Curriculum Vitae

Personal Data Birthdate:	March 29, 1982
Birthplace:	Meissen, Saxony, Germany
Nationality:	German
Nationality.	German
Scientific Career	
since 2022	Principal Scientist at Amazon (AGI)
since 2022	Honorary Professor at TU Dresden
2015-2022	Full Professor (W3) at University of Bonn and Lead Scientist for Conversational AI and Knowledge Graphs Fraunhofer IAIS
2013-2015	Head of AKSW Research Group, University of Leipzig (≈ 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 mathe- matical and scientific education
1992 - 1998	StAfra-Gymnasium Meissen
Contact	
Office:	Amazon Research and Development Center Germany GmbH,
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For a short overview of research topics and "objective" performance measures, please see the table on the next¹ page.

Contents and Short Overview

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Short Overview

Research Topics	Artificial Intelligence/Machine Learning, Knowledge Graphs,	
Community projects	y projects Conversational AI, Large language models 60+ open source projects 40 000+ software/dataset downloads per month	
Publications $\approx 300+$ in international conferences and journals		
Major pub. venues ¹	ACL, ISWC, EMNLP, WebConf, AAAI, JWS, SWJ, NeurIPS,	
	MLJ, TPAMI, ECAI, JMLR	
Citations (per year)	25000+ (3000+ in 2022) according to Google Scholar	
H-Index	-Index 64 according to Google Scholar	
Best Paper Awards	15 (only international venues counted)	
Funding acquired	$>$ 20 Mio Euro as (Co-)PI, \approx 3 Mio Euro/year (in academia) EU H2020/FP7, DFG, BmBF, BmWI, DAAD	
Teaching experience	> 15 years and ≈ 30 courses	
Main teaching topics	Conversational AI, Semantic Web, Knowledge Graph Analysis	
PhDs/PostDocs	50+ supervised	

¹ISWC (International Semantic Web Conference), EMNLP (Empirical Methods in Natural Language Processing), ACL (Annual Meeting of the Association for Computional Linguistics), WebConf (World Wide Web Conference), AAAI (Association for the Advancement of Artificial Intelligence Conference), JWS (Journal of Web Semantics), SWJ (Semantic Web Journal), MLJ (Machine Learning Journal), TPAMI (IEEE Transactions on Pattern Analysis and Machine Intelligence), ECAI (European Conference on Artificial Intelligence), JMLR (Journal of Machine Learning Research)

1 Awards

1.1 International Awards

Semantic Web Journal 10 Year Best Paper Award 2022 for "LinkedGeoData: A Core for a Web of Spatial Open Data" with C. Stadler, K. Höffner, S. Auer.

See also: Amazon Science Blog Post for the award

- International Semantic Web Conference (ISWC) 2021, Best Research Paper Award for "Improving Inductive Link Prediction Using Hyper-Relational Facts", with M. Ali, M. Berrendorf, M. Galkin, V. Thost, T. Ma, V. Tresp
- ▷ AMiner Most Influential Scholar Award for Knowledge Engineering in 2021 and 2020 (ranked 3rd and 4th worldwide in those years)
- ▷ IEEE International Conference on Semantic Computing (ICSC) 2020, Best Resource Paper Award for "Let's build Bridges, not Walls: SPARQL Querying of TinkerPop Graph Databases with Sparql-Gremlin", with H. Thakkar, R. Angles, M. Rodriguez
- ▷ Elected as ELLIS (European Lab for Learning and Intelligent Systems) Fellow by the ELLIS Section Committee, 2020
- ▷ Award for the SPEAKER project at the AI innovation competition of the BMWi 2019
- Distinguished Reviewer Award at IJCAI (International Joint Conference on Artificial Intelligence) 2018
- ▷ Semantics 2017 Best Paper Award for "Trying Not to Die Benchmarking Orchestrating RDF and Graph Data Management Solution Benchmarks Using LITMUS", with H. Thakkar, Y. Keswani, M. Dubey, S. Auer
- 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
- ▷ 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 (2016), Best Resource Paper Award for "LODStats: The Data Web Census Dataset", with I. Ermilov, M. Martin, and S. Auer

- ▷ 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
- ▷ 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 and L. Bühmann
- ▷ 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
- ▷ 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
- ▷ 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
- ▷ 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
- ▷ International Semantic Web Conference Best Research Paper Award (2011) for "DBpedia SPARQL Benchmark", with M. Morsey, S. Auer and A.-C- Ngonga Ngomo
- ▷ Best Student Paper Award at the International Conference on Inductive Logic Programming (ILP) 2007 for "A Refinement Operator Based Learning Algorithm for the ALC Description Logic" and "Foundations of Refinement Operators for Description Logics" (USD 1500 price), with P. Hitzler
- ▷ 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 and S. Hellmann

1.2 Other Awards and Nominations

▷ Best Student Paper Candidate at KEOD 2021 for "A Scalable Approach for Distributed Reasoning over Large-scale OWL Datasets", with H. Mohamed, S. Fathalla, H. Jabeen

- ▷ First runner-up for best paper award at the WISE conference 2020 for "Encoding Knowledge Graph Entity Aliases in Attentive Neural Network for Wikidata Entity Linking-2020", with Isaiah Onando Mulang', Kuldeep Singh, Akhilesh Vyas, Saeedeh Shekarpour, Maria-Esther Vidal, Jens Lehmann, Soren Auer
- ▷ Best Student Paper Candidate at ISWC 2020 for "Temporal Knowledge Graph Embedding Model based on Additive Time Series Decomposition", with Chengjin Xu, Nayyeri Mojtaba, Fouad Alkhoury, Hamed Shariat Yazdi
- ▷ ICEGOV Award Nomination 2019 with Fathoni Musyaffa, Hajira Jabeen (see https://sda.tech/paper-accepted-at-icegov/)
- 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
- 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
- ▷ Best Paper at CSCUBS 2017 student conference for "Dialogue Response Generation using Neural Networks with Attention and Background Knowledge", with S. Kosovan and A. Fischer
- Fraunhofer IAIS Paper of the Month Award 2017 for "LC-QuAD: A Corpus for Complex Question Answering over Knowledge Graphs", November 2017, with P. Trivedi, G. Maheshwari, M. Dubey
- 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
- ▷ The META Seal of Recognition 2015 for DBpedia (see http://www.meta-net.eu/meta-seal)
- ▷ DBpedia selected by ReadWriteWeb 2009 as top 10 Semantic Web product
- ▷ Runner up in the ISWC 2009 Semantic Web challenge for LinkedGeoData with S. Auer and C. Stadler
- ▷ 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

2 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

- ▷ 5* Knowledge Graph Embeddings with Projective Transformations, *Mojtaba Nayy*eri, Sahar Vahdati, Can Aykul and Jens Lehmann, AAAI Press 2021, 9064–9072
- Neural Network-based Question Answering over Knowledge Graphs on Word and Character Level, Denis Lukovnikov, Asja Fischer, Jens Lehmann and Sören Auer, ACM 2017, 1211–1220, 276 citations
- DBpedia A large-scale, multilingual knowledge base extracted from Wikipedia, Jens Lehmann, Robert Isele, Max Jakob, Anja Jentzsch, Dimitris Kontokostas, Pablo N. Mendes, Sebastian Hellmann, Mohamed Morsey, Patrick van Kleef, Sören Auer and Christian Bizer, 2015, 167–195, SWJ Outstanding Paper Award 2014, 3001 citations
- ▷ Template-based question answering over RDF data, Christina Unger, Lorenz Bühmann, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, Daniel Gerber and Philipp Cimiano, ACM 2012, 639–648, 593 citations
- DBpedia SPARQL Benchmark Performance Assessment with Real Queries on Real Data, Mohamed Morsey, Jens Lehmann, Sören Auer and Axel-Cyrille Ngonga Ngomo, Springer 2011, 454–469, ISWC Best Paper Award, 375 citations
- Concept learning in description logics using refinement operators, Jens Lehmann and Pascal Hitzler, 2010, 203–250, Based on two ILP Best Paper Awards, 243 citations
- DBpedia A crystallization point for the Web of Data, Christian Bizer, Jens Lehmann, Georgi Kobilarov, Sören Auer, Christian Becker, Richard Cyganiak and Sebastian Hellmann, 2009, 154–165, Journal of Web Semantics 2006-2010 Award, 2840 citations
- DL-Learner: Learning Concepts in Description Logics, Jens Lehmann, 2009, 2639– 2642, 238 citations
- DBpedia: A Nucleus for a Web of Open Data, Sören Auer, Christian Bizer, Georgi Kobilarov, Jens Lehmann, Richard Cyganiak and Zachary G. Ives, Springer 2007, 722–735, ISWC 10 Year Best Paper Award, 5733 citations

 What Have Innsbruck and Leipzig in Common? Extracting Semantics from Wiki Content, Sören Auer and Jens Lehmann, Springer 2007, 503–517, ESWC 7-Year Most Influential Paper Award, 337 citations

3 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).

Total Funding a	s (Co-)PI		20.1 Mio Euro
OpenGPT-X (La	arge-Scale Language Models	s, NetMedia Depa	urtment Share)
Co-PI	BMWi	2022–2024	4,500,000 Euro
IntelliLung (Inte	lligent lung support system	for acute respirat	tory failure)
Co-PI	EU	2022–2027	1,000,000 Euro
SPEAKER (B2E	Conversational AI Platform	m, EIS Departme	nt Share)
Co-PI	BMWi	2020–2023	1,900,000 Euro
PLATOON ((Dig	gital PLAtform and analytic	cal TOOls for eNo	ergy))
Co-PI	H2020	2020–2022	507,500 Euro
OpertusMundi (A Single Digital Market for	Industrial Geosp	batial Data Assets)
Co-PI	H2020	2020–2022	622,500 Euro
Cleopatra (Cross	-lingual Event-centric Open	Analytics Resea	rch Academy)
Co-PI	H2020	2019–2022	505,576 Euro
MLwin (Maschine	elles Lernen mit Wissensgra	phen (pending))	506,699 Euro
Co-PI	BmBF	2018–2021	
Simple-ML (Big	Data Machine Learning Wo	ork ows leicht gen	(1 0//)
Co-PI	BmBF	2018–2021	
LAMBDA (Learn	ning, Applying, Multiplying	Big Data Analyt	tics)
Co-PI	H2020	2018–2021	388,500 Euro
Bio2Vec (Smart Z	Analytics Infrastructure for	the Life Sciences 2018–2021)
Co-PI	CRG		80,000 Euro
\mathbf{SOLIDE} (Sprachgesteuerte, kontextuelle Lagebildinformation)			

Co-PI	BmBF	2017-2020	160,000 Euro
QROWD (Crowds Co-PI	sourcing Big Data) EU H2020	2016-2019	753,250 Euro
SLIPO (Geospatia Co-PI	l Analytics) EU H2020	2016-2019	833,500 Euro
Domain Specific PI	Languages University of Bonn	2016-2018	70,000 Euro
Cognitive Robot PI	ics University of Bonn	2016-2018	70,000 Euro
Machine Learnin PI	g for Certain Theoretic University of Bonn	cal CS Problems 2016–2018	140,000 Euro
Smoothed Analy PI	sis of ML Algorithms for University of Bonn	or Knowledge Gr 2016–2018	aphs 70,000 Euro
	tion and Visualization f University of Bonn		,
GEISER (Geospa	tial Analytics)		,
Co-PI HOBBIT (Big Da	87	2016–2019	592,920 Euro
Co-PI Big Data Europe	EU H2020 e (Big Data for European S	2015–2018 Societal Challenges)	592,920 Euro
Co-PI DCF (Event Supp	EU H2020 ort Grant for Semantics 20	2015-2018	612,500 Euro
PI	DFG	2015-2018	20,000 Euro
PhD Grant Dieg PI	o Esteves Science without Borders	2014 - 2017	54,000 Euro
Diachron (Manag Co-PI	ing the Evolution and Pres EU FP7	ervation of the Dat 2013–2016	a Web) 531,300 Euro
GeoKnow (Project PI	t Enlargement of GeoKnov EU H2020	v) 2012–2018	70,000 Euro
GeoKnow (Makin PI	g the Web an Exploratory EU FP7	Place for Geospatia 2012–2015	al Data) 871,600 Euro

LinkingLOD (Interlinking Knowledge Bases)			
Contributor	DFG	2012 - 2014	89,400 Euro
PhD Grant Mo	hamed Sherif		
PI	DAAD	2012 - 2015	61,000 Euro
PhD Grant Mot	feed Hassan		
PI	DAAD	2012 - 2015	61,000 Euro
PhD Grant Am	rapali Zaveri		
PI	DAAD	2011 - 2014	48,000 Euro
PhD Grant Mo	hamed Morsey		
PI	DAAD	2011 - 2013	61,000 Euro
LOD2 (Creating Knowledge out of Interlinked Data)			
Major contributor		2010 - 2014	1,333,900 Euro
LATC (Helping You to Publish and Consume Linked Data)			
PI	Major contributor	2010-2012	198,500 Euro
Funding from Confidential Projects			
PI	-	<u> </u> -	2,000,000 Euro

4 List of Publications

Criterion	Value
#citation count	> 25000
#max. citations per year	> 2900
#h-index	59
#i10-index	140
#publications	320
#books	2
#journal publications	53
#conference and workshop publications	243
#book chapters	6
#proceedings	14

The table shows publication statistics with citations according to Google Scholar¹.

4.1 Books

- Jens Lehmann. Learning OWL Class Expressions, volume 6 of Studies on the Semantic Web. IOS Press, 2010.
- [2] Jens Lehmann and Johanna Völker. Perspectives on Ontology Learning, volume 18 of Studies on the Semantic Web. IOS Press, 2014.

4.2 Journal Articles

- [3] Christian Bizer, Jens Lehmann, Georgi Kobilarov, Sören Auer, Christian Becker, Richard Cyganiak, and Sebastian Hellmann. Dbpedia - a crystallization point for the web of data. J. Web Semant., 7(3):154–165, 2009. Journal of Web Semantics 2006-2010 Award.
- [4] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Learning of owl class descriptions on very large knowledge bases. Int. J. Semantic Web Inf. Syst., 5(2):25–48, 2009.
- [5] Jens Lehmann. Dl-learner: Learning concepts in description logics. J. Mach. Learn. Res., 10:2639–2642, 2009.

¹https://scholar.google.com/citations?user=sEaQ5rgAAAAJ

- [6] Sören Auer and Jens Lehmann. Creating knowledge out of interlinked data. Semantic Web, 1(1-2):97–104, 2010.
- [7] Jens Lehmann, Sebastian Bader, and Pascal Hitzler. Extracting reduced logic programs from artificial neural networks. *Appl. Intell.*, 32(3):249–266, 2010.
- [8] Jens Lehmann and Pascal Hitzler. Concept learning in description logics using refinement operators. *Mach. Learn.*, 78(1-2):203–250, 2010. Based on two ILP Best Paper Awards.
- [9] Jens Lehmann, Sören Auer, Lorenz Bühmann, and Sebastian Tramp. Class expression learning for ontology engineering. J. Web Semant., 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*, 46(2):157–181, 2012.
- [11] Claus Stadler, Jens Lehmann, Konrad Höffner, and Sören Auer. Linkedgeodata: A core for a web of spatial open data. Semantic Web, 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 - phasen im lebenszyklus von linked data. *Datenbank-Spektrum*, 13(2):77–87, 2013.
- [13] Amrapali Zaveri, Jens Lehmann, Sören Auer, Mofeed M. Hassan, Mohamed Ahmed Sherif, and Michael Martin. Publishing and interlinking the global health observatory dataset - towards increasing transparency in global health. *Semantic Web*, 4(3):315– 322, 2013.
- [14] Spiros Athanasiou, Daniel Hladky, Giorgos Giannopoulos, Alejandra García-Rojas, and Jens Lehmann. Geoknow: Making the web an exploratory place for geospatial knowledge. *ERCIM News*, 2014(96), 2014.
- [15] Christian Dirschl, Katja Eck, and Jens Lehmann. Supporting the data lifecycle at a global publisher using the linked data stack. *ERCIM News*, 2014(96), 2014.
- [16] Michael Martin, Claus Stadler, Philipp Frischmuth, and Jens Lehmann. Increasing the financial transparency of european commission project funding. *Semantic Web*, 5(2):157–164, 2014.
- [17] Daniel Gerber, Diego Esteves, Jens Lehmann, Lorenz Bühmann, Ricardo Usbeck, Axel-Cyrille Ngonga Ngomo, and René Speck. Defacto - temporal and multilingual deep fact validation. J. Web Semant., 35:85–101, 2015.

- [18] Jens Lehmann, Robert Isele, Max Jakob, Anja Jentzsch, Dimitris Kontokostas, Pablo N. Mendes, Sebastian Hellmann, Mohamed Morsey, Patrick van Kleef, Sören Auer, and Christian Bizer. Dbpedia - a large-scale, multilingual knowledge base extracted from wikipedia. *Semantic Web*, 6(2):167–195, 2015. SWJ Outstanding Paper Award 2014.
- [19] Jens Lehmann and Óscar Corcho. 2nd special issue on linked dataset descriptions. Semantic Web, 6(2):103–104, 2015.
- [20] Lorenz Bühmann, Jens Lehmann, and Patrick Westphal. Dl-learner a framework for inductive learning on the semantic web. J. Web Semant., 39:15–24, 2016.
- [21] Konrad Höffner, Michael Martin, and Jens Lehmann. Linkedspending: Openspending becomes linked open data. Semantic Web, 7(1):95–104, 2016.
- [22] Amrapali Zaveri, Anisa Rula, Andrea Maurino, Ricardo Pietrobon, Jens Lehmann, and Sören Auer. Quality assessment for linked data: A survey. *Semantic Web*, 7(1):63–93, 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, 8(6):895–920, 2017.
- [24] Maribel Acosta, Amrapali Zaveri, Elena Simperl, Dimitris Kontokostas, Fabian Flöck, and Jens Lehmann. Detecting linked data quality issues via crowdsourcing: A dbpedia study. *Semantic Web*, 9(3):303–335, 2018.
- [25] Diego Esteves, Anisa Rula, Aniketh Janardhan Reddy, and Jens Lehmann. Toward veracity assessment in rdf knowledge bases: An exploratory analysis. ACM J. Data Inf. Qual., 9(3):16:1–16:26, 2018.
- [26] Ali Ismayilov, Dimitris Kontokostas, Sören Auer, Jens Lehmann, and Sebastian Hellmann. Wikidata through the eyes of dbpedia. *Semantic Web*, 9(4):493–503, 2018.
- [27] Mehdi Ali, Charles Tapley Hoyt, Daniel Domingo-Fernández, Jens Lehmann, and Hajira Jabeen. Biokeen: a library for learning and evaluating biological knowledge graph embeddings. *Bioinform.*, 35(18):3538–3540, 2019.
- [28] Luís Paulo F. Garcia, Jens Lehmann, André C. P. L. F. de Carvalho, and Ana Carolina Lorena. New label noise injection methods for the evaluation of noise filters. *Knowl. Based Syst.*, 163:693–704, 2019.
- [29] Ana Carolina Lorena, Luís Paulo F. Garcia, Jens Lehmann, Marcílio Carlos Pereira de Souto, and Tin Kam Ho. How complex is your classification problem?: A survey

on measuring classification complexity. *ACM Comput. Surv.*, 52(5):107:1–107:34, 2019.

