

Marco Rospoche

CURRICULUM VITAE

(Updated: February 28, 2019)

1 General Information

1.1 Personal Data

SURNAME: Rospoche

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HOME PAGE: <https://marcorospoche.com/>

GOOGLE SCHOLAR: <http://scholar.google.com/citations?user=wkAcWjMAAAAJ>

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=14010314000>

DBLP: <http://dblp.uni-trier.de/pers/hd/r/Rospoche:Marco>

1.2 Education

Ph.D. in Information and Communication Technologies (March 31, 2006 – ICT School, University of Trento, Italy)

Thesis Title: On the computational complexity of enumerating certificates of NP problems

Advisor: Prof. Romeo Rizzi

Manuscript: <https://marcorospoche.com/files/phd/2006phd.pdf>

M.Sc. (Laurea) degree in Mathematics (March 27, 2002 – University of Trento, Italy)

Thesis Title: All-Pairs and Matching-like Shortest Paths Algorithms

Advisor: Prof. Romeo Rizzi

Final Score: 110/110 cum Laude

Notes: Degree obtained within the legal length period (4 years) of the M.Sc. (Laurea) programme

1.3 National Scientific Qualification

- National Scientific Qualification to function as associate professor in Italian Universities for sector 01/B1 (Informatica / Informatics) [December 5, 2017]
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/2/3>
- National Scientific Qualification to function as associate professor in Italian Universities for sector 09/H1 (Sistemi di Elaborazione Delle Informazioni / Information Processing Systems) [December 5, 2017]
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/2/3>

1.4 Current Position

Associate Professor of Informatics (INF/01) at the University of Verona, within the Department of Foreign Languages and Literatures (since December 2018)

1.5 Past Work and Research Experiences

1.5.1 Work Experiences

- May 2007 - December 2018: Research Scientist at Fondazione Bruno Kessler (FBK), Trento, Italy. Note: Tenured since December 2012
- August 2006 - May 2007: Software Developer at S.a.i.tec. Srl c/o Phoenix Informatica Bancaria SpA, Trento, Italy

1.5.2 Research Grants

- November 2005 - March 2006: Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento
- May 2002 - October 2002: Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento

1.5.3 PhD Scholarship

- November 1, 2002 – October 31, 2005: PhD Student (with Scholarship) at the ICT School of the University of Trento, Italy

2 Research Activities and Related Titles

2.1 Research Interests

Artificial Intelligence, Information Extraction, Semantic Web, Knowledge Representation and Reasoning, Natural Language Processing, Digital Humanities, Machine/Deep Learning, Methodologies and Tools for Collaborative Knowledge Acquisition, Computational Complexity, Algorithmic Graph Theory, Combinatorial Optimization

2.2 Awards

- Best Research Paper Award at the IEEE 18th International Enterprise Distributed Object Computing Conference EDOC2014 (September 1-5, 2014 - Ulm, Germany) for the contribution “The Role of Semantic Annotations in Business Process Modelling” (Chiara Di Francescomarino, Marco Rospocher, Chiara Ghidini, Andrea Valerio)
Certificate: <https://marcorospocher.com/files/awards/2014edoc.pdf>
- Runner-up Prize at the Ontology Competition of the 8th International Conference on Formal Ontology in Information Systems FOIS2014 (September 22-26, 2014 - Rio de Janeiro, Brasil) for the contribution “An ontology for personalized environmental decision support” (Marco Rospocher)
Certificate: <https://marcorospocher.com/files/awards/2014fois.pdf>

- Semantic Sentiment Analysis Award (Task 3 - Frame entities Identification) at the Semantic Web Evaluation of the 12th European Semantic Web Conference ESWC2015 (May 31-June 4, 2015 - Portoroz, Slovenia) for the contribution “Opinion frame extraction from news corpus” (Francesco Corcoglioniti, Alessio Palmero Aprosio, Marco Rospocher)
Certificate: <https://marcorospocher.com/files/awards/2015eswccha.pdf>
- Honorable Mention Award at the In-Use Track of the 7th International Semantic Web Conference ISWC2008 (October 26-30, 2008 - Karlsruhe, Germany) for the contribution “Deploying semantic web technologies for work integrated learning in industry. A comparison: SME vs. large sized company” (Conny Christl, Chiara Ghidini, Joanna Guss, Viktoria Pammer, Stefanie Lindstaedt, Marco Rospocher, Peter Scheir, Luciano Serafini)
Info: <https://marcorospocher.com/files/awards/2008iswc.pdf>
- Distinguished Program Committee Member at the 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018)
Info: <https://www.ijcai-18.org/distinguished-members/>

2.3 Presentations

2.3.1 Invited Talks / Seminars

- Improving NLP Entity Annotations via Ontological Knowledge (SCC Seminar Series - November 15, 2018, FBK, Trento, Italy)
Slides: https://marcorospocher.com/files/slides/2018scc_slides.pdf
- Learning Expressive Ontological Concept Descriptions via Neural Networks (Invited Keynote at the 4th Workshop on Semantic Deep Learning SemDeep-4 - October 9, Monterey, California, US)
Details: <http://www.dfki.de/semdeep-4/program.html>
Slides: https://marcorospocher.com/files/slides/2018semdeep4_slides.pdf
- KnowledgeStore (NewsReader Workshop - November 21, 2015, Amsterdam Public Library, Amsterdam, Netherlands)
Slides: https://marcorospocher.com/files/slides/2015nwr_slides.pdf
- An Ontological Framework for Decision Support (Ontology Summit Track C session on Decision Making in Different Domains - March 19, 2015, Virtual Meeting)
Slides: https://marcorospocher.com/files/slides/2015ontosum_slides.pdf
- Dati e Ricerca (Beni comuni digitali: una risorsa per il territorio, le istituzioni e i cittadini di oggi e domani - March 18, 2015, Riva del Garda, Italy)
Slides: https://marcorospocher.com/files/slides/2015dati_slides.pdf
- KnowledgeStore (Workshop on Deep and Large-Scale Semantic Processing: The Way Ahead - March 10, 2015, FBK, Trento, Italy)
Slides: https://marcorospocher.com/files/slides/2015jpn_slides.pdf
- Semantic Management in PESCaDO (PESCaDO Final Event - February 14, 2012, UPF, Barcelona, Spain)
Slides: https://marcorospocher.com/files/slides/2012pescado_slides.pdf
- Collaborative modeling of processes and ontologies (BMIR Research Colloquium - September 22, 2011, Stanford University, Palo Alto, USA)
Slides: https://marcorospocher.com/files/slides/2011bmir_slides.pdf

