010
- ▷ Assistant lecturer "Semantic Web", University of Leipzig, 2009
- ▷ Practical course "Semantic Web", University of Leipzig, 2009
- ▷ Seminar "Softwareproduktlinienentwicklung und Semantic Web", University of Leipzig, 2008/09
- ▷ Seminar "Semantische Unterstützung von Software Entwicklungsprozessen", University of Leipzig, 2007/08
- ▷ Seminar "Semantic Web Applications", University of Leipzig, 2007
- ▷ Seminar "Semantic Web Services and Interfaces", University of Leipzig, 2006/07
- ▷ Research seminar of the chair of Business Information Systems, University of Leipzig, 2006-2010

## **8 Supervision**

### **8.1 Assistant Professors**

- ▷ Maria Maleshkova, Assistant Professor, University of Bonn, since 2018 (Akademischer Rat)
- ▷ Asja Fischer, Assistant Professor, University of Bonn, 2016-2018 (Akademischer Rat)

### **8.2 Supervised Postdoctoral Researchers**

- ▷ Simon Scerri, Postdoctoral Researcher, University of Bonn, since 2017
- ▷ Giulio Napolitano, Postdoctoral Researcher, University of Bonn, since 2017
- ▷ Christoph Lange, Postdoctoral Researcher, University of Bonn, since 2017
- ▷ Ioanna Lytra, Postdoctoral Researcher, University of Bonn, since 2017
- ▷ Anisa Rula, Postdoctoral Researcher, University of Bonn, since 2017
- ▷ Mohamed Sherif, Postdoctoral Researcher, University of Leipzig, since 2016
- ▷ Hamed Shariat Yazdi, Postdoctoral Researcher, University of Bonn, since 2016
- ▷ Alexander Kister, Postdoctoral Researcher, University of Bonn, since 2016
- ▷ Hajira Jabeen, Postdoctoral Researcher, University of Leipzig, since 2015
- ▷ Günter Kniesel, Postdoctoral Researcher, University of Bonn, since 2015
- ▷ Luís Paulo F. Garcia, Postdoctoral Researcher, University of Leipzig, 2017-2018
- ▷ Fabrizio Orlandi, Postdoctoral Researcher, University of Bonn, 2017-2018
- ▷ Henning Petzka, Postdoctoral Researcher, Fraunhofer IAIS, University of Bonn, 2016-2018
- ▷ Bastian Haarmann, Postdoctoral Researcher, Fraunhofer IAIS, 2016-2017
- ▷ Amrapali J. Zaveri, Postdoctoral Researcher, University of Leipzig, 2015

### **8.3 Supervised PhD Students**

- ▷ Harsh Thakkar, PhD student, University of Bonn, since 2017
- ▷ Denis Lukovnikov, PhD student, University of Bonn, since 2017
- ▷ Hamid Zafar, PhD student, University of Bonn, since 2017
- ▷ Debanjan Chaudhuri, PhD student, University of Bonn, since 2017
- ▷ Gezim Sejdiu, PhD student, University of Bonn, since 2016



- ▷ Mohnish Dubey, PhD student, University of Bonn, since 2015
- ▷ Simon Bin, PhD student, University of Leipzig, since 2015
- ▷ Diego Esteves, PhD student, University of Leipzig, since 2015
- ▷ Patrick Westphal, PhD student, University of Leipzig, since 2013
- ▷ Konrad Höffner, PhD student, University of Leipzig, since 2012
- ▷ Lorenz Bühmann, PhD student, University of Leipzig, since 2010
- ▷ Claus Stadler, PhD student, University of Leipzig, since 2010
- ▷ Dimitris Kontokostas, PhD student, University of Leipzig, 2012-2017
- ▷ Mohamed Sherif, PhD student, University of Leipzig, Automating Geospatial RDF Dataset Integration and Enrichment, 2012-2016
- ▷ Sebastian Hellmann, PhD student, University of Leipzig, Integrating Natural Language Processing (NLP) and Language Resources Using Linked Data, 2010-2014
- ▷ Amrapali J. Zaveri, PhD student, University of Leipzig, Linked Data Quality Assessment and its Application to Societal Progress Measurement, 2010-2014
- ▷ Mohamed Morsey, PhD student, University of Leipzig, Efficient Extraction and Query Benchmarking of Wikipedia Data, 2010-2013

#### **8.4 Supervised Master/Diploma Students**

Due to the high number of thesis, this list is incomplete.