- [30] Anisa Rula, Matteo Palmonari, Simone Rubinacci, Axel-Cyrille Ngonga Ngomo, Jens Lehmann, Andrea Maurino, and Diego Esteves. Tisco: Temporal scoping of facts. J. Web Semant., 54:72–86, 2019.
- [31] Patrick Westphal, Lorenz Bühmann, Simon Bin, Hajira Jabeen, and Jens Lehmann. Sml-bench - a benchmarking framework for structured machine learning. *Semantic Web*, 10(2):231–245, 2019.
- [32] Fathoni A. Musyaffa, Maria-Esther Vidal, Fabrizio Orlandi, Jens Lehmann, and Hajira Jabeen. Iota: Interlinking of heterogeneous multilingual open fiscal data. *Expert Systems with Applications*, 147:113135, 2020.
- [33] Mojtaba Nayyeri, Mirza Mohtashim Alam, Jens Lehmann, and Sahar Vahdati. 3d learning and reasoning in link prediction over knowledge graphs. *IEEE Access*, 8:196459–196471, 2020.
- [34] Kuldeep Singh, Ioanna Lytra, Arun Sethupat Radhakrishna, Saeedeh Shekarpour, Maria-Esther Vidal, and Jens Lehmann. No one is perfect: Analysing the performance of question answering components over the dbpedia knowledge graph. *Journal of Web Semantics*, 65:100594, 2020.
- [35] Claus Stadler, Simon Bin, Lisa Wenige, Lorenz Bühmann, and Jens Lehmann. Schema-agnostic sparql-driven faceted search benchmark generation. J. Web Semant., 65:100614, 2020.
- [36] Hamid Zafar, Mohnish Dubey, Jens Lehmann, and Elena Demidova. Iqa: Interactive query construction in semantic question answering systems. *Journal of Web Semantics*, 64:100586, 2020.
- [37] Mehdi Ali, Max Berrendorf, Charles Tapley Hoyt, Laurent Vermue, Sahand Sharifzadeh, Volker Tresp, and Jens Lehmann. Pykeen 1.0: A python library for training and evaluating knowledge graph embeddings. J. Mach. Learn. Res., 22:82:1–82:6, 2021.
- [38] Vinay Srinivas Bharadhwaj, Mehdi Ali, Colin Birkenbihl, Sarah Mubeen, Jens Lehmann, Martin Hofmann-Apitius, Charles Tapley Hoyt, and Daniel Domingo-Fernández. Clep: a hybrid data- and knowledge-driven framework for generating patient representations. *Bioinform.*, 37(19):3311–3318, 2021.
- [39] Nilesh Chakraborty, Denis Lukovnikov, Gaurav Maheshwari, Priyansh Trivedi, Jens Lehmann, and Asja Fischer. Introduction to neural network-based question answering

over knowledge graphs. Wiley Interdiscip. Rev. Data Min. Knowl. Discov., 11(3), 2021.

- [40] Arthur Lackner, Said Fathalla, Mojtaba Nayyeri, Andreas Behrend, Rainer Manthey, Sören Auer, Jens Lehmann, and Sahar Vahdati. Analysing the evolution of computer science events leveraging a scholarly knowledge graph: a scientometrics study of top-ranked events in the past decade. *Scientometrics*, 126(9):8129–8151, 2021.
- [41] Mojtaba Nayyeri, Gökce Müge Cil, Sahar Vahdati, Francesco Osborne, Andrey Kravchenko, Simone Angioni, Angelo A. Salatino, Diego Reforgiato Recupero, Enrico Motta, and Jens Lehmann. Link prediction of weighted triples for knowledge graph completion within the scholarly domain. *IEEE Access*, 9:116002–116014, 2021.
- [42] Mojtaba Nayyeri, Gökce Müge Cil, Sahar Vahdati, Francesco Osborne, Mahfuzur Rahman, Simone Angioni, Angelo A. Salatino, Diego Reforgiato Recupero, Nadezhda Vassilyeva, Enrico Motta, and Jens Lehmann. Trans4e: Link prediction on scholarly knowledge graphs. *Neurocomputing*, 461:530–542, 2021.
- [43] Italo Lopes Oliveira, Renato Fileto, René Speck, Luís Paulo F. Garcia, Diego Moussallem, and Jens Lehmann. Towards holistic entity linking: Survey and directions. *Information Systems*, 95:101624, 2021.
- [44] Ariam Rivas, Irlán Grangel-González, Diego Collarana, Jens Lehmann, and Maria-Esther Vidal. Discover relations in the industry 4.0 standards via unsupervised learning on knowledge graph embeddings. J. Data Intell., 2(3):326–347, 2021.
- [45] Mirza Mohtashim Alam, Md. Rashad Al Hasan Rony, Mojtaba Nayyeri, Karishma Mohiuddin, M. S. T. Mahfuja Akter, Sahar Vahdati, and Jens Lehmann. Language model guided knowledge graph embeddings. *IEEE Access*, 10:76008–76020, 2022.
- [46] Md. Rashad Al Hasan Rony, Debanjan Chaudhuri, Ricardo Usbeck, and Jens Lehmann. Tree-kgqa: An unsupervised approach for question answering over knowledge graphs. *IEEE Access*, 10:50467–50478, 2022.
- [47] Md. Rashad Al Hasan Rony, Uttam Kumar, Roman Teucher, Liubov Kovriguina, and Jens Lehmann. Sgpt: A generative approach for sparql query generation from natural language questions. *IEEE Access*, 10:70712–70723, 2022.
- [48] Patrick Westphal, Tobias Grubenmann, Diego Collarana, Simon Bin, Lorenz Bühmann, and Jens Lehmann. Spatial concept learning and inference on geospatial polygon data. *Knowl. Based Syst.*, 241:108233, 2022.

4.3 Inproceedings

- [49] Sören Auer, Christian Bizer, Georgi Kobilarov, Jens Lehmann, Richard Cyganiak, and Zachary G. Ives. Dbpedia: A nucleus for a web of open data. In The Semantic Web, 6th International Semantic Web Conference, 2nd Asian Semantic Web Conference, ISWC 2007 + ASWC 2007, Busan, Korea, November 11-15, 2007, volume 4825 of Lecture Notes in Computer Science, pages 722–735. Springer, 2007. ISWC 10 Year Best Paper Award.
- [50] Sören Auer, Sebastian Dietzold, Jens Lehmann, and Thomas Riechert. Ontowiki: A tool for social, semantic collaboration. In Proceedings of the Workshop on Social and Collaborative Construction of Structured Knowledge (CKC 2007) at the 16th International World Wide Web Conference (WWW2007) Banff, Canada, May 8, 2007, volume 273 of CEUR Workshop Proceedings. CEUR-WS.org, 2007.
- [51] Sören Auer and Jens Lehmann. What have innsbruck and leipzig in common? extracting semantics from wiki content. In *The Semantic Web: Research and Applications, 4th European Semantic Web Conference, ESWC 2007, Innsbruck, Austria, June 3-7, 2007, Proceedings*, volume 4519 of *Lecture Notes in Computer Science*, pages 503–517. Springer, 2007. ESWC 7-Year Most Influential Paper Award.
- [52] Jens Lehmann. Hybrid learning of ontology classes. In Machine Learning and Data Mining in Pattern Recognition, 5th International Conference, MLDM 2007, Leipzig, Germany, July 18-20, 2007, Proceedings, volume 4571 of Lecture Notes in Computer Science, pages 883–898. Springer, 2007.
- [53] Jens Lehmann and Pascal Hitzler. Foundations of refinement operators for description logics. In *Inductive Logic Programming*, 17th International Conference, ILP 2007, Corvallis, OR, USA, June 19-21, 2007, Revised Selected Papers, volume 4894 of Lecture Notes in Computer Science, pages 161–174. Springer, 2007.
- [54] Jens Lehmann and Pascal Hitzler. A refinement operator based learning algorithm for the emphalc description logic. In *Inductive Logic Programming*, 17th International Conference, ILP 2007, Corvallis, OR, USA, June 19-21, 2007, Revised Selected Papers, volume 4894 of Lecture Notes in Computer Science, pages 147–160. Springer, 2007.
- [55] Jens Lehmann, Jörg Schüppel, and Sören Auer. Discovering unknown connections the dbpedia relationship finder. In *The Social Semantic Web 2007, Proceedings* of the 1st Conference on Social Semantic Web (CSSW), September 26-28, 2007, Leipzig, Germany, volume P-113 of LNI, pages 99–109. GI, 2007.

- [56] Thomas Riechert, Kim Lauenroth, and Jens Lehmann. Swore softwiki ontology for requirements engineering. In *The Social Semantic Web 2007, Proceedings of the 1st Conference on Social Semantic Web (CSSW), September 26-28, 2007, Leipzig, Germany*, volume P-113 of *LNI*, pages 111–118. GI, 2007.
- [57] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Learning of owl class descriptions on very large knowledge bases. In Proceedings of the Poster and Demonstration Session at the 7th International Semantic Web Conference (ISWC2008), Karlsruhe, Germany, October 28, 2008, volume 401 of CEUR Workshop Proceedings. CEUR-WS.org, 2008.
- [58] Sören Auer, Sebastian Dietzold, Jens Lehmann, Sebastian Hellmann, and David Aumueller. Triplify: light-weight linked data publication from relational databases. In Proceedings of the 18th International Conference on World Wide Web, WWW 2009, Madrid, Spain, April 20-24, 2009, pages 621–630. ACM, 2009.
- [59] Sören Auer, Jens Lehmann, and Sebastian Hellmann. Linkedgeodata: Adding a spatial dimension to the web of data. In *The Semantic Web - ISWC 2009, 8th International Semantic Web Conference, ISWC 2009, Chantilly, VA, USA, October* 25-29, 2009. Proceedings, volume 5823 of Lecture Notes in Computer Science, pages 731-746. Springer, 2009.
- [60] Philipp Heim, Sebastian Hellmann, Jens Lehmann, Steffen Lohmann, and Timo Stegemann. Relfinder: Revealing relationships in rdf knowledge bases. In Semantic Multimedia, 4th International Conference on Semantic and Digital Media Technologies, SAMT 2009, Graz, Austria, December 2-4, 2009, Proceedings, volume 5887 of Lecture Notes in Computer Science, pages 182–187. Springer, 2009.
- [61] Sebastian Hellmann, Claus Stadler, Jens Lehmann, and Sören Auer. Dbpedia live extraction. In On the Move to Meaningful Internet Systems: OTM 2009, Confederated International Conferences, CoopIS, DOA, IS, and ODBASE 2009, Vilamoura, Portugal, November 1-6, 2009, Proceedings, Part II, volume 5871 of Lecture Notes in Computer Science, pages 1209–1223. Springer, 2009.
- [62] Jens Lehmann and Christoph Haase. Ideal downward refinement in the emphel description logic. In *Inductive Logic Programming*, 19th International Conference, *ILP 2009, Leuven, Belgium, July 02-04, 2009. Revised Papers*, volume 5989 of *Lecture Notes in Computer Science*, pages 73–87. Springer, 2009.
- [63] Sören Auer, Matthias Weidl, Jens Lehmann, Amrapali Zaveri, and Key-Sun Choi. I18n of semantic web applications. In *The Semantic Web - ISWC 2010 - 9th International Semantic Web Conference, ISWC 2010, Shanghai, China, November* 7-11, 2010, Revised Selected Papers, Part II, volume 6497 of Lecture Notes in *Computer Science*, pages 1–16. Springer, 2010.

- [64] Sebastian Hellmann, Jörg Unbehauen, and Jens Lehmann. Hanne a holistic application for navigational knowledge engineering. In Proceedings of the ISWC 2010 Posters & Demonstrations Track: Collected Abstracts, Shanghai, China, November 9, 2010, volume 658 of CEUR Workshop Proceedings. CEUR-WS.org, 2010.
- [65] Jens Lehmann and Lorenz Bühmann. Ore a tool for repairing and enriching knowledge bases. In *The Semantic Web - ISWC 2010 - 9th International Semantic* Web Conference, ISWC 2010, Shanghai, China, November 7-11, 2010, Revised Selected Papers, Part II, volume 6497 of Lecture Notes in Computer Science, pages 177–193. Springer, 2010.
- [66] Claus Stadler, Michael Martin, Jens Lehmann, and Sebastian Hellmann. Update strategies for dbpedia live. In Proceedings of the Sixth Workshop on Scripting and Development for the Semantic Web, Crete, Greece, May 31, 2010, volume 699 of CEUR Workshop Proceedings. CEUR-WS.org, 2010.
- [67] Sören Auer, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Introduction to linked data and its lifecycle on the web. In *Reasoning Web. Semantic Technologies* for the Web of Data - 7th International Summer School 2011, Galway, Ireland, August 23-27, 2011, Tutorial Lectures, volume 6848 of Lecture Notes in Computer Science, pages 1–75. Springer, 2011.
- [68] Josué Iglesias and Jens Lehmann. Towards integrating fuzzy logic capabilities into an ontology-based inductive logic programming framework. In 11th International Conference on Intelligent Systems Design and Applications, ISDA 2011, Córdoba, Spain, November 22-24, 2011, pages 1323–1328. IEEE, 2011.
- [69] Jens Lehmann and Lorenz Bühmann. Autosparql: Let users query your knowledge base. In The Semantic Web: Research and Applications - 8th Extended Semantic Web Conference, ESWC 2011, Heraklion, Crete, Greece, May 29-June 2, 2011, Proceedings, Part I, volume 6643 of Lecture Notes in Computer Science, pages 63-79. Springer, 2011.
- [70] Mohamed Morsey, Jens Lehmann, Sören Auer, and Axel-Cyrille Ngonga Ngomo. Dbpedia sparql benchmark - performance assessment with real queries on real data. In The Semantic Web - ISWC 2011 - 10th International Semantic Web Conference, Bonn, Germany, October 23-27, 2011, Proceedings, Part I, volume 7031 of Lecture Notes in Computer Science, pages 454–469. Springer, 2011. ISWC Best Paper Award.
- [71] Axel-Cyrille Ngonga Ngomo, Jens Lehmann, Sören Auer, and Konrad Höffner. Raven - active learning of link specifications. In *Proceedings of the 6th International*

Workshop on Ontology Matching, Bonn, Germany, October 24, 2011, volume 814 of CEUR Workshop Proceedings. CEUR-WS.org, 2011.

- [72] Amrapali Zaveri, Ricardo Pietrobon, Sören Auer, Jens Lehmann, Michael Martin, and Timofey Ermilov. Redd-observatory: Using the web of data for evaluating the research-disease disparity. In Proceedings of the 2011 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2011, Campus Scientifique de la Doua, Lyon, France, August 22-27, 2011, pages 178–185. IEEE Computer Society, 2011.
- [73] Sören Auer, Lorenz Bühmann, Christian Dirschl, Orri Erling, Michael Hausenblas, Robert Isele, Jens Lehmann, Michael Martin, Pablo N. Mendes, Bert Van Nuffelen, Claus Stadler, Sebastian Tramp, and Hugh Williams. Managing the life-cycle of linked data with the lod2 stack. In *The Semantic Web - ISWC 2012 - 11th International Semantic Web Conference, Boston, MA, USA, November 11-15, 2012, Proceedings, Part II*, volume 7650 of *Lecture Notes in Computer Science*, pages 1–16. Springer, 2012.
- [74] Sören Auer, Jan Demter, Michael Martin, and Jens Lehmann. Lodstats an extensible framework for high-performance dataset analytics. In *Knowledge Engineering and Knowledge Management 18th International Conference, EKAW 2012, Galway City, Ireland, October 8-12, 2012. Proceedings*, volume 7603 of Lecture Notes in Computer Science, pages 353–362. Springer, 2012.
- [75] Lorenz Bühmann and Jens Lehmann. Universal owl axiom enrichment for large knowledge bases. In Knowledge Engineering and Knowledge Management - 18th International Conference, EKAW 2012, Galway City, Ireland, October 8-12, 2012. Proceedings, volume 7603 of Lecture Notes in Computer Science, pages 57–71. Springer, 2012.
- [76] Didier Cherix, Sebastian Hellmann, and Jens Lehmann. Improving the performance of the dl-learner sparql component for semantic web applications. In Semantic Technology, Second Joint International Conference, JIST 2012, Nara, Japan, December 2-4, 2012. Proceedings, volume 7774 of Lecture Notes in Computer Science, pages 332–337. Springer, 2012.
- [77] Christophe Guéret, Paul Groth, Claus Stadler, and Jens Lehmann. Assessing linked data mappings using network measures. In *The Semantic Web: Research and Applications - 9th Extended Semantic Web Conference, ESWC 2012, Heraklion, Crete, Greece, May 27-31, 2012. Proceedings*, volume 7295 of *Lecture Notes in Computer Science*, pages 87–102. Springer, 2012.
- [78] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Linked-data aware uri schemes for referencing text fragments. In *Knowledge Engineering and Knowledge*

Management - 18th International Conference, EKAW 2012, Galway City, Ireland, October 8-12, 2012. Proceedings, volume 7603 of Lecture Notes in Computer Science, pages 175–184. Springer, 2012.