- Collaborative modeling of processes and ontologies (DERI - April 7, 2011, Digital Enterprise Research Institute, Galway, Ireland)
Slides: https://marcorospoche.com/files/slides/2011deri_slides.pdf
- MoKi and the ProDe project (ICT Days - March 16, 2011, University of Trento, Trento, Italy)
Slides: https://marcorospoche.com/files/slides/2011ict_slides.pdf
- MoKi: the Modelling Wiki (ILIKS Annual Meeting - December 18, 2009, Trento, Italy)
Slides: https://marcorospoche.com/files/slides/2009iliks_slides.pdf
- Modelling in APOSDLE (ACTIVE EU Project Meeting - January 27, 2009, STI, Innsbruck, Austria)
Slides: https://marcorospoche.com/files/slides/2009active_slides.pdf
- On the Computational Complexity of Listing Certificates of NP problems (ITC Seminars - October 18, 2006, Istituto Trentino di Cultura, Trento, Italy)
Slides: https://marcorospoche.com/files/slides/2006itc_slides.pdf

2.3.2 Conference Talks

- An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations (17th International Semantic Web Conference, ISWC 2018, Monterey, CA, USA, October 8-12, 2018)
Slides: https://marcorospoche.com/files/slides/2018iswc_research_slides.pdf
Video Recording: *coming soon*
- Joint Posterior Revision of NLP Annotations via Ontological Knowledge (27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence, IJCAI-ECAI 2018, July 13-19, 2018, Stockholm, Sweden)
Slides: https://marcorospoche.com/files/slides/2018ijcai_slides.pdf
- Knowledge Extraction for Information Retrieval (12th Extended Semantic Web Conference, ESWC 2016, May 29 - June 2, 2016, Heraklion, Crete, Greece)
Slides: https://marcorospoche.com/files/slides/2016eswc_slides.pdf
Video Recording: http://videlectures.net/eswc2016_rossoche_information_retrieval/
- Processing Billions of RDF Triples on a Single Machine using Streaming and Sorting (30th Annual ACM Symposium on Applied Computing, ACM-SAC2015, April 13 - 17, 2015, Salamanca, Spain)
Slides: https://marcorospoche.com/files/slides/2015sac_slides.pdf
- On the Collaborative Development of Application Ontologies: A Practical Case Study with a SME (19th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014, November 24-28, 2014, Linköping, Sweden)
Slides: https://marcorospoche.com/files/slides/2014ekaw_slides.pdf
- Investigating Collaboration Dynamics in Different Ontology Development Environments (7th International Conference on Knowledge Science, Engineering and Management - KSEM 2014, October 16-18, 2014, Sibiu, Romania)
Slides: https://marcorospoche.com/files/slides/2014ksem_slides.pdf
- An ontology for the Business Process Modelling Notation (8th International Conference on Formal Ontologies and Information Systems, FOIS2014, September 22-25, 2014, Rio de Janeiro, Brazil)
Slides: https://marcorospoche.com/files/slides/2014foisbpmn_slides.pdf

- An ontology for personalized environmental decision support (8th International Conference on Formal Ontologies and Information Systems, FOIS2014, September 22-25, 2014, Rio de Janeiro, Brazil)
Slides: https://marcorospoche.com/files/slides/2014foispescado_slides.pdf
- Interlinking Unstructured and Structured Knowledge in an Integrated Framework (7th IEEE International Conference on Semantic Computing, ICSC2013, September 16 - 18, Irvine, CA, USA)
Slides: https://marcorospoche.com/files/slides/2013icsc_slides.pdf
- An Ontological Framework for Decision Support (2nd Joint International Semantic Technology Conference, JIST2012, December 2-4, 2012, Nara, Japan)
Slides: https://marcorospoche.com/files/slides/2012jist_slides.pdf
- Evaluating wiki-enhanced ontology authoring (18th International Conference on Knowledge Engineering and Knowledge Management, EKAW2012, October 8-12, 2012, Galway, Ireland)
Slides: https://marcorospoche.com/files/slides/2012ekaw_slides.pdf
Video Recording: <https://www.youtube.com/watch?v=zOTY8j-w4j4>
- Conceptual Modeling in Wikis: a Reference Architecture and a Tool (The Fourth International Conference on Information, Process, and Knowledge Management, eKNOW2012, January 30 - February 4, 2012, Valencia, Spain)
Slides: https://marcorospoche.com/files/slides/2012eknow_slides.pdf
- Boosting collaborative ontology building with key-concept extraction (5th IEEE International Conference on Semantic Computing, ICSC2011, September 18-21, 2011, Palo Alto, CA, USA)
Slides: https://marcorospoche.com/files/slides/2011icsc_slides.pdf
- Reasoning on Semantically Annotated Processes (6th International Conference on Service-Oriented Computing, ICSOC2008, December 1-5, 2008, Sydney, Australia)
Slides: https://marcorospoche.com/files/slides/2008icsoc_slides.pdf
- Collaborative Knowledge Engineering via Semantic MediaWiki (International Conference on Semantic Systems, I-SEMANTICS08, September 3 - 5, 2008, Graz University of Technology, Graz, Austria)
Slides: https://marcorospoche.com/files/slides/2008isemantics_slides.pdf