- ▷ Mehdi Ali, master thesis, University of Bonn, 2018
- ▷ Ole Hadan, master thesis, University of Leipzig, 2017/18
- ▷ Sofia Kosovan, master thesis, University of Bonn, 2016-2017
- ▷ Yujie Diao, master thesis, University of Bonn, 2016
- ▷ Frank Nietzsche, master thesis, University of Leipzig, 2015-2016
- ▷ Eduard Metzler, diploma thesis, University of Leipzig, Anwendung von Lernalgorithmen an Phaenotyp-Ontologien einer Hausmaus mit Hilfe des DL-Learners, 2013
- ▷ Christian Kötteritzsch, master thesis, University of Leipzig, Anwendung von Ontologielernverfahren im medizinischen Bereich, 2011
- ▷ Lorenz Bühmann, master thesis, University of Leipzig, Reparatur und Erweiterung von OWL Ontologien, 2010

- ▷ Steffen Becker, diploma thesis, University of Leipzig, Musikempfehlungen im Semantic Web, 2010
- ▷ Sebastian Hellmann, diploma thesis, University of Leipzig, Comparison of Concept Learning Algorithms, 2007/2008
- ▷ Sebastian Knappe, diploma thesis, University of Leipzig, Navigation in DBpedia mit Hilfe maschinellen Lernens, 2007/2008
- ▷ Jörg Schüppel, diploma thesis, University of Leipzig, Semantikextraktion aus Wikipedia, 2006/2007 (with Sören Auer)

## **8.5 Supervised Bachelor Students**

Due to the high number of thesis, this list is incomplete.

- ▷ Quan Nguyen, bachelor thesis, University of Leipzig, Spielbasierte Verifikation von Links im Semantic Web, 2012
- ▷ Marco Wittig, bachelor thesis, University of Leipzig, 2011
- ▷ Vu Duc Minh, bachelor thesis, University of Leipzig, 2008
- ▷ Lorenz Bühmann, bachelor thesis, University of Leipzig, Erweiterung und Reparatur von Ontologien, 2008
- ▷ Christian Kötteritzsch, bachelor thesis, University of Leipzig, Entwicklung eines DL-Learner Plugins für Protégé, 2008
- ▷ Maria Moritz, bachelor thesis, University of Leipzig, 2008 (with Sebastian Dietzold)
- ▷ Rolland Brunec, bachelor thesis, University of Leipzig, 2007/2008
- ▷ Tom Weiland, bachelor thesis, University of Leipzig, 2007/2008
- ▷ Ruslan Masold, bachelor thesis, University of Leipzig, 2007/2008
- ▷ Tilo Hielscher, bachelor thesis, University of Leipzig, 2007/2008
- ▷ Fan Zhang, bachelor thesis, University of Leipzig, 2007
- ▷ Anke Gonschorreck, bachelor thesis, University of Leipzig, 2007

In addition, the work of more than 20 student assistants was supervised.

## **9 International Experience**

### **9.1 Employers & Visits**

- ▷ since 2015: Professor, University of Bonn and Fraunhofer IAIS, Germany
- ▷ 2006-2015: Researcher, University of Leipzig, Germany
- ▷ 2011-2012: Research Visitor, University of Oxford, UK
- ▷ 2005-2006: Erasmus Student, University of Bristol, UK
- ▷ 2001-2006: Dresden University of Technology, Germany
- ▷ 2001: System Service Meissen, Germany
- ▷ 1999: Delegation member "International Historical Forum of Youth", Opole, Poland
- ▷ 1998: 4 week language course in Brighton, UK; obtained language diploma: grade "Advanced", level "Excellent"

### **9.2 International Projects**

In the following funded projects I had an active role involving collaboration with researchers and practitioners from several countries (incomplete list):

- ▷ Big Data Europe (Germany, Greece, Belgium, Austria, France, UK, Italy, Norway, Spain)
- ▷ GeoKnow (Germany, Greece, Switzerland, UK)
- ▷ LATC (Germany, Netherlands, Ireland, UK)
- ▷ LOD2 (Austria, Belgium, Czech Republic, France, Germany, Ireland, Korea, Netherlands, Poland, Serbia, Slovenia, UK)
- ▷ OntoWiki EU (Austria, Germany, Slovenia, UK)

See Section 1 for further information on my involvement in those projects.

### **9.3 Lab Diversity**

So far, I supervised researchers of the following nationalities: Austrian, Brazilian, Chinese, Egyptian, German, Greece, Indian, Iranian, Pakistan, Russian, Spanish, Vietnamese. This includes researchers of both genders and researchers with disabilities.

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Visit <http://jens-lehmann.org> for more information and updates.