- [79] Sebastian Hellmann, Jens Lehmann, Sören Auer, and Marcus Nitzschke. Nif combinator: Combining nlp tool output. In Knowledge Engineering and Knowledge Management - 18th International Conference, EKAW 2012, Galway City, Ireland, October 8-12, 2012. Proceedings, volume 7603 of Lecture Notes in Computer Science, pages 446-449. Springer, 2012.
- [80] Sebastian Hellmann, Jens Lehmann, Jörg Unbehauen, Claus Stadler, Thanh Nghia Lam, and Markus Strohmaier. Navigation-induced knowledge engineering by example. In Semantic Technology, Second Joint International Conference, JIST 2012, Nara, Japan, December 2-4, 2012. Proceedings, volume 7774 of Lecture Notes in Computer Science, pages 207–222. Springer, 2012.
- [81] Jens Lehmann, Tim Furche, Giovanni Grasso, Axel-Cyrille Ngonga Ngomo, Christian Schallhart, Andrew Jon Sellers, Christina Unger, Lorenz Bühmann, Daniel Gerber, Konrad Höffner, David Liu, and Sören Auer. deqa: Deep web extraction for question answering. In *The Semantic Web - ISWC 2012 - 11th International Semantic Web Conference, Boston, MA, USA, November 11-15, 2012, Proceedings, Part II*, volume 7650 of *Lecture Notes in Computer Science*, pages 131–147. Springer, 2012.
- [82] Jens Lehmann, Daniel Gerber, Mohamed Morsey, and Axel-Cyrille Ngonga Ngomo. Defacto - deep fact validation. In *The Semantic Web - ISWC 2012 - 11th International Semantic Web Conference, Boston, MA, USA, November 11-15, 2012, Proceedings, Part I,* volume 7649 of *Lecture Notes in Computer Science*, pages 312–327. Springer, 2012.
- [83] Mohamed Morsey, Jens Lehmann, Sören Auer, and Axel-Cyrille Ngonga Ngomo. Usage-centric benchmarking of rdf triple stores. In Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence, July 22-26, 2012, Toronto, Ontario, Canada. AAAI Press, 2012.
- [84] Omer Farukhan Günes, Tim Furche, Christian Schallhart, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Eager: Extending automatically gazetteers for entity recognition. In Proceedings of the 3rd Workshop on the People's Web Meets NLP: Collaboratively Constructed Semantic Resources and their Applications to NLP@ACL 2012, Jeju, Republic of Korea, July 13, 2012, pages 29–33. Association for Computational Linguistics, 2012.
- [85] Christina Unger, Lorenz Bühmann, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, Daniel Gerber, and Philipp Cimiano. Template-based question answering over rdf

data. In Proceedings of the 21st World Wide Web Conference 2012, WWW 2012, Lyon, France, April 16-20, 2012, pages 639–648. ACM, 2012.

- [86] Maribel Acosta, Amrapali Zaveri, Elena Simperl, Dimitris Kontokostas, Sören Auer, and Jens Lehmann. Crowdsourcing linked data quality assessment. In *The Semantic Web - ISWC 2013 - 12th International Semantic Web Conference, Sydney, NSW, Australia, October 21-25, 2013, Proceedings, Part II*, volume 8219 of Lecture Notes in Computer Science, pages 260–276. Springer, 2013.
- [87] Sören Auer, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, and Amrapali Zaveri. Introduction to linked data and its lifecycle on the web. In *Reasoning Web. Semantic Technologies for Intelligent Data Access - 9th International Summer School 2013, Mannheim, Germany, July 30 - August 2, 2013. Proceedings*, volume 8067 of Lecture Notes in Computer Science, pages 1–90. Springer, 2013.
- [88] Lorenz Bühmann and Jens Lehmann. Pattern based knowledge base enrichment. In The Semantic Web - ISWC 2013 - 12th International Semantic Web Conference, Sydney, NSW, Australia, October 21-25, 2013, Proceedings, Part I, volume 8218 of Lecture Notes in Computer Science, pages 33–48. Springer, 2013.
- [89] Ivan Ermilov, Michael Martin, Jens Lehmann, and Sören Auer. Linked open data statistics: Collection and exploitation. In Knowledge Engineering and the Semantic Web - 4th International Conference, KESW 2013, St. Petersburg, Russia, October 7-9, 2013. Proceedings, volume 394 of Communications in Computer and Information Science, pages 242–249. Springer, 2013.
- [90] Sebastian Hellmann, Jens Lehmann, Sören Auer, and Martin Brümmer. Integrating nlp using linked data. In *The Semantic Web - ISWC 2013 - 12th International Semantic Web Conference, Sydney, NSW, Australia, October 21-25, 2013, Proceedings, Part II*, volume 8219 of *Lecture Notes in Computer Science*, pages 98–113. Springer, 2013.
- [91] Konrad Höffner, Christina Unger, Lorenz Bühmann, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, Daniel Gerber, and Philipp Cimiano. User interface for a template based question answering system. In Knowledge Engineering and the Semantic Web - 4th International Conference, KESW 2013, St. Petersburg, Russia, October 7-9, 2013. Proceedings, volume 394 of Communications in Computer and Information Science, pages 258–264. Springer, 2013.
- [92] Dimitris Kontokostas, Amrapali Zaveri, Sören Auer, and Jens Lehmann. Triplecheckmate: A tool for crowdsourcing the quality assessment of linked data. In Knowledge Engineering and the Semantic Web - 4th International Conference, KESW 2013, St. Petersburg, Russia, October 7-9, 2013. Proceedings, volume 394 of Communications in Computer and Information Science, pages 265–272. Springer, 2013.

- [93] Jens Lehmann, Tri Quan Nguyen, and Timofey Ermilov. Can we create better links by playing games? In 2013 IEEE Seventh International Conference on Semantic Computing, Irvine, CA, USA, September 16-18, 2013, pages 322–329. IEEE Computer Society, 2013.
- [94] Klaus Lyko, Konrad Höffner, René Speck, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Saim - one step closer to zero-configuration link discovery. In The Semantic Web: ESWC 2013 Satellite Events - ESWC 2013 Satellite Events, Montpellier, France, May 26-30, 2013, Revised Selected Papers, volume 7955 of Lecture Notes in Computer Science, pages 167–172. Springer, 2013.
- [95] Axel-Cyrille Ngonga Ngomo, Lorenz Bühmann, Christina Unger, Jens Lehmann, and Daniel Gerber. Sorry, i don't speak sparql: translating sparql queries into natural language. In 22nd International World Wide Web Conference, WWW '13, Rio de Janeiro, Brazil, May 13-17, 2013, pages 977–988. International World Wide Web Conferences Steering Committee / ACM, 2013.
- [96] Axel-Cyrille Ngonga Ngomo, Lorenz Bühmann, Christina Unger, Jens Lehmann, and Daniel Gerber. Sparql2nl: verbalizing sparql queries. In 22nd International World Wide Web Conference, WWW '13, Rio de Janeiro, Brazil, May 13-17, 2013, Companion Volume, pages 329–332. International World Wide Web Conferences Steering Committee / ACM, 2013.
- [97] Axel-Cyrille Ngonga Ngomo, Jens Lehmann, and Mofeed M. Hassan. Towards transfer learning of link specifications. In 2013 IEEE Seventh International Conference on Semantic Computing, Irvine, CA, USA, September 16-18, 2013, pages 202–205. IEEE Computer Society, 2013.
- [98] Saeedeh Shekarpour, Konrad Höffner, Jens Lehmann, and Sören Auer. Keyword query expansion on linked data using linguistic and semantic features. In 2013 IEEE Seventh International Conference on Semantic Computing, Irvine, CA, USA, September 16-18, 2013, pages 191–197. IEEE Computer Society, 2013.
- [99] Amrapali Zaveri, Dimitris Kontokostas, Mohamed Ahmed Sherif, Lorenz Bühmann, Mohamed Morsey, Sören Auer, and Jens Lehmann. User-driven quality evaluation of dbpedia. In *I-SEMANTICS 2013 - 9th International Conference on Semantic* Systems, ISEM '13, Graz, Austria, September 4-6, 2013, pages 97–104. ACM, 2013.
- [100] Amrapali Zaveri, Katja Nowick, and Jens Lehmann. Towards biomedical data integration for analyzing the evolution of cognition. In 43. Jahrestagung der Gesellschaft für Informatik, Informatik angepasst an Mensch, Organisation und Umwelt, INFORMATIK 2013, Koblenz, Germany, September 16-20, 2013, volume P-220 of LNI, pages 1900–1907. GI, 2013.

- [101] Farshad Badie, Tommaso Soru, and Jens Lehmann. A fuzzy knowledge representation model for student performance assessment. In *IEEE 14th International Conference on Advanced Learning Technologies, ICALT 2014, Athens, Greece, July* 7-10, 2014, pages 539–540. IEEE Computer Society, 2014.
- [102] Lorenz Bühmann, Daniel Fleischhacker, Jens Lehmann, André Melo, and Johanna Völker. Inductive lexical learning of class expressions. In Knowledge Engineering and Knowledge Management - 19th International Conference, EKAW 2014, Linköping, Sweden, November 24-28, 2014. Proceedings, volume 8876 of Lecture Notes in Computer Science, pages 42–53. Springer, 2014.
- [103] Didier Cherix, Ricardo Usbeck, Andreas Both, and Jens Lehmann. Crocus: Clusterbased ontology data cleansing. In Joint Proceedings of the Second International Workshop on Semantic Web Enterprise Adoption and Best Practice and Second International Workshop on Finance and Economics on the Semantic Web Co-located with 11th European Semantic Web Conference, WaSABi-FEOSW@ESWC 2014, Anissaras, Greece, May 26, 2014, volume 1240 of CEUR Workshop Proceedings. CEUR-WS.org, 2014.
- [104] Didier Cherix, Ricardo Usbeck, Andreas Both, and Jens Lehmann. Lessons learned - the case of crocus: Cluster-based ontology data cleansing. In *The Semantic Web:* ESWC 2014 Satellite Events - ESWC 2014 Satellite Events, Anissaras, Crete, Greece, May 25-29, 2014, Revised Selected Papers, volume 8798 of Lecture Notes in Computer Science, pages 14–24. Springer, 2014.
- [105] Konrad Höffner and Jens Lehmann. Towards question answering on statistical linked data. In Proceedings of the 10th International Conference on Semantic Systems, SEMANTICS 2014, Leipzig, Germany, September 4-5, 2014, pages 61–64. ACM, 2014.
- [106] Dimitris Kontokostas, Martin Brümmer, Sebastian Hellmann, Jens Lehmann, and Lazaros Ioannidis. Nlp data cleansing based on linguistic ontology constraints. In The Semantic Web: Trends and Challenges - 11th International Conference, ESWC 2014, Anissaras, Crete, Greece, May 25-29, 2014. Proceedings, volume 8465 of Lecture Notes in Computer Science, pages 224–239. Springer, 2014.
- [107] Dimitris Kontokostas, Patrick Westphal, Sören Auer, Sebastian Hellmann, Jens Lehmann, and Roland Cornelissen. Databugger: a test-driven framework for debugging the web of data. In 23rd International World Wide Web Conference, WWW '14, Seoul, Republic of Korea, April 7-11, 2014, Companion Volume, pages 115–118. ACM, 2014.
- [108] Dimitris Kontokostas, Patrick Westphal, Sören Auer, Sebastian Hellmann, Jens Lehmann, Roland Cornelissen, and Amrapali Zaveri. Test-driven evaluation of

linked data quality. In 23rd International World Wide Web Conference, WWW '14, Seoul, Republic of Korea, April 7-11, 2014, pages 747–758. ACM, 2014.

- [109] Denis Lukovnikov, Dimitris Kontokostas, Claus Stadler, Sebastian Hellmann, and Jens Lehmann. Dbpedia viewer - an integrative interface for dbpedia leveraging the dbpedia service eco system. In Proceedings of the Workshop on Linked Data on the Web co-located with the 23rd International World Wide Web Conference (WWW 2014), Seoul, Korea, April 8, 2014, volume 1184 of CEUR Workshop Proceedings. CEUR-WS.org, 2014.
- [110] Denis Lukovnikov, Claus Stadler, and Jens Lehmann. Ld viewer linked data presentation framework. In Proceedings of the 10th International Conference on Semantic Systems, SEMANTICS 2014, Leipzig, Germany, September 4-5, 2014, pages 124–131. ACM, 2014.
- [111] Edgard Marx, Ricardo Usbeck, Axel-Cyrille Ngonga Ngomo, Konrad Höffner, Jens Lehmann, and Sören Auer. Towards an open question answering architecture. In Proceedings of the 10th International Conference on Semantic Systems, SE-MANTICS 2014, Leipzig, Germany, September 4-5, 2014, pages 57–60. ACM, 2014.
- [112] Axel-Cyrille Ngonga Ngomo, Sören Auer, Jens Lehmann, and Amrapali Zaveri. Introduction to linked data and its lifecycle on the web. In *Reasoning Web. Reasoning on the Web in the Big Data Era - 10th International Summer School* 2014, Athens, Greece, September 8-13, 2014. Proceedings, volume 8714 of Lecture Notes in Computer Science, pages 1–99. Springer, 2014.
- [113] Suresh Pokharel, Mohamed Ahmed Sherif, and Jens Lehmann. Ontology based data access and integration for improving the effectiveness of farming in nepal. In 2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT), Warsaw, Poland, August 11-14, 2014 -Volume I, pages 319–326. IEEE Computer Society, 2014.
- [114] Anisa Rula, Matteo Palmonari, Axel-Cyrille Ngonga Ngomo, Daniel Gerber, Jens Lehmann, and Lorenz Bühmann. Hybrid acquisition of temporal scopes for rdf data. In The Semantic Web: Trends and Challenges - 11th International Conference, ESWC 2014, Anissaras, Crete, Greece, May 25-29, 2014. Proceedings, volume 8465 of Lecture Notes in Computer Science, pages 488–503. Springer, 2014.
- [115] Mohamed Ahmed Sherif, Sandro Coelho, Ricardo Usbeck, Sebastian Hellmann, Jens Lehmann, Martin Brümmer, and Andreas Both. Nif4oggd - nlp interchange format for open german governmental data. In Proceedings of the Ninth International Conference on Language Resources and Evaluation, LREC 2014, Reykjavik, Iceland,

May 26-31, 2014, pages 3524–3528. European Language Resources Association (ELRA), 2014.

- [116] Claus Stadler, Patrick Westphal, and Jens Lehmann. Jassa a javascript suite for sparql-based faceted search. In Proceedings of the ISWC Developers Workshop 2014, co-located with the 13th International Semantic Web Conference (ISWC 2014), Riva del Garda, Italy, October 19, 2014, volume 1268 of CEUR Workshop Proceedings, pages 31–36. CEUR-WS.org, 2014.
- [117] Andreas Both, Matthias Wauer, Alejandra García-Rojas, Daniel Hladky, and Jens Lehmann. The geoknow generator workbench an integrated tool supporting the linked data lifecycle for enterprise usage. In Joint Proceedings of the Posters and Demos Track of 11th International Conference on Semantic Systems SEMANTICS 2015 and 1st Workshop on Data Science: Methods, Technology and Applications (DSci15) 11th International Conference on Semantic Systems SEMANTICS 2015, Vienna, Austria, September 15-17, 2015, volume 1481 of CEUR Workshop Proceedings, pages 92–95. CEUR-WS.org, 2015.
- [118] Anastasia Dimou, Dimitris Kontokostas, Markus Freudenberg, Ruben Verborgh, Jens Lehmann, Erik Mannens, Sebastian Hellmann, and Rik Van de Walle. Assessing and refining mappings to rdf to improve dataset quality. In *The Semantic Web* - *ISWC 2015 - 14th International Semantic Web Conference, Bethlehem, PA*, *USA, October 11-15, 2015, Proceedings, Part II*, volume 9367 of *Lecture Notes in Computer Science*, pages 133–149. Springer, 2015.
- [119] Anastasia Dimou, Dimitris Kontokostas, Markus Freudenberg, Ruben Verborgh, Jens Lehmann, Erik Mannens, Sebastian Hellmann, and Rik Van de Walle. Testdriven assessment of [r2]rml mappings to improve dataset quality. In Proceedings of the ISWC 2015 Posters & Demonstrations Track co-located with the 14th International Semantic Web Conference (ISWC-2015), Bethlehem, PA, USA, October 11, 2015, volume 1486 of CEUR Workshop Proceedings. CEUR-WS.org, 2015.
- [120] Ivan Ermilov, Konrad Hoeffner, Jens Lehmann, and Dmitry Mouromtsev. kore: Using linked data for openscience information integration. In Joint Proceedings of the Posters and Demos Track of 11th International Conference on Semantic Systems
 SEMANTICS 2015 and 1st Workshop on Data Science: Methods, Technology and Applications (DSci15) 11th International Conference on Semantic Systems
 SEMANTICS 2015, Vienna, Austria, September 15-17, 2015, volume 1481 of CEUR Workshop Proceedings, pages 67–70. CEUR-WS.org, 2015.
- [121] Diego Esteves, Diego Moussallem, Ciro Baron Neto, Jens Lehmann, Maria Cláudia Cavalcanti, and Julio Cesar Duarte. Interoperable machine learning metadata using mex. In Proceedings of the ISWC 2015 Posters & Demonstrations Track co-located

with the 14th International Semantic Web Conference (ISWC-2015), Bethlehem, PA, USA, October 11, 2015, volume 1486 of CEUR Workshop Proceedings. CEUR-WS.org, 2015.