2.3.3 Workshop Talks

- A Simple API to the KnowledgeStore (Developers Workshop at the 13th Int. Semantic Web Conference (ISWC'14), October 19, 2014, Riva del Garda, Italy)
Slides: https://marcorospoche.com/files/slides/2014iswcSemDev02_slides.pdf
- MoKi: the Modelling wiKi (SemWiki2009 - Fourth Workshop on Semantic Wikis, June 1, 2009, Heraklion, Crete, Greece)
Slides: https://marcorospoche.com/files/slides/2009semwiki_slides.pdf

2.3.4 Demo and Poster Presentations

- Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning (ACM SAC'17 - April 3-7, 2017, Marrakesh, Morocco)
Poster: https://marcorospoche.com/files/posters/2017sac_poster.pdf

- Demonstrating the Power of Streaming and Sorting for Non-distributed RDF Processing: RDF-pro (ISWC 2015 Posters & Demonstrations Track, October 11-15, 2015, Bethlehem, USA)
Poster: https://marcorospoche.com/files/posters/2015iswcdemo2_poster.pdf
- Extracting Knowledge from Text with PIKES (ISWC 2015 Posters & Demonstrations Track, October 11-15, 2015, Bethlehem, USA)
Poster: https://marcorospoche.com/files/posters/2015iswcdemo1_poster.pdf
- Integrating Unstructured and Structured Knowledge with the KnowledgeStore (19th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014, November 24-28, 2014, Linköping, Sweden)
Poster: https://marcorospoche.com/files/posters/2014ekawdemo_poster.pdf
- Key-concept Extraction for Ontology Engineering (The 18th International Conference on Knowledge Engineering and Knowledge Management, EKAW2012, September 8-12, 2012, Galway, Ireland)
Poster: https://marcorospoche.com/files/posters/2012ekawdemo_poster.pdf
- MoKi: a Wiki-Based Conceptual Modeling Tool (EKAW2010 Poster and Demo Track, October 11-15, 2010, Lisbona, Portugal)
Poster: https://marcorospoche.com/files/posters/2010ekawdemo_2_poster.pdf
- MoKi: The Enterprise Modelling Wiki (6th European Semantic Web Conference, ESWC 2009, May 31-June 4, 2009, Heraklion, Crete, Greece)
Poster: https://marcorospoche.com/files/posters/2009eswcdemo_poster.pdf
- Collaborative enterprise integrated modelling (16th International Conference on Knowledge Engineering and Knowledge Management Knowledge Patterns, EKAW2008, September 29 - October 3, 2008, Aci Trezza, Italy)
Poster: https://marcorospoche.com/files/posters/2008ekaw_poster.pdf

2.4 Abroad Research Stays

- September 2013 - December 2013: Visiting Scholar at the Musen Lab, Stanford Center for Biomedical Informatics Research, Stanford University (working with: Dr. Tania Tudorache, Prof. Dr. Md. Mark Musen).
Topic: Investigation of collaboration dynamics in different ontology development environments
- January 2005 - April 2005: Visiting Research Associate at the School of Electrical Engineering and Computer Science, University of Newcastle, NSW, Australia (working with: Prof. Pablo Moscato).
Topic: Development of combinatorial optimization algorithms for computational biology.

2.5 Research Projects

2.5.1 Research Project Acquisitions

I've contributed to the successful acquisition of the following projects for FBK:

- NewsReader (EU FP7 Strep Project, Grant 316404, 01.2013-12.2015)
Building structured event indexes of large volumes of financial and economic data for decision making
FBK funding: 745,000 Euro

- ePlanning (Progetto Di Ricerca Applicata, Funded by Local Government under L.P. 13.12.1999, n. 6, art. 5, 2012-2014)
Expert system for building Individualized Education Plan for pupils with special educational needs
FBK funding: 114,000 Euro
- Organic.Lingua (EU FP7 ICP Project, Grant 270999, 03.2011-02.2014)
Demonstrating the potential of a multilingual Web portal for Sustainable Agricultural & Environmental Education
FBK funding: 225,000 Euro

2.5.2 Research Project Participations

- NewsReader (EU FP7 Strep Project, Grant 316404, 01.2013-12.2015)
Building structured event indexes of large volumes of financial and economic data for decision making
Site: https://cordis.europa.eu/project/rcn/106026_en.html
Partners: VU University Amsterdam (Netherlands); Universidad Del Pais Vasco (Spain); LexisNexis (Netherlands); ScraperWiki (United Kingdom); Synerscope (Netherlands)
Role: Project Leader for FBK (FBK personnel involved: 13); Work Package 6 Leader; full coordination of the activities (admin, research, development) of the FBK Data and Knowledge Management research unit; principal investigator of the research and development activities on the KnowledgeStore
- ePlanning (Progetto Di Ricerca Applicata, Funded by Local Government under L.P. 13.12.1999, n. 6, art. 5, 2012-2014)
Expert system for building Individualized Education Plan for pupils with special educational needs
Partners: Edizioni Centro Studi Erickson S.p.a. (Italy)
Role: Project Leader for FBK (FBK personnel involved: 6); full coordination of the activities (admin, research, development) of the FBK Data and Knowledge Management research unit
- PESCaDO (EU FP7 Strep Project, Grant 248594, 01.2010-12.2012)
Personalized Environmental Service Configuration and Delivery Orchestration
Site: https://cordis.europa.eu/project/rcn/93834_en.html
Partners: Universitat Pompeu Fabra (Spain); Fraunhofer Gesellschaft (Germany); University of Stuttgart (Germany); Helsinki Region Environmental Services Authority (Finland); Finnish Meteorological Institute (Finland); Center for Research and Technology Hellas (Greece).
Role: Project Leader for FBK (FBK personnel involved: 5); Work Package 5 Leader; full coordination of the activities (admin, research, development) of the FBK Data and Knowledge Management research unit; principal investigator of the research and development activities on semantic technologies (ontology and reasoning)
- APOSDLE (EU FP6 IP Project, Grant 027023, 03.2006-02.2010)
Advanced process-oriented self-directed learning environment
Site: https://cordis.europa.eu/project/rcn/80574_en.html
Partners: Joanneum Research (Austria); City University London (United Kingdom); ComNet-Media AG (Germany); SAP AG (Germany); University of Twente (Netherlands); Graz University of Technology (Austria); Fraunhofer-Gesellschaft (Germany); European Aeronautic Defence and Space Company - EADS (France); ISN-Innovation Service Network (Austria); IHK Darmstadt (Germany); Know-Center (Austria).

Role: Task-level coordination activities; Participation to the research and development activities

2.6 Resources

2.6.1 Tools

- MoKi: The modelling wiki (<http://moki.fbk.eu>): a collaborative tool that supports the creation of articulated enterprise models (ontologies and business processes) through structured wiki pages
- KnowledgeStore (<http://knowledgestore.fbk.eu>): a scalable, fault-tolerant, and Semantic Web grounded storage system to jointly store, manage, retrieve, and semantically query, both structured and unstructured content
- RDF_{PRO} (<http://rdfpro.fbk.eu>): a public domain, Java command line tool and library for RDF processing
- PIKES (<http://pikes.fbk.eu/>): a framework for extracting knowledge graphs from natural language text
- JPARK (<http://pikes.fbk.eu/jpark.html>): a probabilistic model leveraging ontological knowledge for improving the coherence and revise NLP entity annotations
- PSL4EA (<http://pikes.fbk.eu/psl4ea.html>): an ontological knowledge powered approach based on Probabilistic Soft Logic for jointly revising multiple NLP entity annotations
- KE4IR (<http://pikes.fbk.eu/ke4ir.html>): an approach that improves the performances of the traditional term-based similarity solution for document retrieval by performing a semantic analysis and enrichment (via PIKES) of the query and the documents
- TEX-OWL (<https://github.com/dkmfbk/TexOwl>): a new syntax that can be used to write OWL 2 ontologies

2.6.2 Ontologies

- The BPMN Ontology (<http://marcorospoche.com/backup-resources/bpmn/>): a formalization in OWL-DL of the structural components of the Business Process Modelling Notation (BPMN), based on the latest stable BPMN specifications from OMG [BPMN Version 1.1 - January 2008]
- The PESCaDO Ontology (<https://marcorospoche.com/backup-resources/pescado/>): a modular OWL ontology capable of representing all the content processed and produced by a system providing user-tailored environmental decision support
- The Event and Situation Ontology (ESO) (<https://github.com/newsreader/eso>): a resource which formalizes the pre and post conditions of events and the roles of the entities affected by an event
- PreMOn - Predicate Model for Ontologies (<https://premon.fbk.eu/>): a linguistic Linked Data resource representing predicate models such as PropBank, NomBank, VerbNet and FrameNet

2.7 Professional Services

2.7.1 Journal Editorial Boards

- Guest Co-editor of the Special Issue “Knowledge and Language Processing” of Information Processing & Management (Elsevier Journal).
<http://bit.ly/klp-ipm>

- Guest Co-editor of the Special Issue “Applied Cognitive Computing: Challenges, Approaches, and Real-World Experiences” of Progress In Artificial Intelligence (Springer Journal).
<https://link.springer.com/article/10.1007/s13748-018-0166-4>

2.7.2 Journal Reviewing

- ACM Transactions on Intelligent Systems and Technology (ACM TIST)
- Applied Ontology (AO)
- IEEE Internet Computing (IEEE IC)
- Information Systems (IS)
- International Journal of Semantic Computing (IJSC)
- International Journal of Software Engineering and Knowledge Engineering (IJSEKE)
- Journal of Data Semantics (JDS)
- Journal of Information Science (JIS)
- Journal of Web Semantics (JWS)
- Natural Language Engineering (NLE)
- Semantic Web Journal (SWJ)

2.7.3 Conference / Workshop Organization

- Co-chair of the special track on Knowledge and Language Processing (KLP) at the 34th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2019) [April 8-12, 2019, Limassol, Cyprus]
- Co-chair of Doctoral Consortium of the 17th International Conference of the Italian Association for Artificial Intelligence (AI*IA 2018) [November 20-23, 2018, Trento, Italy]
- Co-chair of the special track on Cognitive Computing (CoCo) at the 33rd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2018) [April 9-13, 2018, Pau, France]
- Co-chair of the special track on Cognitive Computing (CoCo) at the 32nd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2017) [March 27-31, 2017, Marrakech, Morocco]
- Co-Chair of the Posters and Demos track of the 13th International Semantic Web Conference (ISWC2014) [October 19-23, 2014, Riva del Garda, Italy]
- Co-chair of the 4th International Workshop on Detection, Representation, and Exploitation of Events in the Semantic Web (DeRiVE 2015), co-located with ESWC2015 [May 31, 2015, Portoroz, Slovenia]

2.7.4 Conference / Workshop Program Committees

- International Joint Conference on Artificial Intelligence (IJCAI) and European Conference on Artificial Intelligence (ECAI): 2018, 2019
- AAAI Conference on Artificial Intelligence (AAAI): 2018, 2019
- The Web Conference (WWW) [formerly: International World Wide Web Conference]:
 - Semantics and Knowledge (Research Track): 2019
 - Web Content Analysis, Semantics, and Knowledge (Research Track): 2018

- Posters Track: 2016
- International Semantic Web Conference (ISWC):
 - Research Track (Senior PC Member): 2019
 - Research Track: 2014, 2015, 2016, 2017, 2018
 - Resource Track: 2017
 - InUse & Software track: 2015
 - InUse: 2012, 2013, 2014
 - Posters and Demos Track: 2009, 2014, 2015
- Annual Meeting of the Association for Computational Linguistics (ACL):
 - Resources and Evaluation Track: 2019
- International Conference on Knowledge Engineering and Knowledge Management (EKAW):
 - Research Track: 2012, 2014, 2016, 2018
 - PhD Symposium (+ Mentoring): 2012, 2014
- Joint Conference on Lexical and Computational Semantics (*SEM): 2017 (Lexical resources, linked data, ontologies Track)
- European/Extended Semantic Web Conference (ESWC):
 - Main PC: 2017
 - Ontology Track: 2012
 - PhD Mentor: 2016
 - Posters & Demos: 2010
- International Conference on Formal Ontology in Information Systems (FOIS): 2014 (Early Career Symposium)
- IEEE International Conference on Semantic Computing (IEEE-ICSC): 2012, 2013, 2014, 2015, 2016, 2017, 2018
- Language Resources and Evaluation Conference (LREC): 2016, 2018
- International Conference on Semantic Systems (I-SEMANTICS): 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018
- Conference on Language, Data and Knowledge (LDK): 2019
- International Conference on Bio-inspired Information and Communications Technologies (BICT): 2014
- International Workshop on Personalization in eGovernment Services and Applications (PEGOV): 2013, 2014, 2015
- Joint OWL Experiences and Directions Workshop (OWLED) and OWL Reasoner Evaluation Workshop (ORE): 2016
- OWL: Experiences and Directions Workshop (OWLED): 2015
- Open Knowledge Base and Question Answering Workshop (OKBQA): 2016
- International Workshop on Ontology Content (OnToContent): 2012, 2013, 2014, 2015