- [122] Diego Esteves, Diego Moussallem, Ciro Baron Neto, Tommaso Soru, Ricardo Usbeck, Markus Ackermann, and Jens Lehmann. Mex vocabulary: a lightweight interchange format for machine learning experiments. In *Proceedings of the 11th International Conference on Semantic Systems, SEMANTICS 2015, Vienna, Austria, September* 15-17, 2015, pages 169–176. ACM, 2015.
- [123] Marco Fossati, Dimitris Kontokostas, and Jens Lehmann. Unsupervised learning of an extensive and usable taxonomy for dbpedia. In Proceedings of the 11th International Conference on Semantic Systems, SEMANTICS 2015, Vienna, Austria, September 15-17, 2015, pages 177–184. ACM, 2015.
- [124] Mofeed M. Hassan, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Interlinking: Performance assessment of user evaluation vs. supervised learning approaches. In Proceedings of the Workshop on Linked Data on the Web, LDOW 2015, co-located with the 24th International World Wide Web Conference (WWW 2015), Florence, Italy, May 19th, 2015, volume 1409 of CEUR Workshop Proceedings. CEUR-WS.org, 2015.
- [125] Magnus Knuth, Jens Lehmann, Dimitris Kontokostas, Thomas Steiner, and Harald Sack. The dbpedia events dataset. In Proceedings of the ISWC 2015 Posters & Demonstrations Track co-located with the 14th International Semantic Web Conference (ISWC-2015), Bethlehem, PA, USA, October 11, 2015, volume 1486 of CEUR Workshop Proceedings. CEUR-WS.org, 2015.
- [126] Edgard Marx, Tommaso Soru, Diego Esteves, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. An open question answering framework. In Proceedings of the ISWC 2015 Posters & Demonstrations Track co-located with the 14th International Semantic Web Conference (ISWC-2015), Bethlehem, PA, USA, October 11, 2015, volume 1486 of CEUR Workshop Proceedings. CEUR-WS.org, 2015.
- [127] Mohamed Ahmed Sherif, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Automating rdf dataset transformation and enrichment. In *The Semantic Web. Latest Advances and New Domains 12th European Semantic Web Conference, ESWC 2015, Portoroz, Slovenia, May 31 June 4, 2015. Proceedings*, volume 9088 of Lecture Notes in Computer Science, pages 371–387. Springer, 2015.
- [128] Claus Stadler, Natanael Arndt, Michael Martin, and Jens Lehmann. Rdf editing on the web. In Joint Proceedings of the Posters and Demos Track of 11th International Conference on Semantic Systems - SEMANTICS 2015 and 1st Workshop on Data

Science: Methods, Technology and Applications (DSci15) 11th International Conference on Semantic Systems - SEMANTICS 2015, Vienna, Austria, September 15-17, 2015, volume 1481 of CEUR Workshop Proceedings, pages 96–99. CEUR-WS.org, 2015.

- [129] Claus Stadler, Jörg Unbehauen, Patrick Westphal, Mohamed Ahmed Sherif, and Jens Lehmann. Simplified rdb2rdf mapping. In Proceedings of the Workshop on Linked Data on the Web, LDOW 2015, co-located with the 24th International World Wide Web Conference (WWW 2015), Florence, Italy, May 19th, 2015, volume 1409 of CEUR Workshop Proceedings. CEUR-WS.org, 2015.
- [130] Gaurav Vaidya, Dimitris Kontokostas, Magnus Knuth, Jens Lehmann, and Sebastian Hellmann. Dbpedia commons: Structured multimedia metadata from the wikimedia commons. In The Semantic Web - ISWC 2015 - 14th International Semantic Web Conference, Bethlehem, PA, USA, October 11-15, 2015, Proceedings, Part II, volume 9367 of Lecture Notes in Computer Science, pages 281–289. Springer, 2015.
- [131] Simon Bin, Lorenz Bühmann, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Towards sparql-based induction for large-scale rdf data sets. In ECAI 2016 -22nd European Conference on Artificial Intelligence, 29 August-2 September 2016, The Hague, The Netherlands - Including Prestigious Applications of Artificial Intelligence (PAIS 2016), volume 285 of Frontiers in Artificial Intelligence and Applications, pages 1551–1552. IOS Press, 2016.
- [132] Anastasia Dimou, Dimitris Kontokostas, Markus Freudenberg, Ruben Verborgh, Jens Lehmann, Erik Mannens, and Sebastian Hellmann. Dbpedia mappings quality assessment. In Proceedings of the ISWC 2016 Posters & Demonstrations Track co-located with 15th International Semantic Web Conference (ISWC 2016), Kobe, Japan, October 19, 2016, volume 1690 of CEUR Workshop Proceedings. CEUR-WS.org, 2016.
- [133] Mohnish Dubey, Sourish Dasgupta, Ankit Sharma, Konrad Höffner, and Jens Lehmann. Asknow: A framework for natural language query formalization in sparql. In The Semantic Web. Latest Advances and New Domains - 13th International Conference, ESWC 2016, Heraklion, Crete, Greece, May 29 - June 2, 2016, Proceedings, volume 9678 of Lecture Notes in Computer Science, pages 300–316. Springer, 2016.
- [134] Ivan Ermilov, Jens Lehmann, Michael Martin, and Sören Auer. Lodstats: The data web census dataset. In *The Semantic Web - ISWC 2016 - 15th International Semantic Web Conference, Kobe, Japan, October 17-21, 2016, Proceedings, Part II*, volume 9982 of *Lecture Notes in Computer Science*, pages 38–46, 2016.

- [135] Diego Esteves, Pablo N. Mendes, Diego Moussallem, Julio Cesar Duarte, Amrapali Zaveri, and Jens Lehmann. Mex interfaces: Automating machine learning metadata generation. In Proceedings of the 12th International Conference on Semantic Systems, SEMANTICS 2016, Leipzig, Germany, September 12-15, 2016, pages 17–24. ACM, 2016.
- [136] Konrad Höffner, Jens Lehmann, and Ricardo Usbeck. Cubeqa question answering on rdf data cubes. In The Semantic Web - ISWC 2016 - 15th International Semantic Web Conference, Kobe, Japan, October 17-21, 2016, Proceedings, Part I, volume 9981 of Lecture Notes in Computer Science, pages 325–340, 2016.
- [137] Dimitris Kontokostas, Christian Mader, Christian Dirschl, Katja Eck, Michael Leuthold, Jens Lehmann, and Sebastian Hellmann. Semantically enhanced quality assurance in the jurion business use case. In *The Semantic Web. Latest Advances* and New Domains - 13th International Conference, ESWC 2016, Heraklion, Crete, Greece, May 29 - June 2, 2016, Proceedings, volume 9678 of Lecture Notes in Computer Science, pages 661–676. Springer, 2016.
- [138] Edgard Marx, Konrad Höffner, Saeedeh Shekarpour, Axel-Cyrille Ngonga Ngomo, Jens Lehmann, and Sören Auer. Exploring term networks for semantic search over rdf knowledge graphs. In Metadata and Semantics Research - 10th International Conference, MTSR 2016, Göttingen, Germany, November 22-25, 2016, Proceedings, volume 672 of Communications in Computer and Information Science, pages 249–261, 2016.
- [139] Edgard Marx, Amrapali Zaveri, Mofeed Mohammed, Sandro Rautenberg, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, and Gong Cheng. Dbtrends: Publishing and benchmarking rdf ranking functions. In Proceedings of the 2nd International Workshop on Summarizing and Presenting Entities and Ontologies (SumPre 2016) co-located with the 13th Extended Semantic Web Conference (ESWC 2016), Anissaras, Greece, May 30, 2016, volume 1605 of CEUR Workshop Proceedings. CEUR-WS.org, 2016.
- [140] Giuseppe Rizzo, Nicola Fanizzi, Jens Lehmann, and Lorenz Bühmann. Integrating new refinement operators in terminological decision trees learning. In Knowledge Engineering and Knowledge Management - 20th International Conference, EKAW 2016, Bologna, Italy, November 19-23, 2016, Proceedings, volume 10024 of Lecture Notes in Computer Science, pages 511–526, 2016.
- [141] Mohamed Ahmed Sherif, Mofeed M. Hassan, Tommaso Soru, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Lion's den: feeding the linklion. In Proceedings of the 11th International Workshop on Ontology Matching co-located with the 15th International Semantic Web Conference (ISWC 2016), Kobe, Japan, October 18,

2016, volume 1766 of *CEUR Workshop Proceedings*, pages 235–236. CEUR-WS.org, 2016.

- [142] Umair ul Hassan, Amrapali Zaveri, Edgard Marx, Edward Curry, and Jens Lehmann. Acryliq: Leveraging dbpedia for adaptive crowdsourcing in linked data quality assessment. In Knowledge Engineering and Knowledge Management - 20th International Conference, EKAW 2016, Bologna, Italy, November 19-23, 2016, Proceedings, volume 10024 of Lecture Notes in Computer Science, pages 681–696, 2016.
- [143] Sören Auer, Simon Scerri, Aad Versteden, Erika Pauwels, Angelos Charalambidis, Stasinos Konstantopoulos, Jens Lehmann, Hajira Jabeen, Ivan Ermilov, Gezim Sejdiu, Andreas Ikonomopoulos, Spyros Andronopoulos, Mandy Vlachogiannis, Charalambos Pappas, Athanasios Davettas, Iraklis A. Klampanos, Efstathios Grigoropoulos, Vangelis Karkaletsis, Victor de Boer, Ronald Siebes, Mohamed Nadjib Mami, Sergio Albani, Michele Lazzarini, Paulo Nunes, Emanuele Angiuli, Nikiforos Pittaras, George Giannakopoulos, Giorgos Argyriou, George Stamoulis, George Papadakis, Manolis Koubarakis, Pythagoras Karampiperis, Axel-Cyrille Ngonga Ngomo, and Maria-Esther Vidal. The bigdataeurope platform - supporting the variety dimension of big data. In Web Engineering - 17th International Conference, ICWE 2017, Rome, Italy, June 5-8, 2017, Proceedings, volume 10360 of Lecture Notes in Computer Science, pages 41–59. Springer, 2017.
- [144] Simon Bin, Patrick Westphal, Jens Lehmann, and Axel Ngonga. Implementing scalable structured machine learning for big data in the sake project. In 2017 IEEE International Conference on Big Data, BigData 2017, Boston, MA, USA, December 11-14, 2017, pages 1400–1407. IEEE Computer Society, 2017.
- [145] Felix Conrads, Jens Lehmann, Muhammad Saleem, Mohamed Morsey, and Axel-Cyrille Ngonga Ngomo. Iguana: A generic framework for benchmarking the read-write performance of triple stores. In *The Semantic Web - ISWC 2017 - 16th International Semantic Web Conference, Vienna, Austria, October 21-25, 2017, Proceedings, Part II*, volume 10588 of *Lecture Notes in Computer Science*, pages 48–65. Springer, 2017.
- [146] Felix Conrads, Jens Lehmann, Muhammad Saleem, and Axel-Cyrille Ngonga Ngomo. Benchmarking rdf storage solutions with iguana. In Proceedings of the ISWC 2017 Posters & Demonstrations and Industry Tracks co-located with 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 23rd - to - 25th, 2017, volume 1963 of CEUR Workshop Proceedings. CEUR-WS.org, 2017.
- [147] 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 the ISWC 2017 Posters & Demonstrations and Industry Tracks co-located with 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 23rd - to - 25th, 2017, volume 1963 of CEUR Workshop Proceedings. CEUR-WS.org, 2017.

- [148] Ivan Ermilov, Axel-Cyrille Ngonga Ngomo, Aad Versteden, Hajira Jabeen, Gezim Sejdiu, Giorgos Argyriou, Luigi Selmi, Jürgen Jakobitsch, and Jens Lehmann. Managing lifecycle of big data applications. In Knowledge Engineering and Semantic Web - 8th International Conference, KESW 2017, Szczecin, Poland, November 8-10, 2017, Proceedings, volume 786 of Communications in Computer and Information Science, pages 263–276. Springer, 2017.
- [149] Diego Esteves, Diego Moussallem, Tommaso Soru, Ciro Baron Neto, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, and Julio Cesar Duarte. Log4mex: a library to export machine learning experiments. In Proceedings of the International Conference on Web Intelligence, Leipzig, Germany, August 23-26, 2017, pages 139–145. ACM, 2017.
- [150] Diego Esteves, Rafael Peres, Jens Lehmann, and Giulio Napolitano. Named entity recognition in twitter using images and text. In Current Trends in Web Engineering - ICWE 2017 International Workshops, Liquid Multi-Device Software and EnWoT, practi-O-web, NLPIT, SoWeMine, Rome, Italy, June 5-8, 2017, Revised Selected Papers, volume 10544 of Lecture Notes in Computer Science, pages 191–199. Springer, 2017.
- [151] Hajira Jabeen, Phil Archer, Simon Scerri, Aad Versteden, Ivan Ermilov, Giannis Mouchakis, Jens Lehmann, and Sören Auer. Big data europe. In Proceedings of the Workshops of the EDBT/ICDT 2017 Joint Conference (EDBT/ICDT 2017), Venice, Italy, March 21-24, 2017, volume 1810 of CEUR Workshop Proceedings. CEUR-WS.org, 2017.
- [152] Jens Lehmann, Sören Auer, Sarven Capadisli, Krzysztof Janowicz, Christian Bizer, Tom Heath, Aidan Hogan, and Tim Berners-Lee. Ldow2017: 10th workshop on linked data on the web. In Proceedings of the 26th International Conference on World Wide Web Companion, Perth, Australia, April 3-7, 2017, pages 1679–1680. ACM, 2017.
- [153] Jens Lehmann, Gezim Sejdiu, Lorenz Bühmann, Patrick Westphal, Claus Stadler, Ivan Ermilov, Simon Bin, Nilesh Chakraborty, Muhammad Saleem, Axel-Cyrille Ngonga Ngomo, and Hajira Jabeen. Distributed semantic analytics using the sansa stack. In The Semantic Web - ISWC 2017 - 16th International Semantic Web Conference, Vienna, Austria, October 21-25, 2017, Proceedings, Part II, volume 10588 of Lecture Notes in Computer Science, pages 147–155. Springer, 2017.

- [154] Denis Lukovnikov, Asja Fischer, Jens Lehmann, and Sören Auer. Neural networkbased question answering over knowledge graphs on word and character level. In Proceedings of the 26th International Conference on World Wide Web, WWW 2017, Perth, Australia, April 3-7, 2017, pages 1211–1220. ACM, 2017.
- [155] Gaurav Maheshwari, Mohnish Dubey, Priyansh Trivedi, and Jens Lehmann. How to revert question answering on knowledge graphs. In Proceedings of the ISWC 2017 Posters & Demonstrations and Industry Tracks co-located with 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 23rd - to - 25th, 2017, volume 1963 of CEUR Workshop Proceedings. CEUR-WS.org, 2017.
- [156] Gaurav Maheshwari, Priyansh Trivedi, Harshita Sahijwani, Kunal Jha, Sourish Dasgupta, and Jens Lehmann. Simdoc: Topic sequence alignment based document similarity framework. In Proceedings of the Knowledge Capture Conference, K-CAP 2017, Austin, TX, USA, December 4-6, 2017, pages 16:1–16:8. ACM, 2017.
- [157] Wouter Maroy, Anastasia Dimou, Dimitris Kontokostas, Ben De Meester, Ruben Verborgh, Jens Lehmann, Erik Mannens, and Sebastian Hellmann. Sustainable linked data generation: The case of dbpedia. In *The Semantic Web ISWC 2017* 16th International Semantic Web Conference, Vienna, Austria, October 21-25, 2017, Proceedings, Part II, volume 10588 of Lecture Notes in Computer Science, pages 297–313. Springer, 2017.
- [158] Edgard Marx, Saeedeh Shekarpour, Tommaso Soru, Adrian M. P. Brasoveanu, Muhammad Saleem, Ciro Baron, Albert Weichselbraun, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, and Sören Auer. Torpedo: Improving the state-of-the-art rdf dataset slicing. In 11th IEEE International Conference on Semantic Computing, ICSC 2017, San Diego, CA, USA, January 30 - February 1, 2017, pages 149–156. IEEE Computer Society, 2017.
- [159] Ben De Meester, Anastasia Dimou, Wouter Maroy, Dimitris Kontokostas, Ruben Verborgh, Jens Lehmann, Erik Mannens, and Sebastian Hellmann. A vocabularyindependent generation framework for dbpedia and beyond. In Proceedings of the ISWC 2017 Posters & Demonstrations and Industry Tracks co-located with 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 23rd - to - 25th, 2017, volume 1963 of CEUR Workshop Proceedings. CEUR-WS.org, 2017.
- [160] Henning Petzka, Claus Stadler, Georgios Katsimpras, Bastian Haarmann, and Jens Lehmann. Benchmarking faceted browsing capabilities of triplestores. In Proceedings of the 13th International Conference on Semantic Systems, SEMANTICS 2017, Amsterdam, The Netherlands, September 11-14, 2017, pages 128–135. ACM, 2017.

- [161] Muhammad Saleem, Claus Stadler, Qaiser Mehmood, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Sqcframework: Sparql query containment benchmark generation framework. In Proceedings of the Knowledge Capture Conference, K-CAP 2017, Austin, TX, USA, December 4-6, 2017, pages 28:1–28:8. ACM, 2017.
- [162] Mohamed Ahmed Sherif, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Wombat - a generalization approach for automatic link discovery. In *The Semantic Web* -14th International Conference, ESWC 2017, Portorož, Slovenia, May 28 - June 1, 2017, Proceedings, Part I, volume 10249 of Lecture Notes in Computer Science, pages 103–119, 2017.
- [163] Claus Stadler and Jens Lehmann. Jpa criteria queries over rdf data. In Joint Proceedings of the 2nd RDF Stream Processing (RSP 2017) and the Querying the Web of Data (QuWeDa 2017) Workshops co-located with 14th ESWC 2017 (ESWC 2017), Portoroz, Slovenia, May 28th - to - 29th, 2017, volume 1870 of CEUR Workshop Proceedings, pages 55–62. CEUR-WS.org, 2017.
- [164] Harsh Thakkar, Yashwant Keswani, Mohnish Dubey, Jens Lehmann, and Sören Auer. Trying not to die benchmarking: Orchestrating rdf and graph data management solution benchmarks using litmus. In Proceedings of the 13th International Conference on Semantic Systems, SEMANTICS 2017, Amsterdam, The Netherlands, September 11-14, 2017, pages 120–127. ACM, 2017.
- [165] Priyansh Trivedi, Gaurav Maheshwari, Mohnish Dubey, and Jens Lehmann. Lcquad: A corpus for complex question answering over knowledge graphs. In The Semantic Web - ISWC 2017 - 16th International Semantic Web Conference, Vienna, Austria, October 21-25, 2017, Proceedings, Part II, volume 10588 of Lecture Notes in Computer Science, pages 210–218. Springer, 2017.
- [166] Debayan Banerjee, Mohnish Dubey, Debanjan Chaudhuri, and Jens Lehmann. Joint entity and relation linking using earl. In Proceedings of the ISWC 2018 Posters & Demonstrations, Industry and Blue Sky Ideas Tracks co-located with 17th International Semantic Web Conference (ISWC 2018), Monterey, USA, October 8th - to - 12th, 2018, volume 2180 of CEUR Workshop Proceedings. CEUR-WS.org, 2018.
- [167] Lorenz Bühmann, Jens Lehmann, Patrick Westphal, and Simon Bin. Dl-learner structured machine learning on semantic web data. In Companion of the The Web Conference 2018 on The Web Conference 2018, WWW 2018, Lyon, France, April 23-27, 2018, pages 467–471. ACM, 2018.
- [168] Debanjan Chaudhuri, Agustinus Kristiadi, Jens Lehmann, and Asja Fischer. Improving response selection in multi-turn dialogue systems by incorporating domain

knowledge. In Proceedings of the 22nd Conference on Computational Natural Language Learning, CoNLL 2018, Brussels, Belgium, October 31 - November 1, 2018, pages 497–507. Association for Computational Linguistics, 2018.