- Workshop on the Contextual Representation of Objects and Events in Language (CREOL): 2017
- International Conference on Building and Exploring Web Based Environments (WEB): 2014, 2015, 2016
- International Conference on Advances in Semantic Processing (SEMAPRO): 2013, 2014, 2015, 2016
- Workshop on Natural Language for Artificial Intelligence (NL4AI): 2017
- International Workshop on Environmental Multimedia Retrieval: 2014, 2015
- Workshop on Semantic Web and Information Extraction (SWAIE) 2013, 2014
- International Symposium on Intelligent Informatics (ISI): 2013
- International Workshop on Vocabularies, Ontologies and Rules for the Enterprise and Beyond (VORTE): 2013
- International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA): 2012
- International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS): 2012
- Workshop on Context, Information And Ontologies (CIAO): 2010

3 Teaching Activities

3.1 Supervision of Ph.D. Theses

- Co-advisor of Matteo Lorenzini - Thesis's Topic: *Computer assisted curation of digital cultural heritage repositories* (ICT School, University of Trento, 2017 - present)
- Advisor of Giulio Petrucci - Thesis's Title: *Learning to Learn Concept Descriptions* (ICT School, University of Trento, 2013 - 2018) [Now Working at: Google Zurich]
- Co-advisor of Francesco Corcoglioniti - Thesis's Title: *Frame-based Ontology Population from Text: Models, Systems and Applications* (ICT School, University of Trento, 2012 - 2016) [Now Working at: FBK]

3.2 Supervision of Master Theses

- Co-advisor of Yiqing Liang - Thesis's Title: *Exploiting a Knowledge-Based Probabilistic Model for Optimally Combining Alternative Nerc and Entity Linking Candidate Annotations on the same Textual Mention* (LCT European Masters Program, University of Trento, 2017)
- Co-advisor of Matteo Matassoni - Thesis's Title: *Supporting the construction of OWL2 ontologies in a latex-like manner* (M.Sc. in Computer Science, University of Trento, 2014)
- Co-advisor of Musawar Saeed - Thesis's Title: *Collaborative Specification of Semantically Annotated Business Processes* (M.Sc. in Computer Science, University of Trento, 2011)
- Co-advisor of Md. Kamrul Hasan - Thesis's Title: *Integrating Ontological Representation of Process in a Collaborative Environment* (M.Sc. in Computer Science, University of Trento, 2009)
- Co-advisor of Nahid E Mahbub - Thesis's Title: *Collaborative processes modelling in MoKi* (M.Sc. in Computer Science, University of Trento, 2009)
- Co-advisor of Rakebul Hasan - Thesis's Title: *CliP-MoKi: A Collaborative Tool for the Modeling of Clinical Guidelines* (M.Sc. in Computer Science, University of Trento, 2009)

3.3 Supervision of Bachelor Theses

- Co-advisor of Marco Spanò - Thesis's Title: *MoKi 4.0: Refactoring di un tool collaborativo per l'editing di ontologie* (Bachelor in Computer Science, University of Trento, 2018)

3.4 Supervision of Stages / Internship

- Supervisor of Gianluca Maguolo (3 months, post-Master Research Internship, 2018)
- Supervisor of Yiqing Liang (3 months, LCT European Masters Program, University of Trento, 2017)
- Supervisor of Alessio Scussel (3 months, Bachelor of Computer Science, University of Trento, 2016)
- Supervisor of Enrico Magnago (3 months, Bachelor of Computer Science, University of Trento, 2015)
- Supervisor of Gianluca Apriceno (3 months, Bachelor of Computer Science, University of Trento, 2015)
- Co-supervisor of Md. Kamrul Hasan (6 months, M.Sc. in Computer Science, University of Trento, 2009)
- Co-supervisor of Nahid E Mahbub (6 months, M.Sc. in Computer Science, University of Trento, 2008)

3.5 Lectureship

- Academic Year: 2018 - 2019
 - *Electronic commerce (A-L)* - Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
 - *Electronic commerce (M-Z)* - Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
- Academic Year: 2012 - 2013
 - *Language Resources and Ontologies* (co-lecturer: Dr. Sara Tonelli) - Master Degree in Filosofia e linguaggi della modernità, University of Trento, Italy
- Additionally, I gave lectures for the following courses / schools:
 - First Interdisciplinary Summer School on Ontological Analysis, IAOA, Trento (2012)
 - Course *Language Resources and Ontologies*, Master in Human Language Technology and Interface, University of Trento (2010-2011, 2011-2012)
 - International Winter Camp on Language and Data/Knowledge, TrentoRise (2012)
 - Course *Computational Linguistics*, M.Sc. in Cognitive Science, University of Trento (2012)
 - Course *Business Process Re-engineering*, M.Sc. in Net Economics, University of Trento (2010, 2011)
 - Course *Computational Complexity*, M.Sc. in Computer Science, University of Trento (2004, 2005)

4 Publications

4.1 Bibliometrics Indicators

Google Scholar

- Citations: 1089
- H-index: 20
- i10-Index: 37

Scopus

- Citations: 597
- H-index (incl. self-citation): 14
- H-index (excl. self-citation): 11