- [169] Diego Collarana, Timm Heuss, Jens Lehmann, Ioanna Lytra, Gaurav Maheshwari, Rostislav Nedelchev, Thorsten Schmidt, and Priyansh Trivedi. A question answering system on regulatory documents. In Legal Knowledge and Information Systems -JURIX 2018: The Thirty-first Annual Conference, Groningen, The Netherlands, 12-14 December 2018, volume 313 of Frontiers in Artificial Intelligence and Applications, pages 41–50. IOS Press, 2018.
- [170] Mohnish Dubey, Debayan Banerjee, Debanjan Chaudhuri, and Jens Lehmann. Earl: Joint entity and relation linking for question answering over knowledge graphs. In The Semantic Web - ISWC 2018 - 17th International Semantic Web Conference, Monterey, CA, USA, October 8-12, 2018, Proceedings, Part I, volume 11136 of Lecture Notes in Computer Science, pages 108–126. Springer, 2018.
- [171] Damien Graux, Gezim Sejdiu, Hajira Jabeen, Jens Lehmann, Danning Sui, Dominik Muhs, and Johannes Pfeffer. Profiting from kitties on ethereum: Leveraging blockchain rdf with sansa. In Proceedings of the Posters and Demos Track of the 14th International Conference on Semantic Systems co-located with the 14th International Conference on Semantic Systems (SEMANTiCS 2018), Vienna, Austria, September 10-13, 2018, volume 2198 of CEUR Workshop Proceedings. CEUR-WS.org, 2018.
- [172] Hajira Jabeen, Rajjat Dadwal, Gezim Sejdiu, and Jens Lehmann. Divided we stand out! forging cohorts for numeric outlier detection in large scale knowledge graphs (conod). In Knowledge Engineering and Knowledge Management - 21st International Conference, EKAW 2018, Nancy, France, November 12-16, 2018, Proceedings, volume 11313 of Lecture Notes in Computer Science, pages 534–548. Springer, 2018.
- [173] Najmeh Mousavi Nejad, Simon Scerri, and Jens Lehmann. Knight: Mapping privacy policies to gdpr. In Knowledge Engineering and Knowledge Management -21st International Conference, EKAW 2018, Nancy, France, November 12-16, 2018, Proceedings, volume 11313 of Lecture Notes in Computer Science, pages 258–272. Springer, 2018.
- [174] Muhammad Saleem, Qaiser Mehmood, Claus Stadler, Jens Lehmann, and Axel-Cyrille Ngonga Ngomo. Generating sparql query containment benchmarks using the sqcframework. In Proceedings of the ISWC 2018 Posters & Demonstrations, Industry and Blue Sky Ideas Tracks co-located with 17th International Semantic

Web Conference (ISWC 2018), Monterey, USA, October 8th - to - 12th, 2018, volume 2180 of CEUR Workshop Proceedings. CEUR-WS.org, 2018.

- [175] Gezim Sejdiu, Ivan Ermilov, Jens Lehmann, and Mohamed Nadjib Mami. Distlodstats: Distributed computation of rdf dataset statistics. In *The Semantic Web - ISWC 2018 - 17th International Semantic Web Conference, Monterey, CA, USA, October 8-12, 2018, Proceedings, Part II*, volume 11137 of Lecture Notes in Computer Science, pages 206–222. Springer, 2018.
- [176] Gezim Sejdiu, Ivan Ermilov, Mohamed Nadjib Mami, and Jens Lehmann. Statisfy me: What are my stats? In Proceedings of the ISWC 2018 Posters & Demonstrations, Industry and Blue Sky Ideas Tracks co-located with 17th International Semantic Web Conference (ISWC 2018), Monterey, USA, October 8th - to - 12th, 2018, volume 2180 of CEUR Workshop Proceedings. CEUR-WS.org, 2018.
- [177] Kuldeep Singh, Arun Sethupat Radhakrishna, Andreas Both, Saeedeh Shekarpour, Ioanna Lytra, Ricardo Usbeck, Akhilesh Vyas, Akmal Khikmatullaev, Dharmen Punjani, Christoph Lange, Maria-Esther Vidal, Jens Lehmann, and Sören Auer. Why reinvent the wheel: Let's build question answering systems together. In Proceedings of the 2018 World Wide Web Conference on World Wide Web, WWW 2018, Lyon, France, April 23-27, 2018, pages 1247–1256. ACM, 2018.
- [178] Steffen Staab, Jens Lehmann, and Ruben Verborgh. Structured knowledge on the web 7.0. In Companion of the The Web Conference 2018 on The Web Conference 2018, WWW 2018, Lyon, France, April 23-27, 2018, pages 885–886. ACM, 2018.
- [179] Claus Stadler, Muhammad Saleem, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Efficiently pinpointing sparql query containments. In Web Engineering - 18th International Conference, ICWE 2018, Cáceres, Spain, June 5-8, 2018, Proceedings, volume 10845 of Lecture Notes in Computer Science, pages 210–224. Springer, 2018.
- [180] Harsh Thakkar, Dharmen Punjani, Jens Lehmann, and Sören Auer. Two for one: querying property graph databases using sparql via gremlinator. In Proceedings of the 1st ACM SIGMOD Joint International Workshop on Graph Data Management Experiences & Systems (GRADES) and Network Data Analytics (NDA), Houston, TX, USA, June 10, 2018, pages 12:1–12:5. ACM, 2018.
- [181] Patrick Westphal, Javier D. Fernández, Sabrina Kirrane, and Jens Lehmann. Spirit: A semantic transparency and compliance stack. In Proceedings of the Posters and Demos Track of the 14th International Conference on Semantic Systems colocated with the 14th International Conference on Semantic Systems (SEMANTiCS 2018), Vienna, Austria, September 10-13, 2018, volume 2198 of CEUR Workshop Proceedings. CEUR-WS.org, 2018.

- [182] Hamid Zafar, Giulio Napolitano, and Jens Lehmann. Deep query ranking for question answering over knowledge bases. In Machine Learning and Knowledge Discovery in Databases - European Conference, ECML PKDD 2018, Dublin, Ireland, September 10-14, 2018, Proceedings, Part III, volume 11053 of Lecture Notes in Computer Science, pages 635–638. Springer, 2018.
- [183] Hamid Zafar, Giulio Napolitano, and Jens Lehmann. Formal query generation for question answering over knowledge bases. In *The Semantic Web - 15th International Conference, ESWC 2018, Heraklion, Crete, Greece, June 3-7, 2018, Proceedings*, volume 10843 of *Lecture Notes in Computer Science*, pages 714–728. Springer, 2018.
- [184] Abdelrahman Abdelkawi, Hamid Zafar, Maria Maleshkova, and Jens Lehmann. Complex query augmentation for question answering over knowledge graphs. In On the Move to Meaningful Internet Systems: OTM 2019 Conferences - Confederated International Conferences: CoopIS, ODBASE, C&TC 2019, Rhodes, Greece, October 21-25, 2019, Proceedings, volume 11877 of Lecture Notes in Computer Science, pages 571–587. Springer, 2019.
- [185] Mehdi Ali, Charles Tapley Hoyt, Daniel Domingo-Fernández, and Jens Lehmann. Predicting missing links using pykeen. In Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019, volume 2456 of CEUR Workshop Proceedings, pages 245–248. CEUR-WS.org, 2019.
- [186] Mehdi Ali, Hajira Jabeen, Charles Tapley Hoyt, and Jens Lehmann. The keen universe an ecosystem for knowledge graph embeddings with a focus on reproducibility and transferability. In *The Semantic Web ISWC 2019 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part II*, volume 11779 of *Lecture Notes in Computer Science*, pages 3–18. Springer, 2019.
- [187] Mehdi Ali, Sahar Vahdati, Shruti Singh, Sourish Dasgupta, and Jens Lehmann. Improving access to science for social good. In Machine Learning and Knowledge Discovery in Databases - International Workshops of ECML PKDD 2019, Würzburg, Germany, September 16-20, 2019, Proceedings, Part I, volume 1167 of Communications in Computer and Information Science, pages 658–673. Springer, 2019.
- [188] Spiros Athanasiou, Giorgos Giannopoulos, Damien Graux, Nikos Karagiannakis, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, Kostas Patroumpas, Mohamed Ahmed Sherif, and Dimitrios Skoutas. Big poi data integration with linked data technologies. In Advances in Database Technology - 22nd International Conference on Extending

Database Technology, EDBT 2019, Lisbon, Portugal, March 26-29, 2019, pages 477–488. OpenProceedings.org, 2019.

- [189] Debanjan Chaudhuri, Md. Rashad Al Hasan Rony, Simon Jordan, and Jens Lehmann. Using a kg-copy network for non-goal oriented dialogues. In The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part I, volume 11778 of Lecture Notes in Computer Science, pages 93–109. Springer, 2019.
- [190] Piyush Chawla, Diego Esteves, Karthik Pujar, and Jens Lehmann. Simplelstm: A deep-learning approach to simple-claims classification. In Progress in Artificial Intelligence, 19th EPIA Conference on Artificial Intelligence, EPIA 2019, Vila Real, Portugal, September 3-6, 2019, Proceedings, Part II, volume 11805 of Lecture Notes in Computer Science, pages 244–255. Springer, 2019.
- [191] Rajjat Dadwal, Damien Graux, Gezim Sejdiu, Hajira Jabeen, and Jens Lehmann. Clustering pipelines of large rdf poi data. In *The Semantic Web: ESWC 2019* Satellite Events - ESWC 2019 Satellite Events, Portorož, Slovenia, June 2-6, 2019, Revised Selected Papers, volume 11762 of Lecture Notes in Computer Science, pages 24–27. Springer, 2019.
- [192] Mohnish Dubey, Debayan Banerjee, Abdelrahman Abdelkawi, and Jens Lehmann. Lc-quad 2.0: A large dataset for complex question answering over wikidata and dbpedia. In The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part II, volume 11779 of Lecture Notes in Computer Science, pages 69–78. Springer, 2019.
- [193] Johannes Frey, Marvin Hofer, Daniel Obraczka, Jens Lehmann, and Sebastian Hellmann. Dbpedia flexifusion the best of wikipedia textgreater wikidata textgreater your data. In The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part II, volume 11779 of Lecture Notes in Computer Science, pages 96–112. Springer, 2019.
- [194] Shimaa Ibrahim, Said Fathalla, Hamed Shariat Yazdi, Jens Lehmann, and Hajira Jabeen. From monolingual to multilingual ontologies: The role of cross-lingual ontology enrichment. In Semantic Systems. The Power of AI and Knowledge Graphs - 15th International Conference, SEMANTICS 2019, Karlsruhe, Germany, September 9-12, 2019, Proceedings, volume 11702 of Lecture Notes in Computer Science, pages 215–230. Springer, 2019.
- [195] Shimaa Ibrahim, Said Fathalla, Hamed Shariat Yazdi, Jens Lehmann, and Hajira Jabeen. Oecm: A cross-lingual approach for ontology enrichment. In *The Seman*tic Web: ESWC 2019 Satellite Events - ESWC 2019 Satellite Events, Portorož,

Slovenia, June 2-6, 2019, Revised Selected Papers, volume 11762 of Lecture Notes in Computer Science, pages 100–104. Springer, 2019.

- [196] Hajira Jabeen, Nargis Tahara, and Jens Lehmann. Evochef: Show me what to cook! artificial evolution of culinary arts. In Computational Intelligence in Music, Sound, Art and Design - 8th International Conference, EvoMUSART 2019, Held as Part of EvoStar 2019, Leipzig, Germany, April 24-26, 2019, Proceedings, volume 11453 of Lecture Notes in Computer Science, pages 156–172. Springer, 2019.
- [197] Firas Kassawat, Debanjan Chaudhuri, and Jens Lehmann. Incorporating joint embeddings into goal-oriented dialogues with multi-task learning. In *The Semantic* Web - 16th International Conference, ESWC 2019, Portorož, Slovenia, June 2-6, 2019, Proceedings, volume 11503 of Lecture Notes in Computer Science, pages 225–239. Springer, 2019.
- [198] Agustinus Kristiadi, Mohammad Asif Khan, Denis Lukovnikov, Jens Lehmann, and Asja Fischer. Incorporating literals into knowledge graph embeddings. In The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part I, volume 11778 of Lecture Notes in Computer Science, pages 347–363. Springer, 2019.
- [199] Denis Lukovnikov, Asja Fischer, and Jens Lehmann. Pretrained transformers for simple question answering over knowledge graphs. In *The Semantic Web* - *ISWC 2019 - 18th International Semantic Web Conference, Auckland, New* Zealand, October 26-30, 2019, Proceedings, Part I, volume 11778 of Lecture Notes in Computer Science, pages 470–486. Springer, 2019.
- [200] Gaurav Maheshwari, Priyansh Trivedi, Denis Lukovnikov, Nilesh Chakraborty, Asja Fischer, and Jens Lehmann. Learning to rank query graphs for complex question answering over knowledge graphs. In *The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30,* 2019, Proceedings, Part I, volume 11778 of Lecture Notes in Computer Science, pages 487–504. Springer, 2019.
- [201] Mohamed Nadjib Mami, Damien Graux, Simon Scerri, Hajira Jabeen, Sören Auer, and Jens Lehmann. How to feed the squerall with rdf and other data nuts? In Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019, volume 2456 of CEUR Workshop Proceedings, pages 293–296. CEUR-WS.org, 2019.
- [202] Mohamed Nadjib Mami, Damien Graux, Simon Scerri, Hajira Jabeen, Sören Auer, and Jens Lehmann. Squerall: Virtual ontology-based access to heterogeneous and

large data sources. In The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part II, volume 11779 of Lecture Notes in Computer Science, pages 229–245. Springer, 2019.

- [203] Mohamed Nadjib Mami, Damien Graux, Simon Scerri, Hajira Jabeen, Sören Auer, and Jens Lehmann. Uniform access to multiform data lakes using semantic technologies. In Proceedings of the 21st International Conference on Information Integration and Web-based Applications & Services, iiWAS 2019, Munich, Germany, December 2-4, 2019, pages 313–322. ACM, 2019.
- [204] Fahad Maqbool, Saad Razzaq, Jens Lehmann, and Hajira Jabeen. Scalable distributed genetic algorithm using apache spark (s-ga). In Intelligent Computing Theories and Application - 15th International Conference, ICIC 2019, Nanchang, China, August 3-6, 2019, Proceedings, Part I, volume 11643 of Lecture Notes in Computer Science, pages 424–435. Springer, 2019.
- [205] Qaiser Mehmood, Abhishek Nadgeri, Muhammad Saleem, Kuldeep Singh, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Microbenchmarks for question answering systems using qaldgen. In Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019, volume 2456 of CEUR Workshop Proceedings, pages 261–264. CEUR-WS.org, 2019.
- [206] Sattar Rahimbayli, Jens Lehmann, and Thomas M. Deserno. Pay for performance in electronic data capture for clinical trials and medical registries. In *ICT for Health Science Research - Proceedings of the EFMI 2019 Special Topic Conference* - 7-10 April 2019, Hanover, Germany, volume 258 of Studies in Health Technology and Informatics, pages 221–225. IOS Press, 2019.
- [207] Anisa Rula, Matteo Palmonari, Simone Rubinacci, Axel-Cyrille Ngonga Ngomo, Jens Lehmann, Andrea Maurino, and Diego Esteves. Tisco: Temporal scoping of facts. In Companion of The 2019 World Wide Web Conference, WWW 2019, San Francisco, CA, USA, May 13-17, 2019, pages 959–960. ACM, 2019.
- [208] Afshin Sadeghi and Jens Lehmann. Linking physicians to medical research results via knowledge graph embeddings and twitter. In Machine Learning and Knowledge Discovery in Databases - International Workshops of ECML PKDD 2019, Würzburg, Germany, September 16-20, 2019, Proceedings, Part I, volume 1167 of Communications in Computer and Information Science, pages 622–630. Springer, 2019.

- [209] Ahmad Sakor, Isaiah Onando Mulang, Kuldeep Singh, Saeedeh Shekarpour, Maria-Esther Vidal, Jens Lehmann, and Sören Auer. Old is gold: Linguistic driven approach for entity and relation linking of short text. In Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, NAACL-HLT 2019, Minneapolis, MN, USA, June 2-7, 2019, Volume 1 (Long and Short Papers), pages 2336–2346. Association for Computational Linguistics, 2019.
- [210] Gezim Sejdiu, Damien Graux, Imran Khan, Ioanna Lytra, Hajira Jabeen, and Jens Lehmann. Towards a scalable semantic-based distributed approach for sparql query evaluation. In Semantic Systems. The Power of AI and Knowledge Graphs - 15th International Conference, SEMANTICS 2019, Karlsruhe, Germany, September 9-12, 2019, Proceedings, volume 11702 of Lecture Notes in Computer Science, pages 295–309. Springer, 2019.
- [211] Gezim Sejdiu, Anisa Rula, Jens Lehmann, and Hajira Jabeen. A scalable framework for quality assessment of rdf datasets. In *The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30,* 2019, Proceedings, Part II, volume 11779 of Lecture Notes in Computer Science, pages 261–276. Springer, 2019.
- [212] Kuldeep Singh, Muhammad Saleem, Abhishek Nadgeri, Felix Conrads, Jeff Z. Pan, Axel-Cyrille Ngonga Ngomo, and Jens Lehmann. Qaldgen: Towards microbenchmarking of question answering systems over knowledge graphs. In *The Semantic* Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part II, volume 11779 of Lecture Notes in Computer Science, pages 277–292. Springer, 2019.
- [213] Claus Stadler, Gezim Sejdiu, Damien Graux, and Jens Lehmann. Querying largescale rdf datasets using the sansa framework. In Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) colocated with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019, volume 2456 of CEUR Workshop Proceedings, pages 285–288. CEUR-WS.org, 2019.
- [214] Claus Stadler, Gezim Sejdiu, Damien Graux, and Jens Lehmann. Sparklify: A scalable software component for efficient evaluation of sparql queries over distributed rdf datasets. In The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part II, volume 11779 of Lecture Notes in Computer Science, pages 293–308. Springer, 2019.

- [215] Danning Sui, Gezim Sejdiu, Damien Graux, and Jens Lehmann. The hubs and authorities transaction network analysis using the sansa framework. In Proceedings of the Posters and Demo Track of the 15th International Conference on Semantic Systems co-located with 15th International Conference on Semantic Systems (SE-MANTiCS 2019), Karlsruhe, Germany, September 9th - to - 12th, 2019, volume 2451 of CEUR Workshop Proceedings. CEUR-WS.org, 2019.
- [216] Mirza Mohtashim Alam, Hajira Jabeen, Mehdi Ali, Karishma Mohiuddin, and Jens Lehmann. Affinity dependent negative sampling for knowledge graph embeddings. In Proceedings of the Workshop on Deep Learning for Knowledge Graphs (DL4KG2020) co-located with the 17th Extended Semantic Web Conference 2020 (ESWC 2020), Heraklion, Greece, June 02, 2020 - moved online, volume 2635 of CEUR Workshop Proceedings. CEUR-WS.org, 2020.
- [217] Mirza Mohtashim Alam, Mojtaba Nayyeri, Chengjin Xu, Md. Rashad Al Hasan Rony, Hamed Shariat Yazdi, Afshin Sadeghi, and Jens Lehmann. The effect of rule injectionin a leakage free dataset. In Proceedings of the International Workshop on Knowledge Representation and Representation Learning co-located with the 24th European Conference on Artificial Intelligence (ECAI 2020), Virtual Event, September, 2020, volume 3020 of CEUR Workshop Proceedings, pages 28–35. CEUR-WS.org, 2020.
- [218] Jason Armitage, Endri Kacupaj, Golsa Tahmasebzadeh, Swati, Maria Maleshkova, Ralph Ewerth, and Jens Lehmann. Mlm: A benchmark dataset for multitask learning with multiple languages and modalities. In CIKM '20: The 29th ACM International Conference on Information and Knowledge Management, Virtual Event, Ireland, October 19-23, 2020, pages 2967–2974. ACM, 2020.
- [219] Jason Armitage, Shramana Thakur, Rishi Tripathi, Maria Maleshkova, and Jens Lehmann. Training multimodal systems for classification with multiple objectives. In Proceedings of the 1st International Workshop on Cross-lingual Event-centric Open Analytics co-located with the 17th Extended Semantic Web Conference (ESWC 2020), Heraklion, Crete, Greece, June 3, 2020 (online event due to COVID-19 outbreak), volume 2611 of CEUR Workshop Proceedings, pages 57–71. CEUR-WS.org, 2020.
- [220] Debayan Banerjee, Debanjan Chaudhuri, Mohnish Dubey, and Jens Lehmann. Pnel: Pointer network based end-to-end entity linking over knowledge graphs. In The Semantic Web - ISWC 2020 - 19th International Semantic Web Conference, Athens, Greece, November 2-6, 2020, Proceedings, Part I, volume 12506 of Lecture Notes in Computer Science, pages 21–38. Springer, 2020.

- [221] Minh Triet Chau, Diego Esteves, and Jens Lehmann. A neural-based model to predict the future natural gas market price through open-domain event extraction. In Proceedings of the 1st International Workshop on Cross-lingual Event-centric Open Analytics co-located with the 17th Extended Semantic Web Conference (ESWC 2020), Heraklion, Crete, Greece, June 3, 2020 (online event due to COVID-19 outbreak), volume 2611 of CEUR Workshop Proceedings, pages 17–31. CEUR-WS.org, 2020.
- [222] Mikhail Galkin, Priyansh Trivedi, Gaurav Maheshwari, Ricardo Usbeck, and Jens Lehmann. Message passing for hyper-relational knowledge graphs. In Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing, EMNLP 2020, Online, November 16-20, 2020, pages 7346–7359. Association for Computational Linguistics, 2020.
- [223] Damien Graux, Gezim Sejdiu, Claus Stadler, Giulio Napolitano, and Jens Lehmann. Minds: A translator to embed mathematical expressions inside sparql queries. In Semantic Systems. In the Era of Knowledge Graphs - 16th International Conference on Semantic Systems, SEMANTICS 2020, Amsterdam, The Netherlands, September 7-10, 2020, Proceedings, volume 12378 of Lecture Notes in Computer Science, pages 104–117. Springer, 2020.
- [224] Shimaa Ibrahim, Said Fathalla, Jens Lehmann, and Hajira Jabeen. Multilingual ontology merging using cross-lingual matching. In IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology, WI/IAT 2020, Melbourne, Australia, December 14-17, 2020, pages 113–120. IEEE, 2020.
- [225] Hajira Jabeen, Eskender Haziiev, Gezim Sejdiu, and Jens Lehmann. Dise: A distributed in-memory sparql processing engine over tensor data. In *IEEE 14th International Conference on Semantic Computing*, *ICSC 2020, San Diego, CA*, *USA, February 3-5, 2020*, pages 400–407. IEEE, 2020.
- [226] Hajira Jabeen, Jonas Weinz, and Jens Lehmann. Autochef: Automated generation of cooking recipes. In *IEEE Congress on Evolutionary Computation*, CEC 2020, Glasgow, United Kingdom, July 19-24, 2020, pages 1–7. IEEE, 2020.
- [227] Endri Kacupaj, Hamid Zafar, Jens Lehmann, and Maria Maleshkova. Vquanda: Verbalization question answering dataset. In *The Semantic Web - 17th International Conference, ESWC 2020, Heraklion, Crete, Greece, May 31-June 4, 2020, Proceedings*, volume 12123 of *Lecture Notes in Computer Science*, pages 531–547. Springer, 2020.
- [228] Heba Mohamed, Said Fathalla, Jens Lehmann, and Hajira Jabeen. A distributed approach for parsing large-scale owl datasets. In *Proceedings of the 12th International*

Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2020, Volume 2: KEOD, Budapest, Hungary, November 2-4, 2020, pages 227–234. SCITEPRESS, 2020.

- [229] Heba Mohamed, Said Fathalla, Jens Lehmann, and Hajira Jabeen. Owlstats: Distributed computation of owl dataset statistics. In IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology, WI/IAT 2020, Melbourne, Australia, December 14-17, 2020, pages 381–386. IEEE, 2020.
- [230] Isaiah Onando Mulang, Kuldeep Singh, Chaitali Prabhu, Abhishek Nadgeri, Johannes Hoffart, and Jens Lehmann. Evaluating the impact of knowledge graph context on entity disambiguation models. In CIKM '20: The 29th ACM International Conference on Information and Knowledge Management, Virtual Event, Ireland, October 19-23, 2020, pages 2157–2160. ACM, 2020.
- [231] Fathoni A. Musyaffa, Jens Lehmann, and Hajira Jabeen. Cross-administration comparative analysis of open fiscal data. In *ICEGOV 2020: 13th International Conference on Theory and Practice of Electronic Governance, Athens, Greece,* 23-25 September, 2020, pages 459–468. ACM, 2020.
- [232] Mojtaba Nayyeri, Sahar Vahdati, Xiaotian Zhou, Hamed Shariat Yazdi, and Jens Lehmann. Embedding-based recommendations on scholarly knowledge graphs. In The Semantic Web - 17th International Conference, ESWC 2020, Heraklion, Crete, Greece, May 31-June 4, 2020, Proceedings, volume 12123 of Lecture Notes in Computer Science, pages 255–270. Springer, 2020.
- [233] Mojtaba Nayyeri, Chengjin Xu, Sahar Vahdati, Nadezhda Vassilyeva, Emanuel Sallinger, Hamed Shariat Yazdi, and Jens Lehmann. Fantastic knowledge graph embeddings and how to find the right space for them. In *The Semantic Web - ISWC* 2020 - 19th International Semantic Web Conference, Athens, Greece, November 2-6, 2020, Proceedings, Part I, volume 12506 of Lecture Notes in Computer Science, pages 438–455. Springer, 2020.
- [234] Mojtaba Nayyeri, Xiaotian Zhou, Sahar Vahdati, Reza Izanloo, Hamed Shariat Yazdi, and Jens Lehmann. Let the margin slide for knowledge graph embeddings via a correntropy objective function. In 2020 International Joint Conference on Neural Networks, IJCNN 2020, Glasgow, United Kingdom, July 19-24, 2020, pages 1–9. IEEE, 2020.
- [235] Rostislav Nedelchev, Jens Lehmann, and Ricardo Usbeck. Language model transformers as evaluators for open-domain dialogues. In Proceedings of the 28th International Conference on Computational Linguistics, COLING 2020, Barcelona, Spain (Online), December 8-13, 2020, pages 6797–6808. International Committee on Computational Linguistics, 2020.

- [236] Rostislav Nedelchev, Ricardo Usbeck, and Jens Lehmann. Treating dialogue quality evaluation as an anomaly detection problem. In *Proceedings of The 12th Language Resources and Evaluation Conference, LREC 2020, Marseille, France, May 11-16,* 2020, pages 508–512. European Language Resources Association, 2020.
- [237] Samin Payrosangari, Afshin Sadeghi, Damien Graux, and Jens Lehmann. Metahyperband: Hyperparameter optimization with meta-learning and coarse-to-fine. In Intelligent Data Engineering and Automated Learning - IDEAL 2020 - 21st International Conference, Guimaraes, Portugal, November 4-6, 2020, Proceedings, Part II, volume 12490 of Lecture Notes in Computer Science, pages 335–347. Springer, 2020.
- [238] Ariam Rivas, Irlán Grangel-González, Diego Collarana, Jens Lehmann, and Maria-Esther Vidal. Unveiling relations in the industry 4.0 standards landscape based on knowledge graph embeddings. In *Database and Expert Systems Applications -*31st International Conference, DEXA 2020, Bratislava, Slovakia, September 14-17, 2020, Proceedings, Part II, volume 12392 of Lecture Notes in Computer Science, pages 179–194. Springer, 2020.
- [239] Jewgeni Rose and Jens Lehmann. Casqad a new dataset for context-aware spatial question answering. In The Semantic Web - ISWC 2020 - 19th International Semantic Web Conference, Athens, Greece, November 2-6, 2020, Proceedings, Part II, volume 12507 of Lecture Notes in Computer Science, pages 3–17. Springer, 2020.
- [240] Afshin Sadeghi, Damien Graux, Hamed Shariat Yazdi, and Jens Lehmann. Mde: Multiple distance embeddings for link prediction in knowledge graphs. In ECAI 2020 - 24th European Conference on Artificial Intelligence, 29 August-8 September 2020, Santiago de Compostela, Spain, August 29 - September 8, 2020 - Including 10th Conference on Prestigious Applications of Artificial Intelligence (PAIS 2020), volume 325 of Frontiers in Artificial Intelligence and Applications, pages 1427–1434. IOS Press, 2020.
- [241] Aysegul Say, Said Fathalla, Sahar Vahdati, Jens Lehmann, and Sören Auer. Semantic representation of physics research data. In Proceedings of the 12th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2020, Volume 2: KEOD, Budapest, Hungary, November 2-4, 2020, pages 64–75. SCITEPRESS, 2020.
- [242] Zeynep Say, Said Fathalla, Sahar Vahdati, Jens Lehmann, and Sören Auer. Ontology design for pharmaceutical research outcomes. In Digital Libraries for Open Knowledge - 24th International Conference on Theory and Practice of Digital Libraries, TPDL 2020, Lyon, France, August 25-27, 2020, Proceedings, volume 12246 of Lecture Notes in Computer Science, pages 119–132. Springer, 2020.

- [243] Harsh Thakkar, Renzo Angles, Marko Rodriguez, Stephen Mallette, and Jens Lehmann. Let's build bridges, not walls: Sparql querying of tinkerpop graph databases with sparql-gremlin. In *IEEE 14th International Conference on Semantic Computing, ICSC 2020, San Diego, CA, USA, February 3-5, 2020*, pages 408–415. IEEE, 2020.
- [244] Chengjin Xu, Mojtaba Nayyeri, Fouad Alkhoury, Hamed Shariat Yazdi, and Jens Lehmann. Tero: A time-aware knowledge graph embedding via temporal rotation. In Proceedings of the 28th International Conference on Computational Linguistics, COLING 2020, Barcelona, Spain (Online), December 8-13, 2020, pages 1583–1593. International Committee on Computational Linguistics, 2020.
- [245] Chengjin Xu, Mojtaba Nayyeri, Yung-Yu Chen, and Jens Lehmann. Knowledge graph embeddings in geometric algebras. In Proceedings of the 28th International Conference on Computational Linguistics, COLING 2020, Barcelona, Spain (Online), December 8-13, 2020, pages 530–544. International Committee on Computational Linguistics, 2020.
- [246] Chengjin Xu, Mojtaba Nayyeri, Sahar Vahdati, and Jens Lehmann. Multiple run ensemble learning with low dimensional knowledge graph embeddings. In Proceedings of the International Workshop on Knowledge Representation and Representation Learning co-located with the 24th European Conference on Artificial Intelligence (ECAI 2020), Virtual Event, September, 2020, volume 3020 of CEUR Workshop Proceedings, pages 36–42. CEUR-WS.org, 2020.
- [247] Chenjin Xu, Mojtaba Nayyeri, Fouad Alkhoury, Hamed Shariat Yazdi, and Jens Lehmann. Temporal knowledge graph completion based on time series gaussian embedding. In The Semantic Web - ISWC 2020 - 19th International Semantic Web Conference, Athens, Greece, November 2-6, 2020, Proceedings, Part I, volume 12506 of Lecture Notes in Computer Science, pages 654–671. Springer, 2020.
- [248] Hamid Zafar, Maryam Tavakol, and Jens Lehmann. Distantly supervised question parsing. In ECAI 2020 - 24th European Conference on Artificial Intelligence, 29 August-8 September 2020, Santiago de Compostela, Spain, August 29 - September 8, 2020 - Including 10th Conference on Prestigious Applications of Artificial Intelligence (PAIS 2020), volume 325 of Frontiers in Artificial Intelligence and Applications, pages 2290–2297. IOS Press, 2020.
- [249] Mehdi Ali, Max Berrendorf, Mikhail Galkin, Veronika Thost, Tengfei Ma, Volker Tresp, and Jens Lehmann. Improving inductive link prediction using hyper-relational facts. In The Semantic Web - ISWC 2021 - 20th International Semantic Web Conference, ISWC 2021, Virtual Event, October 24-28, 2021, Proceedings, volume 12922 of Lecture Notes in Computer Science, pages 74–92. Springer, 2021.

- [250] Debanjan Chaudhuri, Md. Rashad Al Hasan Rony, and Jens Lehmann. Grounding dialogue systems via knowledge graph aware decoding with pre-trained transformers. In The Semantic Web - 18th International Conference, ESWC 2021, Virtual Event, June 6-10, 2021, Proceedings, volume 12731 of Lecture Notes in Computer Science, pages 323–339. Springer, 2021.
- [251] Carsten Felix Draschner, Jens Lehmann, and Hajira Jabeen. Distsim scalable distributed in-memory semantic similarity estimation for rdf knowledge graphs. In 15th IEEE International Conference on Semantic Computing, ICSC 2021, Laguna Hills, CA, USA, January 27-29, 2021, pages 333–336. IEEE, 2021.
- [252] Carsten Felix Draschner, Claus Stadler, Farshad Bakhshandegan Moghaddam, Jens Lehmann, and Hajira Jabeen. Distrdf2ml - scalable distributed in-memory machine learning pipelines for rdf knowledge graphs. In CIKM '21: The 30th ACM International Conference on Information and Knowledge Management, Virtual Event, Queensland, Australia, November 1 - 5, 2021, pages 4465–4474. ACM, 2021.
- [253] Diego Esteves, José Marcelino, Piyush Chawla, Asja Fischer, and Jens Lehmann. Horus-ner: A multimodal named entity recognition framework for noisy data. In Advances in Intelligent Data Analysis XIX - 19th International Symposium on Intelligent Data Analysis, IDA 2021, Porto, Portugal, April 26-28, 2021, Proceedings, volume 12695 of Lecture Notes in Computer Science, pages 89–100. Springer, 2021.
- [254] Fabian Galetzka, Jewgeni Rose, David Schlangen, and Jens Lehmann. Space efficient context encoding for non-task-oriented dialogue generation with graph attention transformer. In Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing, ACL/IJCNLP 2021, (Volume 1: Long Papers), Virtual Event, August 1-6, 2021, pages 7028–7041. Association for Computational Linguistics, 2021.
- [255] Tobias Grubenmann and Jens Lehmann. Geolog: Scalable logic programming on spatial data. In Proceedings 37th International Conference on Logic Programming (Technical Communications), ICLP Technical Communications 2021, Porto (virtual event), 20-27th September 2021, volume 345 of EPTCS, pages 191–204, 2021.
- [256] Endri Kacupaj, Barshana Banerjee, Kuldeep Singh, and Jens Lehmann. Paraqa: A question answering dataset with paraphrase responses for single-turn conversation. In *The Semantic Web - 18th International Conference, ESWC 2021, Virtual Event, June 6-10, 2021, Proceedings*, volume 12731 of *Lecture Notes in Computer Science*, pages 598–613. Springer, 2021.
- [257] Endri Kacupaj, Joan Plepi, Kuldeep Singh, Harsh Thakkar, Jens Lehmann, and Maria Maleshkova. Conversational question answering over knowledge graphs with

transformer and graph attention networks. In Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics: Main Volume, EACL 2021, Online, April 19 - 23, 2021, pages 850–862. Association for Computational Linguistics, 2021.