4.2 Journals

16. **Marco Rospo**cher, Francesco Corcoglioniti, and Mauro Dragoni. Boosting Document Retrieval with Knowledge Extraction and Linked Data. *Semantic Web - Interoperability, Usability, Applicability* (To appear)
URL: <http://semantic-web-journal.org/content/boosting-document-retrieval-knowledge-extraction-and-linked-data-1>
15. **Marco Rospo**cher, Francesco Corcoglioniti, and Alessio Palmero Aprosio. PreMON: LODifying Linguistic Predicate Models. *Language Resources and Evaluation* (to appear)
DOI: 10.1007/s10579-018-9437-8
URL: <https://link.springer.com/article/10.1007/s10579-018-9437-8>
14. Giulio Petrucci, **Marco Rospo**cher, and Chiara Ghidini. Expressive Ontology Learning as Neural Machine Translation. *Journal of Web Semantics*, vol. 52-53:66-82. Elsevier B.V.. ISSN: 1570-8268 (2018)
DOI: 10.1016/j.websem.2018.10.002
URL: <https://www.sciencedirect.com/science/article/pii/S1570826818300507>
13. Francesco Corcoglioniti, **Marco Rospo**cher, and Alessio Palmero Aprosio. Frame-Based Ontology Population with PIKES. *IEEE Transactions on Knowledge and Data Engineering*, vol. 28(12):3261–3275. IEEE. ISSN: 1041-4347 (2016)
DOI: 10.1109/TKDE.2016.2602206
URL: <https://ieeexplore.ieee.org/document/7549111/>
12. Piek Vossen, Rodrigo Agerri, Itziar Aldabe, Agata Cybulska, Marieke van Erp, Antske Fokkens, Egoitz Laparra, Anne-Lyse Minard, Alessio Palmero Aprosio, German Rigau, **Marco Rospo**cher, and Roxane Segers. NewsReader: Using knowledge resources in a cross-lingual reading machine to generate more knowledge from massive streams of news. *Knowledge-Based Systems*, vol. 110:60–85. Elsevier B.V.. ISSN: 0950-7051 (2016)
DOI: 10.1016/j.knosys.2016.07.013
URL: <http://www.sciencedirect.com/science/article/pii/S0950705116302271>

11. **Marco Rospo**cher, Marieke van Erp, Piek Vossen, Antske Fokkens, Itziar Aldabe, German Rigau, Aitor Soroa, Thomas Ploeger, and Tessel Bogaard. Building Event-Centric Knowledge Graphs from News. *Web Semantics: Science, Services and Agents on the World Wide Web*, vol. 37–38:132–151. Elsevier B.V.. ISSN: 1570-8268 (2016)
DOI: 10.1016/j.websem.2015.12.004
URL: <http://www.sciencedirect.com/science/article/pii/S1570826815001456>
10. Sofia Cramerotti, Massimo Turrini, Marco Buccio, Silvia Larentis, **Marco Rospo**cher, Luciano Serafini, Elena Cardillo, and Ivan Donadello. ePlanning: an Ontology-based System for Building Individualized Education Plans for Students with Special Educational Needs. *MED – Media Education*, vol. 6(1):101–110. Edizioni Centro Studi Erickson S.p.a.. ISSN: 2038-3002 (2015)
URL: http://riviste.erickson.it/med/wp-content/uploads/07_Cramerotti_I.2015_fin.pdf
9. Francesco Corcoglioniti, **Marco Rospo**cher, Roldano Cattoni, Bernardo Magnini, and Luciano Serafini. The KnowledgeStore: a Storage Framework for Interlinking Unstructured and Structured Knowledge. *International Journal on Semantic Web and Information Systems*, vol. 11(2):1–35. IGI Global. ISSN: 1552-6283; 1552-6291 (2015)
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8. Leo Wanner, Harald Bosch, Nadjat Bouayad-Agha, Gerard Casamayor, Thomas Ertl, Desiree Hilbring, Lasse Johansson, Kostas Karatzas, Ari Karppinen, Ioannis Kompatsiaris, Tarja Koskentalo, Simon Mille, Jürgen Moßgraber, Anastasia Moutzidou, Maria Myllynen, Emanuele Pianta, **Marco Rospo**cher, Luciano Serafini, Virpi Tarvainen, Sara Tonelli, and Stefanos Vrochidis. Getting the environmental information across: from the Web to the user. *Expert Systems*, vol. 32(3):405–432. John Wiley & Sons Ltd. ISSN: 1468-0394 (2015)
DOI: 10.1111/exsy.12100
URL: <https://onlinelibrary.wiley.com/doi/abs/10.1111/exsy.12100>
7. Leo Wanner, **Marco Rospo**cher, Stefanos Vrochidis, Lasse Johansson, Nadjat Bouayad-Agha, Gerard Casamayor, Ari Karppinen, Ioannis Kompatsiaris, Simon Mille, Anastasia Moutzidou, and Luciano Serafini. Ontology-centered environmental information delivery for personalized decision support. *Expert Systems with Applications*, vol. 42(12):5032–5046. Elsevier B.V.. ISSN: 0957-4174 (2015)
DOI: 10.1016/j.eswa.2015.02.048
URL: <http://www.sciencedirect.com/science/article/pii/S0957417415001554>
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URL: <https://www.computer.org/csdl/journal/tk/2014/12/06776520/13rRUwbs1SV>
5. Chiara Ghidini, Chiara Di Francescomarino, **Marco Rospo**cher, Paolo Tonella, and Luciano Serafini. Semantics-Based Aspect-Oriented Management of Exceptional Flows in Business Processes. *IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews*, vol. 42(1):25–37. IEEE. ISSN: 1094-6977 (2012)
DOI: 10.1109/TSMCC.2011.2138133
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4. Chiara Ghidini, **Marco Rospocher**, and Luciano Serafini. Modeling in a Wiki with MoKi: Reference Architecture, Implementation, and Usages. *International Journal On Advances in Life Sciences*, vol. 4(3&4):111–124. IARIA. ISSN: 1942-2660 (2012)
URL: https://www.ariajournals.org/life_sciences/tocv4n34.html
3. **Marco Rospocher**, Sara Tonelli, Luciano Serafini, and Emanuele Pianta. Corpus-based Terminological Evaluation of Ontologies. *Applied Ontology*, vol. 7(4):429–448. IOS Press. ISSN: 1570-5838; 1875-8533 (2012)
DOI: 10.3233/AO-2012-0114
URL: <https://content.iospress.com/articles/applied-ontology/ao114>
2. Chiara Di Francescomarino, Chiara Ghidini, **Marco Rospocher**, Luciano Serafini, and Paolo Tonella. A framework for the collaborative specification of semantically annotated business processes. *Journal of Software Maintenance and Evolution: Research and Practice*, vol. 23(4):261–295. John Wiley & Sons Ltd. ISSN: 1532-0618 (2011)
DOI: 10.1002/smr.525
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DOI: 10.1016/j.disc.2006.01.024
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4.3 Book Chapters