- [258] Endri Kacupaj, Shyamnath Premnadh, Kuldeep Singh, Jens Lehmann, and Maria Maleshkova. Vogue: Answer verbalization through multi-task learning. In Machine Learning and Knowledge Discovery in Databases. Research Track - European Conference, ECML PKDD 2021, Bilbao, Spain, September 13-17, 2021, Proceedings, Part III, volume 12977 of Lecture Notes in Computer Science, pages 563–579. Springer, 2021.
- [259] Farshad Bakhshandegan Moghaddam, Carsten Draschner, Jens Lehmann, and Hajira Jabeen. Literal2feature: An automatic scalable rdf graph feature extractor. In Further with Knowledge Graphs - Proceedings of the 17th International Conference on Semantic Systems, SEMANTICS, Amsterdam, The Netherlands, September 6-9, 2021, volume 53 of Studies on the Semantic Web, pages 74–88. IOS Press, 2021.
- [260] Heba Mohamed, Said Fathalla, Jens Lehmann, and Hajira Jabeen. A scalable approach for distributed reasoning over large-scale owl datasets. In Proceedings of the 13th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2021, Volume 2: KEOD, Online Streaming, October 25-27, 2021, pages 51–60. SCITEPRESS, 2021.
- [261] Mojtaba Nayyeri, Sahar Vahdati, Can Aykul, and Jens Lehmann. 5* knowledge graph embeddings with projective transformations. In Thirty-Fifth AAAI Conference on Artificial Intelligence, AAAI 2021, Thirty-Third Conference on Innovative Applications of Artificial Intelligence, IAAI 2021, The Eleventh Symposium on Educational Advances in Artificial Intelligence, EAAI 2021, Virtual Event, February 2-9, 2021, pages 9064–9072. AAAI Press, 2021.
- [262] Mojtaba Nayyeri, Sahar Vahdati, Emanuel Sallinger, Mirza Mohtashim Alam, Hamed Shariat Yazdi, and Jens Lehmann. Pattern-aware and noise-resilient embedding models. In Advances in Information Retrieval - 43rd European Conference on IR Research, ECIR 2021, Virtual Event, March 28 - April 1, 2021, Proceedings, Part I, volume 12656 of Lecture Notes in Computer Science, pages 483–496. Springer, 2021.
- [263] Mojtaba Nayyeri, Chengjin Xu, Franca Hoffmann, Mirza Mohtashim Alam, Jens Lehmann, and Sahar Vahdati. Knowledge graph representation learning using ordinary differential equations. In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing, EMNLP 2021, Virtual Event / Punta

Cana, Dominican Republic, 7-11 November, 2021, pages 9529–9548. Association for Computational Linguistics, 2021.

- [264] Mojtaba Nayyeri, Chengjin Xu, Yadollah Yaghoobzadeh, Sahar Vahdati, Mirza Mohtashim Alam, Hamed Shariat Yazdi, and Jens Lehmann. Loss-aware pattern inference: A correction on the wrongly claimed limitations of embedding models. In Advances in Knowledge Discovery and Data Mining 25th Pacific-Asia Conference, PAKDD 2021, Virtual Event, May 11-14, 2021, Proceedings, Part III, volume 12714 of Lecture Notes in Computer Science, pages 77–89. Springer, 2021.
- [265] Rostislav Nedelchev, Jens Lehmann, and Ricardo Usbeck. Proxy indicators for the quality of open-domain dialogues. In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing, EMNLP 2021, Virtual Event / Punta Cana, Dominican Republic, 7-11 November, 2021, pages 7834–7855. Association for Computational Linguistics, 2021.
- [266] Joan Plepi, Endri Kacupaj, Kuldeep Singh, Harsh Thakkar, and Jens Lehmann. Context transformer with stacked pointer networks for conversational question answering over knowledge graphs. In *The Semantic Web - 18th International Conference, ESWC 2021, Virtual Event, June 6-10, 2021, Proceedings*, volume 12731 of *Lecture Notes in Computer Science*, pages 356–371. Springer, 2021.
- [267] Manoj Prabhakar Kannan Ravi, Kuldeep Singh, Isaiah Onando Mulang, Saeedeh Shekarpour, Johannes Hoffart, and Jens Lehmann. Cholan: A modular approach for neural entity linking on wikipedia and wikidata. In Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics: Main Volume, EACL 2021, Online, April 19 - 23, 2021, pages 504–514. Association for Computational Linguistics, 2021.
- [268] Afshin Sadeghi, Diego Collarana, Damien Graux, and Jens Lehmann. Embedding knowledge graphs attentive to positional and centrality qualities. In Machine Learning and Knowledge Discovery in Databases. Research Track - European Conference, ECML PKDD 2021, Bilbao, Spain, September 13-17, 2021, Proceedings, Part II, volume 12976 of Lecture Notes in Computer Science, pages 548–564. Springer, 2021.
- [269] Afshin Sadeghi, Hirra Malik, Diego Collarana, and Jens Lehmann. Relational pattern benchmarking on the knowledge graph link prediction task. In Proceedings of the Neural Information Processing Systems Track on Datasets and Benchmarks 1, NeurIPS Datasets and Benchmarks 2021, December 2021, virtual, 2021.
- [270] Afshin Sadeghi, Xhulia Shahini, Martin Schmitz, and Jens Lehmann. Benchembedd: A fair benchmarking tool for knowledge graph embeddings. In Joint Proceedings of the Semantics co-located events: Poster&Demo track and Workshop on Ontology-Driven Conceptual Modelling of Digital Twins co-located with Semantics 2021,

Amsterdam and Online, September 6-9, 2021, volume 2941 of CEUR Workshop Proceedings. CEUR-WS.org, 2021.

- [271] Golsa Tahmasebzadeh, Endri Kacupaj, Eric Müller-Budack, Sherzod Hakimov, Jens Lehmann, and Ralph Ewerth. Geowine: Geolocation based wiki, image, news and event retrieval. In SIGIR '21: The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval, Virtual Event, Canada, July 11-15, 2021, pages 2565–2569. ACM, 2021.
- [272] Patrick Westphal, Sahar Vahdati, and Jens Lehmann. A simulated annealing metaheuristic for concept learning in description logics. In *Inductive Logic Programming* - 30th International Conference, ILP 2021, Virtual Event, October 25-27, 2021, Proceedings, volume 13191 of Lecture Notes in Computer Science, pages 266–281. Springer, 2021.
- [273] Nico Wilhelm, Diego Collarana, and Jens Lehmann. A virtual knowledge graph for enabling defect traceability and customer service analytics. In *The Semantic Web: ESWC 2021 Satellite Events - Virtual Event, June 6-10, 2021, Revised Selected Papers*, volume 12739 of *Lecture Notes in Computer Science*, pages 245– 248. Springer, 2021.
- [274] Chengjin Xu, Yung-Yu Chen, Mojtaba Nayyeri, and Jens Lehmann. Temporal knowledge graph completion using a linear temporal regularizer and multivector embeddings. In Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, NAACL-HLT 2021, Online, June 6-11, 2021, pages 2569–2578. Association for Computational Linguistics, 2021.
- [275] Chengjin Xu, Mojtaba Nayyeri, Sahar Vahdati, and Jens Lehmann. Multiple run ensemble learning with low-dimensional knowledge graph embeddings. In International Joint Conference on Neural Networks, IJCNN 2021, Shenzhen, China, July 18-22, 2021, pages 1–8. IEEE, 2021.
- [276] Chengjin Xu, Fenglong Su, and Jens Lehmann. Time-aware graph neural network for entity alignment between temporal knowledge graphs. In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing, EMNLP 2021, Virtual Event / Punta Cana, Dominican Republic, 7-11 November, 2021, pages 8999–9010. Association for Computational Linguistics, 2021.
- [277] Mehdi Ali, Max Berrendorf, Mikhail Galkin, Veronika Thost, Tengfei Ma, Volker Tresp, and Jens Lehmann. Improving inductive link prediction using hyper-relational facts (extended abstract). In Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence, IJCAI 2022, Vienna, Austria, 23-29 July 2022, pages 5259–5263. ijcai.org, 2022.

- [278] Farshad Bakhshandegan Moghaddam, Jens Lehmann, and Hajira Jabeen. Distad: A distributed generic anomaly detection framework over large kgs. In 16th IEEE International Conference on Semantic Computing, ICSC 2022, Laguna Hills, CA, USA, January 26-28, 2022, pages 243–250. IEEE, 2022.
- [279] Mojtaba Nayyeri, Sahar Vahdati, Md Tansen Khan, Mirza Mohtashim Alam, Lisa Wenige, Andreas Behrend, and Jens Lehmann. Dihedron algebraic embeddings for spatio-temporal knowledge graph completion. In The Semantic Web 19th International Conference, ESWC 2022, Hersonissos, Crete, Greece, May 29 June 2, 2022, Proceedings, volume 13261 of Lecture Notes in Computer Science, pages 253–269. Springer, 2022.
- [280] Md. Rashad Al Hasan Rony, Liubov Kovriguina, Debanjan Chaudhuri, Ricardo Usbeck, and Jens Lehmann. Rome: A robust metric for evaluating natural language generation. In Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), ACL 2022, Dublin, Ireland, May 22-27, 2022, pages 5645–5657. Association for Computational Linguistics, 2022.
- [281] Md. Rashad Al Hasan Rony, Ricardo Usbeck, and Jens Lehmann. Dialokg: Knowledge-structure aware task-oriented dialogue generation. In *Findings of the Association for Computational Linguistics: NAACL 2022, Seattle, WA, United States, July 10-15, 2022*, pages 2557–2571. Association for Computational Linguistics, 2022.
- [282] Md. Rashad Al Hasan Rony, Ying Zuo, Liubov Kovriguina, Roman Teucher, and Jens Lehmann. Climate bot: A machine reading comprehension system for climate change question answering. In Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence, IJCAI 2022, Vienna, Austria, 23-29 July 2022, pages 5249–5252. ijcai.org, 2022.
- [283] Chengjin Xu, Fenglong Su, Bo Xiong, and Jens Lehmann. Time-aware entity alignment using temporal relational attention. In WWW '22: The ACM Web Conference 2022, Virtual Event, Lyon, France, April 25 - 29, 2022, pages 788–797. ACM, 2022.

4.4 Incollections

- [284] Sören Auer, Jens Lehmann, and Christian Bizer. Semantische mashups auf basis vernetzter daten. In Social Semantic Web: Web 2.0 - Was nun?, X.media.press, pages 259–286. Springer, 2009.
- [285] 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, pages 104–130. CRC Press, 2011.

- [286] Sebastian Hellmann, Claus Stadler, and Jens Lehmann. The german dbpedia: A sense repository for linking entities. In *Linked Data in Linguistics - Representing* and Connecting Language Data and Language Metadata, pages 181–190. Springer, 2012.
- [287] Sebastian Hellmann, Volha Bryl, Lorenz Bühmann, Milan Dojchinovski, Dimitris Kontokostas, Jens Lehmann, Uros Milosevic, Petar Petrovski, Vojtech Svátek, Mladen Stanojevic, and Ondrej Zamazal. Knowledge base creation, enrichment and repair. In Linked Open Data - Creating Knowledge Out of Interlinked Data -Results of the LOD2 Project, volume 8661 of Lecture Notes in Computer Science, pages 45–69. Springer, 2014.
- [288] Pascal Hitzler, Jens Lehmann, and Axel Polleres. Logics for the semantic web. In *Computational Logic*, volume 9 of *Handbook of the History of Logic*, pages 679–710. Elsevier, 2014.
- [289] Jens Lehmann, Spiros Athanasiou, Andreas Both, Alejandra García-Rojas, Giorgos Giannopoulos, Daniel Hladky, Jon Jay Le Grange, Axel-Cyrille Ngonga Ngomo, Mohamed Ahmed Sherif, Claus Stadler, Matthias Wauer, Patrick Westphal, and Vadim Zaslawski. Managing geospatial linked data in the geoknow project. In *The Semantic Web in Earth and Space Science. Current Status and Future Directions*, volume 20 of *Studies on the Semantic Web*, pages 51–78. IOS Press, 2015.

4.5 Proceedings

- [290] Maribel Acosta, Lora Aroyo, Abraham Bernstein, Jens Lehmann, Natasha F. Noy, and Elena Simperl, editors. Proceedings of the 1st International Workshop on Crowdsourcing the Semantic Web, Sydney, Australia, October 19, 2013, volume 1030 of CEUR Workshop Proceedings. CEUR-WS.org, 2013.
- [291] Mehwish Alam, Mehdi Ali, Paul Groth, Pascal Hitzler, Jens Lehmann, Heiko Paulheim, Achim Rettinger, Harald Sack, Afshin Sadeghi, and Volker Tresp, editors. Machine Learning with Symbolic Methods and Knowledge Graphs co-located with European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2021), Virtual, September 17, 2021, volume 2997 of CEUR Workshop Proceedings. CEUR-WS.org, 2021.
- [292] Sören Auer, Tim Berners-Lee, Christian Bizer, Sarven Capadisli, Tom Heath, Krzysztof Janowicz, and Jens Lehmann, editors. Workshop on Linked Data on the Web co-located with 26th International World Wide Web Conference (WWW 2017), CEUR Workshop Proceedings. CEUR-WS.org, 2017.

- [293] Tim Berners-Lee, Sarven Capadisli, Stefan Dietze, Aidan Hogan, Krzysztof Janowicz, and Jens Lehmann, editors. Workshop on Linked Data on the Web co-located with The Web Conference 2018, LDOW@WWW 2018, Lyon, France April 23rd, 2018, volume 2073 of CEUR Workshop Proceedings. CEUR-WS.org, 2018.
- [294] David Chaves-Fraga, Pieter Heyvaert, Freddy Priyatna, Juan F. Sequeda, Anastasia Dimou, Hajira Jabeen, Damien Graux, Gezim Sejdiu, Mohammed Saleem, and Jens Lehmann, editors. Joint Proceedings of the 1st International Workshop on Knowledge Graph Building and 1st International Workshop on Large Scale RDF Analytics co-located with 16th Extended Semantic Web Conference (ESWC 2019), Portorož, Slovenia, June 3, 2019, volume 2489 of CEUR Workshop Proceedings. CEUR-WS.org, 2019.
- [295] Nandana Mihindukulasooriya, Mohnish Dubey, Alfio Gliozzo, Jens Lehmann, Axel-Cyrille Ngonga Ngomo, and Ricardo Usbeck, editors. Proceedings of the SeMantic AnsweR Type prediction task (SMART) at ISWC 2020 Semantic Web Challenge colocated with the 19th International Semantic Web Conference (ISWC 2020), Virtual Conference, November 5th, 2020, volume 2774 of CEUR Workshop Proceedings. CEUR-WS.org, 2020.
- [296] Heiko Paulheim, Jens Lehmann, Vojtech Svátek, Craig A. Knoblock, Matthew Horridge, Patrick Lambrix, and Bijan Parsia, editors. Joint Proceedings of the 5th Workshop on Data Mining and Knowledge Discovery meets Linked Open Data and the 1st International Workshop on Completing and Debugging the Semantic Web (Know@LOD-2016, CoDeS-2016) co-located with 13th ESWC 2016, Heraklion, Greece, May 30th, 2016, volume 1586 of CEUR Workshop Proceedings. CEUR-WS.org, 2016.
- [297] Harald Sack, Agata Filipowska, Jens Lehmann, and Sebastian Hellmann, editors. Proceedings of the 10th International Conference on Semantic Systems, SEMAN-TICS 2014, Leipzig, Germany, September 4-5, 2014. ACM, 2014.
- [298] Harald Sack, Agata Filipowska, Jens Lehmann, and Sebastian Hellmann, editors. Proceedings of the Posters and Demos Track of 10th International Conference on Semantic Systems - SEMANTiCS2014, Leipzig, Germany, September 4-5, 2014, volume 1224 of CEUR Workshop Proceedings. CEUR-WS.org, 2014.
- [299] Johanna Völker, Heiko Paulheim, Jens Lehmann, and Mathias Niepert, editors. Proceedings of the First International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data, Heraklion, Greece, May 27, 2012, volume 868 of CEUR Workshop Proceedings. CEUR-WS.org, 2012.
- [300] Johanna Völker, Heiko Paulheim, Jens Lehmann, Mathias Niepert, and Harald Sack, editors. *Proceedings of the Second International Workshop on Knowledge*

Discovery and Data Mining Meets Linked Open Data, Montpellier, France, May 26, 2013, volume 992 of CEUR Workshop Proceedings. CEUR-WS.org, 2013.

- [301] Johanna Völker, Heiko Paulheim, Jens Lehmann, Harald Sack, and Vojtech Svátek, editors. Proceedings of the 3rd Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data co-located with 11th Extended Semantic Web Conference (ESWC 2014), Crete, Greece, May 25, 2014, volume 1243 of CEUR Workshop Proceedings. CEUR-WS.org, 2014.
- [302] Johanna Völker, Heiko Paulheim, Jens Lehmann, and Vojtech Svátek, editors. Proceedings of the 4th Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data co-located with 12th Extended Semantic Web Conference (ESWC 2015), Portoroz, Slovenia, May 31, 2015, volume 1365 of CEUR Workshop Proceedings. CEUR-WS.org, 2015.

4.6 PhD Theses

[303] Jens Lehmann. Learning OWL Class Expressions. PhD thesis, Üniversity of Leipzig, 2010. PhD in Computer Science, supervisors: Prof. Klaus-Peter Fähnrich, Dr. Sören Auer.

4.7 Masters Theses

[304] 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.