3. Francesco Corcoglioniti, **Marco Rospocher**, Roldano Cattoni, Bernardo Magnini, and Luciano Serafini. Managing Large Volumes of Interlinked Text and Knowledge With the Knowledge-Store. In Miltiadis D. Lytras, Naif R Aljohani, Ernesto Damiani, and Kwok Tai Chui (editors), *Innovations, Developments, and Applications of Semantic Web and Information Systems*, chapter 2, pages 32–61. IGI Global. ISBN: 9781522550426; 1522550429; 9781522550433 (2018)
DOI: 10.4018/978-1-5225-5042-6.ch002
URL: <https://www.igi-global.com/gateway/chapter/196434>
2. Alessio Palmero Arosio, Francesco Corcoglioniti, Mauro Dragoni, and **Marco Rospocher**. Supervised Opinion Frames Detection with RAID. In Fabien Gandon, Elena Cabrio, Milan Stankovic, and Antoine Zimmermann (editors), *Semantic Web Evaluation Challenges*, pages 251–263. Springer International Publishing. ISBN: 978-3-319-25517-0 (2015)
DOI: 10.1007/978-3-319-25518-7_22
URL: https://link.springer.com/chapter/10.1007/978-3-319-25518-7_22
1. Michael Erdmann, Daniel Hansch, Viktoria Pammer, **Marco Rospocher**, Chiara Ghidini, Stefanie Lindstaedt, and Luciano Serafini. Applications of Semantic Wikis. In Paul Warren, John Davies, and Elena Simperl (editors), *Context and Semantics for Knowledge Management: Technologies for Personal Productivity*, chapter 12, pages 229–254. Springer-Verlag. ISBN: 978-3-642-19509-9; 978-3-642-19510-5 (2011)
DOI: 10.1007/978-3-642-19510-5_12
URL: http://link.springer.com/content/pdf/10.1007/978-3-642-19510-5_12

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46. **Marco Rospo**cher. An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations. In Denny Vrandečić, Kalina Bontcheva, Mari Carmen Suárez-Figueroa, Valentina Presutti, Irene Celino, Marta Sabou, Lucie-Aimée Kaffee, and Elena Simperl (editors), *The Semantic Web - ISWC 2018 - 17th International Semantic Web Conference, Monterey, CA, USA, October 8-12, 2018, Proceedings, Part I*, vol. 11136 of *Lecture Notes in Computer Science*, pages 144–161. Springer (2018)
DOI: 10.1007/978-3-030-00671-6_9
URL: https://link.springer.com/chapter/10.1007%2F978-3-030-00671-6_9
45. Mauro Dragoni, **Marco Rospo**cher, Tania Bailoni, Rosa Maimone, and Claudio Eccher. Semantic Technologies for Healthy Lifestyle Monitoring. In Denny Vrandečić, Kalina Bontcheva, Mari Carmen Suárez-Figueroa, Valentina Presutti, Irene Celino, Marta Sabou, Lucie-Aimée Kaffee, and Elena Simperl (editors), *The Semantic Web - ISWC 2018 - 17th International Semantic Web Conference, Monterey, CA, USA, October 8-12, 2018, Proceedings, Part II*, vol. 11137 of *Lecture Notes in Computer Science*, pages 307–324. Springer (2018)
DOI: 10.1007/978-3-030-00668-6_19
URL: https://link.springer.com/chapter/10.1007%2F978-3-030-00668-6_19
44. **Marco Rospo**cher and Francesco Corcoglioniti. Joint Posterior Revision of NLP Annotations via Ontological Knowledge. In *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence, IJCAI-18*, pages 4316–4322. International Joint Conferences on Artificial Intelligence Organization. ISBN: 978-0-9992411-2-7 (2018)
DOI: 10.24963/ijcai.2018/600
URL: <https://www.ijcai.org/proceedings/2018/600>
43. Stefano Borgo, Loris Bozzato, Alessio Palmero Arosio, **Marco Rospo**cher, and Luciano Serafini. Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning. In *Proceedings of the Symposium on Applied Computing of SAC '17*, pages 353–355. ACM. ISBN: 978-1-4503-4486-9 (2017)
DOI: 10.1145/3019612.3019916
URL: <https://dl.acm.org/citation.cfm?id=3019916>
42. Francesco Corcoglioniti, **Marco Rospo**cher, and Alessio Palmero Arosio. A 2-phase Frame-based Knowledge Extraction Framework. In *Proceedings of the 31st Annual ACM Symposium on Applied Computing, Pisa, Italy, April 4-8, 2016*, pages 354–361. ACM. ISBN: 978-1-4503-3739-7 (2016)
DOI: 10.1145/2851613.2851845
URL: <https://dl.acm.org/citation.cfm?id=2851845>
41. Roxane Segers, **Marco Rospo**cher, Piek Vossen, Egoitz Laparra, German Rigau, and Anne-Lyse Minard. The Event and Implied Situation Ontology (ESO): Application and Evaluation. In Nicoletta Calzolari, Khalid Choukri, Thierry Declercq, Marko Grobelnik, Bente Maegaard, Joseph Mariani, Asuncion Moreno, Jan Odijk, and Stelios Piperidis (editors), *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*, pages 1463–1470. European Language Resources Association (ELRA). ISBN: 978-2-9517408-9-1 (2016)
URL: <http://www.lrec-conf.org/proceedings/lrec2016/pdf/722.Paper.pdf>
40. Francesco Corcoglioniti, **Marco Rospo**cher, Alessio Palmero Arosio, and Sara Tonelli. Pre-MOn: a Lemon Extension for Exposing Predicate Models as Linked Data. In Nicoletta Calzolari,