5 Research Community Services

5.1 Advisory Boards

- ▷ Advisory Board Member of the LAMBDA Network (2018 2021)
- ▷ Advisory Board Member of the WDAqua Network of Excellence (2016 2017)
- \triangleright Bitkom Working Group Articial Intelligence (since 2017)

5.2 Datasets

- ▷ LC-QuAD Largescale Complex Question Answering Dataset
- ▷ LinkedGeoData Adding a spatial dimension to the Web of Data (since 2009, co-founder, co-leader)
- ▷ DBpedia Extraction of machine understandable content from Wikipedia (since 2007, co-founder, co-leader)

5.3 Event Organisation

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

5.4 General Chair

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

5.5 Journal Editorial Boards

- \triangleright Semantic Web Journal, since 2010
- $\,\vartriangleright\,$ Journal of Information Technology Research, since 2008

5.6 Networks

- ▷ European Lab for Learning and Intelligent Systems (ELLIS)
- ▷ Center for Scalable Data Analytics and Artificial Intelligence (ScaDS.AI)

5.7 Panel Member

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

5.8 Program Chair

- ▷ SEMANTICs Transfer, Engineering, Community (SEMANTICs), 2014
- \triangleright European Data Forum (EDF), 2014

5.9 Programme Committees

- ▷ Conference on Empirical Methods in Natural Language Processing (EMNLP), 2021
- ▷ Extended Semantic Web Conference (ESWC), 2019
- ▷ International Joint Conference on Articial Intelligence (IJCAI), 2018
- ▷ Hybrid Question Answering with Structured and Unstructured Knowledge (HQA),2018
- \triangleright Extended Semantic Web Conference (ESWC), 2018
- \triangleright Question Answering over Linked Data (QALD), 2017
- ▷ International Conference on Knowledge Capture (K-Cap), 2017
- ▷ Generalizing knowledge: from Machine Learning and Knowledge Representation to the Semantic Web (GenSW), 2017
- ▷ Top-K Shortest Path in Large Typed RDF Graphs Challenge (Top-K), 2016
- \triangleright Question Answering over Linked Data (QALD), 2016
- ▷ Association for the Advancement of Articial Intelligence Conference (AAAI), 2015
- ▷ Natural Language Interfaces for Web of Data (NLIWoD), 2014
- ▷ International Workshop on NoSQL Databases and Linked Data Applications (NoSQL-Net), 2014
- ▷ International Semantic Web Conference (ISWC), 2014
- \triangleright Extended Semantic Web Conference (ESWC), 2014
- ▷ International Conference on Knowledge Capture (K-Cap), 2013
- \triangleright Ontologies and Data in Life Sciences (ODLS), 2013
- \triangleright Linked Data on the Web (LDOW), 2013
- ▷ International Workshop on Description Logics (DL), 2013
- ▷ International Semantic Web Conference (ISWC), 2013
- ▷ International Joint Conference on Articial Intelligence (IJCAI), 2013
- ▷ Association for the Advancement of Articial Intelligence Conference (AAAI), 2013
- ▷ ACM Conference on Hypertext and Social Media (Hypertext), 2013
- \triangleright Very Large Data Search (VLDS), 2012

- ▷ Studentenkonferenz Informatik Leipzig (SKIL), 2012
- \triangleright Linked Data on the Web (LDOW), 2012
- ▷ International Semantic Web Conference (ISWC), 2012
- ▷ International Conference on World Wide Web (WWW), 2012
- ▷ International Conference on Knowledge Engineering and Knowledge Management (EKAW), 2012
- \triangleright Interacting with Linked Data (ILD), 2012
- ▷ GIScience in the Big Data Age 2012 (GiBDA), 2012
- ▷ Extended Semantic Web Conference (ESWC), 2012
- ▷ Studentenkonferenz Informatik Leipzig (SKIL), 2011
- \triangleright Massive Information Sharing and Integration (MISI), 2011
- \triangleright Linked Data on the Web (LDOW), 2011
- International Workshop on Inductive Reasoning and Machine Learning for the Semantic Web (IRMLeS), 2011
- ▷ International Semantic Web Conference (ISWC), 2011
- ▷ International Joint Conference on Articial Intelligence (IJCAI), 2011
- ▷ International Conference on Web Engineering (ICWE), 2011
- \triangleright Extended Semantic Web Conference (ESWC), 2011
- ▷ Workshop on Trust and Privacy on the Social and Semantic Web (SPOT), 2010
- ▷ Workshop on Inductive Reasoning and Machine Learning on the Semantic Web(IRMLeS), 2010
- ▷ Workshop On Linked Spatiotemporal Data (LSTD), 2010
- ▷ Studentenkonferenz Informatik Leipzig (SKIL), 2010
- \triangleright Extended Semantic Web Conference (ESWC), 2010
- \triangleright European Semantic Web Conference (ESWC), 2009
- \triangleright Workshop on Scripting and Development for the Semantic Web (SFSW), 2009
- ▷ Workshop on Inductive Reasoning and Machine Learning on the Semantic Web(IRMLeS), 2009
- ▷ International Workshop on Web Semantics (WebS), 2009
- ▷ European Semantic Web Conference (ESWC), 2009
- \triangleright Workshop on Scripting for the Semantic Web (SFSW), 2008

- ▷ International Conference on Semantic Systems (I-Semantics), 2008
- \triangleright I-Semantics (IS), 2008
- ▷ SABRE Conference on Social Semantic Web (CSSW), 2007

5.10 Research Proposal Reviewing

- ▷ Reviewer for Osterreichische Forschungsforderungsgesellschaft (FFG) 2020
- ▷ Reviewer for Osterreichische Forschungsforderungsgesellschaft (FFG) 2016
- \triangleright Reviewer for the Netherlands Organisation for Scientic Research (NWO) 2015
- ▷ Reviewer for the European Science Foundation (ESF) in the Horizon2020 Program 2015
- ▷ Reviewer for Osterreichische Forschungsforderungsgesellschaft (FFG) 2015
- \rhd Reviewer for Osterreichische Forschungsforderungsgesellschaft (FFG) 2013

5.11 Reviewing

- ▷ Conference on Neural Information Processing Systems (NeurIPS), 2021
- ▷ Conference on Neural Information Processing Systems (NeurIPS), 2020
- ▷ Association for Computational Linguistics (ACL) Conference, 2020
- ▷ Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020
- ▷ Semantic Web Journal (SWJ), 2019
- ▷ Knowledge-Based Systems (KNOSYS), 2018
- ▷ International Joint Conference on Articial Intelligence (IJCAI), 2018
- \triangleright Machine Learning (MLj), 2017
- \triangleright Machine Learning (MLj), 2016
- ▷ Journal of Machine Learning Research (JMLR), 2016
- ▷ Semantic Web Journal (SWJ), 2017
- \triangleright Journal of Web Semantics (JWS), 2015
- \triangleright Language Resources and Evaluation Conference (LREC), 2014
- ▷ Journal of Machine Learning Research (JMLR), 2014
- ▷ Journal of Information Technology Research (JITR), 2014
- ▷ Knowledge-Based Systems (KNOSYS), 2013
- \triangleright Journal of Web Semantics (JWS), 2013

- ▷ International Conference on World Wide Web (WWW), 2013
- ▷ Semantic Web Journal (SWJ), 2012
- \triangleright Journal of Web Semantics (JWS), 2012
- ▷ Journal of Information Technology Research (JITR), 2012
- ▷ International Workshop on Description Logics (DL), 2012
- ▷ International Symposium on Rules (RuleML), 2012
- \triangleright IEEE Intelligent Systems, 2012
- ▷ Semantic Web Journal (SWJ), 2011
- \triangleright Knowledge-Based Systems (KNOSYS), 2011
- ▷ International Journal On Semantic Web and Information Systems (IJSWIS), 2011
- ▷ International Conference on Inductive Logic Programming (ILP), 2011
- \triangleright IEEE Intelligent Systems, 2011
- \triangleright Semantic Web Journal (SWJ), 2010
- ▷ Knowledge-Based Systems (KNOSYS), 2010
- \triangleright Journal of Web Semantics (JWS), 2010
- ▷ International Conference on Inductive Logic Programming (ILP), 2010
- \triangleright Journal of Web Semantics (JWS), 2009
- ▷ Journal of Information Technology Research (JITR), 2009
- ▷ International Semantic Web Conference (ISWC), 2009
- ▷ IEEE International Conference on Semantic Computing (ICSC), 2009
- ▷ European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), 2009
- \triangleright Workshop on Linked Data on the Web (LDOW), 2008
- ▷ International Journal of Metadata, Semantics and Ontologies (IJMSO) (IJMSO),2008
- \triangleright IEEE International Conference on Web Services (ICWS), 2008
- \triangleright Journal of Web Semantics (JWS), 2007
- ▷ International Joint Conference on Neural Networks (IJCNN), 2007
- ▷ European Semantic Web Conference (ESWC), 2007

5.12 Senior PC Member

- ▷ International Joint Conference on Articial Intelligence (IJCAI), 2021
- ▷ International Joint Conference on Articial Intelligence (IJCAI), 2020
- ▷ International Joint Conference on Articial Intelligence (IJCAI), 2019
- ▷ Association for the Advancement of Articial Intelligence Conference (AAAI), 2018
- ▷ Association for the Advancement of Articial Intelligence Conference (AAAI), 2017
- ▷ Association for the Advancement of Articial Intelligence Conference (AAAI), 2016
- ▷ Association for the Advancement of Articial Intelligence Conference (AAAI), 2014

5.13 Software

- ▷ PyKEEN Python package designed to train and evaluate knowledge graph embedding models
- ▷ SANSA Distributed Semantic Analytics Stack (since 2016, founder, leader)
- ▷ Sparqlify SPARQL-SQL rewriter (since 2012, supervisor)
- ▷ DeFacto Deep Fact Validation (since 2012, founder, co-leader)
- ▷ DL-Learner A tool for supervised Machine Learning in OWL and Description Logics (since 2007, founder, leader)

5.14 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

5.15 Sponsorship Chair

 \triangleright International Semantic Web Conference (ISWC), 2014

5.16 Track/Area Chair

- ▷ International Conference on Learning Representations (ICLR), 2023
- ▷ Extended Semantic Web Conference (ESWC), 2016
- ▷ Extended Semantic Web Conference (ESWC), 2013
- \triangleright Extended Semantic Web Conference (ESWC), 2011

5.17 Tutorial Chair

- ▷ SANSA's Leap of Faith: Scalable RDF and Heterogeneous Data Lakes, Extended Semantic Web Conference (ESWC), 2019
- ▷ QA-Tutorial: How to build a Question Answering system overnight, Extended Semantic Web Conference (ESWC), 2019
- ▷ QA-Tutorial: How to build a Question Answering system overnight, Extended Semantic Web Conference (ESWC), 2018

5.18 Workshop Chair

- \triangleright New Trends in Representation Learning with Knowledge Graphs (KGRL), 2021
- ▷ New Trends in Representation Learning with Knowledge Graphs (KGRL), 2019
- \triangleright Large Scale RDF Analytics (LASCAR), 2019
- \triangleright Linked Data on the Web (LDOW), 2018
- \triangleright Linked Data on the Web (LDOW), 2017
- International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2016
- ▷ Special session on: Open Data and Geographical Information System applications(ODaGIS), 2015
- International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2015
- \triangleright Linked Data Europe (LDE), 2014
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2014
- ▷ International Workshop on Geospatial Linked Data (GeoLD), 2014
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2013
- ▷ International Workshop on Crowdsourcing the Semantic Web (CrowdSem), 2013
- ▷ International Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), 2012

6 Teaching

6.1 Courses at TU Dresden

- ▷ Seminar Conversational AI at TU Dresden
- ▷ Seminar Knowledge Graph Representation Learning at TU Dresden

6.2 Courses at University of Bonn

- ▷ General Chair of the Computer Science Conference of University of Bonn students (CSCUBS), A popular initiative to help students organize their own conference
- \triangleright Lab Semantic Web, Yearly from 2018 until 2021
- ▷ Project group Applied Software Technology (AST), 2017
- ▷ Seminar and Lab Natural Language Processing, 2017 2020
- ▷ Lecture, Seminar and Exercises Semantic Web, Yearly since 2017/2018
- ▷ Lab Distributed Big Data Analytics, Each semester, 2017 2020
- $\,\vartriangleright\,$ Seminar on Model-Driven Software Engineering, 2016
- \triangleright Master Thesis Seminar, Each semester since 2016
- ▷ Knowledge Graph Analysis (lecture, exercises, seminar), Yearly from 2016/2017 until 2018/2019

6.3 Courses at University of Leipzig

- \triangleright Seminar Semantic Web, 2012/13
- \triangleright Practical course software technology, 2012/13
- ▷ Practical course Semantic Web, 2009, 2010, 2011, 2012, 2013 and 2014
- $\triangleright~$ I was assistant lecturer for the Semantic Web course at the University of Leipzig and became lecturer of the course together with my colleague Axel Ngonga, 2009 - 2011 and 2012 - 2015
- \triangleright Seminar software product line management, 2008/09
- \triangleright Seminar semantic support for software development processes, 2007/08
- \triangleright Seminar Semantic Web applications, 2007
- ▷ I led the research seminar for the chair of business information systems, University of Leipzig, 2006 - 2010
- \triangleright Seminar Semantic Web services and interfaces, 2006/07

6.4 Other lectures

- ▷ 4 invited lectures at the ICCL (International Center for Computational Logic) Summer School in 2013 on the Linked Data Life-Cycle, 2013
- ▷ 2 full lecture days (20 hours) in 2012 and 1.5 full lecture days (15 hours) in 2013 for the School of Media in Leipzig, Germany, 2012 and 2013
- \vartriangleright Half day lecture at the Leipziger Semantic Web day 2011 on web technology and semantics, 2011
- ▷ Invited lecture on ontology learning at the Reasoning Web Summer School 2010 in Dresden, Germany, 2010

7 Supervision

7.1 Assistant Professors

7.2 PostDocs

- ▷ Kossi Amouzouvi, TU Dresden, Since 2022
- ▷ Robert Wardenga, University of Leipzig, Since 2021
- ▷ Giulio Napolitano, University of Bonn, Since 2017

7.3 Former PostDocs

- $\,\vartriangleright\,$ Ricardo Usbeck, Fraunhofer IAIS, 2019 2021
- $\,\vartriangleright\,$ Michael Galkin, Fraunhofer IAIS, 2019 2020
- ▷ Diego Collarana, Fraunhofer IAIS, Since 2019
- ▷ Sahar Vahdati, University of Bonn, Since 2019
- ▷ Anisa Rula, University of Bonn, 2017 2021
- ▷ Simon Scerri, University of Bonn, 2017 2019
- ▷ Christoph Lange, University of Bonn, 2017 2019
- ▷ Ioanna Lytra, University of Bonn, 2017 2019
- ▷ Fabrizio Orlandi, University of Bonn, 2017 2018
- ▷ Luís Paulo F. Garcia, University of Leipzig, 2017 2018
- ▷ Hamed Shariat Yazdi, University of Bonn, 2016 2018
- ▷ Henning Petzka, Fraunhofer IAIS, University of Bonn, 2016 2018
- ▷ Mohamed Ahmed Sherif, University of Leipzig, 2016 2018
- ▷ Bastian Haarmann, Fraunhofer IAIS, 2016 2017
- ▷ Alexander Kister, University of Bonn, 2016 2017
- ▷ Hajira Jabeen, University of Leipzig, 2015 2020
- ▷ Günter Kniesel, University of Bonn, Since 2015
- ▷ Kuldeep Singh, Fraunhofer IAIS, 2017 2019
- ▷ Amrapali J. Zaveri, University of Leipzig, 2015 2015

7.4 PhD Students

- ▷ Farshad Bakhshandegan Moghaddam, University of Bonn, Since 2020
- ▷ Carsten Draschner, University of Bonn, Since 2020
- ▷ Md Rashad Al Hasan Rony, Fraunhofer IAIS Dresden, Since 2019
- ▷ Chengjin Xu, University of Bonn, Since 2019
- ▷ Endri Kacupaj, University of Bonn, Since 2019
- ▷ Lars Reimann, University of Bonn, Since 2019
- ▷ Firas Kassawat, University of Bonn, Since 2019
- ▷ Mirza Mohtashim Alam, University of Bonn, Since 2018
- ▷ Mehdi Ali, University of Bonn, Since 2018
- ▷ Shimaa Ibrahim, University of Bonn, Since 2018
- ▷ Rostislav Nedelchev, University of Bonn, Since 2018
- ▷ Mojtaba Nayyeri, University of Bonn, Since 2018
- ▷ Jewgeni Rose, University of Bonn, Since 2018
- $\rhd\,$ Elisa Margareth Sibarani, University of Bonn, Since 2017
- ▷ Heba Mohamed, University of Bonn, Since 2017
- ▷ Afshin Sadeghi, University of Bonn, Since 2017
- ▷ Patrick Westphal, University of Leipzig, Since 2013

7.5 Former PhD Students

- ▷ Fathoni Musyaffa, University of Bonn, 2017 2021
- $\,\vartriangleright\,$ Mohnish Dubey, University of Bonn, 2015 2021
- ▷ Harsh Thakkar, University of Bonn, 2017 2021
- ▷ Najmeh Mousavi Nejad, University of Bonn, 2017 2021
- ▷ Said Fathalla, University of Bonn, 2017 2021
- ▷ Gezim Sejdiu, University of Bonn, 2016 2020
- ▷ Hamid Zafar, University of Bonn, 2017 2020
- ▷ Konrad Höffner, University of Leipzig, 2012 2020
- ▷ Diego Esteves, University of Leipzig, 2015 2019
- ▷ Diego Collarana, Fraunhofer IAIS, 2017 2019

- ▷ Michael Galkin, Fraunhofer IAIS, 2017 2019
- ▷ Sahar Vahdati, University of Bonn, 2017 2019
- ▷ Sebastian Bader, Fraunhofer IAIS, Since 2018
- ▷ Isaiah Onando Mulang, University of Bonn, Since 2017
- ▷ Denis Lukovnikov, University of Bonn, Since 2017
- ▷ Debanjan Chaudhuri, University of Bonn, Since 2017
- ▷ Dimitris Kontokostas, University of Leipzig, 2012 2017
- ▷ Mohamed Ahmed Sherif, University of Leipzig, 2012 2016
- ▷ Kuldeep Singh, Fraunhofer IAIS, 2015 2019
- ▷ Amrapali J. Zaveri, University of Leipzig, 2010 2014
- ▷ Sebastian Hellmann, University of Leipzig, 2010 2014
- ▷ Mohamed Morsey, University of Leipzig, 2010 2013

The full CV is available at http://jens-lehmann.org/files/cv.pdf. Visit http://jens-lehmann.org for more information and updates.