- Khalid Choukri, Thierry Declerck, Marko Grobelnik, Bente Maegaard, Joseph Mariani, Asuncion Moreno, Jan Odijk, and Stelios Piperidis (editors), *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*, pages 877–884. European Language Resources Association (ELRA). ISBN: 978-2-9517408-9-1 (2016)
URL: <http://www.lrec-conf.org/proceedings/lrec2016/pdf/854.Paper.pdf>
39. Roxane Segers, Egoitz Laparra, **Marco Rospoche**r, Piek Vossen, German Rigau, and Filip Ilievski. The Predicate Matrix and the Event and Implied Situation Ontology: Making More of Events. In *Proceedings of the Eighth Global WordNet Conference (Bucharest, Romania, January 27-30, 2016)*, pages 360–368. ISBN: 978-973-0-20728-6 (2016)
URL: <http://gwc2016.racai.ro/proceedings.html>
38. Francesco Corcoglioniti, Mauro Dragoni, **Marco Rospoche**r, and Alessio Palmero Aprosio. Knowledge Extraction for Information Retrieval. In Harald Sack, Eva Blomqvist, Mathieu d’Aquin, Chiara Ghidini, Simone Paolo Ponzetto, and Christoph Lange (editors), *The Semantic Web. Latest Advances and New Domains - 13th International Conference, ESWC 2016, Heraklion, Crete, Greece, May 29 - June 2, 2016, Proceedings*, vol. 9678 of *Lecture Notes in Computer Science*, pages 317–333. Springer. ISBN: 978-3-319-34128-6, 978-3-319-34129-3 (2016)
DOI: 10.1007/978-3-319-34129-3_20
URL: https://link.springer.com/chapter/10.1007/978-3-319-34129-3_20
37. Giulio Petrucci, Chiara Ghidini, and **Marco Rospoche**r. Ontology Learning in the Deep. In Eva Blomqvist, Paolo Ciancarini, Francesco Poggi, and Fabio Vitali (editors), *Knowledge Engineering and Knowledge Management - 20th International Conference, EKAW 2016, Bologna, Italy, November 19-23, 2016, Proceedings*, vol. 10024 of *Lecture Notes in Computer Science*, pages 480–495. ISBN: 978-3-319-49003-8, 978-3-319-49004-5 (2016)
DOI: 10.1007/978-3-319-49004-5_31
URL: https://link.springer.com/chapter/10.1007/978-3-319-49004-5_31
36. Francesco Corcoglioniti, **Marco Rospoche**r, Michele Mostarda, and Marco Amadori. Processing Billions of RDF Triples on a Single Machine using Streaming and Sorting. In *Proceedings of the 30th Annual ACM Symposium on Applied Computing of SAC '15*, pages 368–375. ACM. ISBN: 978-1-4503-3196-8 (2015)
DOI: 10.1145/2695664.2695720
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35. Francesco Corcoglioniti, Alessio Palmero Aprosio, and **Marco Rospoche**r. Demonstrating the Power of Streaming and Sorting for Non-distributed RDF Processing: RDFpro. In *Proceedings of the ISWC 2015 Posters & Demonstrations Track co-located with the 14th International Semantic Web Conference (ISWC-2015)*, vol. 1486 of *CEUR Proceedings*. CEUR-WS.org. ISSN: 1613-0073 (2015)
URL: http://ceur-ws.org/Vol-1486/paper_52.pdf
34. Francesco Corcoglioniti, **Marco Rospoche**r, and Alessio Palmero Aprosio. Extracting Knowledge from Text with PIKES. In *Proceedings of the ISWC 2015 Posters & Demonstrations Track co-located with the 14th International Semantic Web Conference (ISWC-2015)*, vol. 1486 of *CEUR Proceedings*. CEUR-WS.org. ISSN: 1613-0073 (2015)
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31. Sofia Cramerotti, Marco Buccio, Giampiero Vaschetto, **Marco Rospoche**r, Luciano Serafini, Elena Cardillo, and Ivan Donadello. ePlanning: an Ontology-based System for Building Individualized Education Plans for Students with Special Educational Needs. In *Proceedings of the Industry Track at the International Semantic Web Conference 2014 (ISWC 2014), Riva del Garda, Italy, October 19-23, 2014*, vol. 1383 of *CEUR Proceedings*. CEUR-WS.org. ISSN: 1613-0073 (2014)
URL: <http://ceur-ws.org/Vol-1383/paper7.pdf>
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29. **Marco Rospoche**r, Francesco Corcoglioniti, Roldano Cattoni, Bernardo Magnini, and Luciano Serafini. Integrating NLP and SW with the KnowledgeStore. In *ISWC 2014 Posters & Demonstrations Track, within the 13th International Semantic Web Conference (ISWC 2014), Riva del Garda, Italy, October 21, 2014*, vol. 1272 of *CEUR Proceedings*, pages 69–72. CEUR-WS.org. ISSN: 1613-0073 (2014)
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27. **Marco Rospoche**r, Chiara Ghidini, and Luciano Serafini. An ontology for the Business Process Modelling Notation. In Pawel Garbacz and Oliver Kutz (editors), *Formal Ontology in Information Systems - Proceedings of the Eighth International Conference, FOIS2014, September, 22-25, 2014, Rio de Janeiro, Brazil*, vol. 267, pages 133–146. IOS Press. ISBN: 978-1-61499-437-4; 978-1-61499-438-1 (2014)
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