

# Marco Rospocher

## CURRICULUM VITAE

(Updated: November 15, 2022)

### 1 General Information

#### 1.1 Personal Data

SURNAME: Rospocher

NAME: Marco

NATIONALITY: Italian

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WORK E-MAIL: [marco.rospocher@univr.it](mailto:marco.rospocher@univr.it)

HOME PAGE: <https://marcorospocher.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/Rospocher: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://marcorospocher.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 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

- Knowledge representation and reasoning with ontologies (Commonsense Reasoning in Surgical Robotics (COSUR summer school) - May 3, 2022, Verona, Italy)  
Slides [http://marcorospocher.com/files/slides/2022cosur\\_slides.pdf](http://marcorospocher.com/files/slides/2022cosur_slides.pdf)
- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge (Montreal Natural Language Processing Consortium (MTL-NLP) - January 22, 2021, Montreal, Canada)  
Slides <http://marcorospocher.com/files/slides/2021mtl.pdf>  
Video Recording: <https://www.youtube.com/watch?t=274&v=L8rn6nt7mNE>
- Modelling, learning and populating ontologies for the Semantic Web (Department of Computer Science, University of Verona - December 4, 2019, Verona, Italy)  
Slides [https://marcorospocher.com/files/slides/2019DIuniVR\\_slides.pdf](https://marcorospocher.com/files/slides/2019DIuniVR_slides.pdf)
- 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](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](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](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](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://marcorospoche.com/files/slides/2015dati\\_slides.pdf](https://marcorospoche.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://marcorospoche.com/files/slides/2015jpn\\_slides.pdf](https://marcorospoche.com/files/slides/2015jpn_slides.pdf)
- Semantic Management in PESCADO (PESCADO Final Event - February 14, 2012, UPF, Barcelona, Spain)  
Slides: [https://marcorospoche.com/files/slides/2012pescado\\_slides.pdf](https://marcorospoche.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://marcorospoche.com/files/slides/2011bmir\\_slides.pdf](https://marcorospoche.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](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](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](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](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](https://marcorospoche.com/files/slides/2006itc_slides.pdf)

### 2.3.2 Conference Talks

- La Traduzione di Schede Terminologiche in Banche Dati di Tipo Rete Lessicale: il caso DIACOM-Fr (XXXI Convegno Associazione Italiana per la Terminologia, Verona, Italy, December 10, 2021)
- Ontologie e locuzioni: modellizzazione di termini complessi nell'ambito del progetto DIACOM (XXX Convegno Associazione Italiana per la Terminologia, Bolzano, Italy, October 15-16, 2020)
- 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](https://marcorospoche.com/files/slides/2018iswc_research_slides.pdf)  
Video Recording: [http://videolectures.net/iswc2018\\_ospoche\\_ontology\\_driven\\_soft/](http://videolectures.net/iswc2018_ospoche_ontology_driven_soft/)
- 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](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](https://marcorospoche.com/files/slides/2016eswc_slides.pdf)  
Video Recording: [http://videolectures.net/eswc2016\\_ospoche\\_information\\_retrieval/](http://videolectures.net/eswc2016_ospoche_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://marcorospoher.com/files/slides/2015sac\\_slides.pdf](https://marcorospoher.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, Linkoping, Sweden)  
Slides: [https://marcorospoher.com/files/slides/2014ekaw\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2014ksem\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2014foisbpmn\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2014foisescado\\_slides.pdf](https://marcorospoher.com/files/slides/2014foisescado_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://marcorospoher.com/files/slides/2013icsc\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2012jist\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2012ekaw\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2012eknow\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2011icsc\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2008icsoc\\_slides.pdf](https://marcorospoher.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://marcorospoher.com/files/slides/2008isemantics\\_slides.pdf](https://marcorospoher.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://marcorospocher.com/files/slides/2014iswcSemDev02\\_slides.pdf](https://marcorospocher.com/files/slides/2014iswcSemDev02_slides.pdf)
- MoKi: the Modelling wiKi (SemWiki2009 - Fourth Workshop on Semantic Wikis, June 1, 2009, Heraklion, Crete, Greece)  
Slides: [https://marcorospocher.com/files/slides/2009semwiki\\_slides.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2017sac\\_poster.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2015iswcdemo2\\_poster.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2015iswcdemo1\\_poster.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2014ekawdemo\\_poster.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2012ekawdemo\\_poster.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2010ekawdemo\\_2\\_poster.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2009eswcdemo\\_poster.pdf](https://marcorospocher.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://marcorospocher.com/files/posters/2008ekaw\\_poster.pdf](https://marcorospocher.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

- NexusLinguarum (COST Action, CA18209, 2019-2023)  
Site: <https://nexuslinguarum.eu/>  
Role: Member of Working Groups WG1 & WG2
- Progetto di Eccellenza: Le Digital Humanities applicate alle lingue e letterature straniere (MIUR, 01.2018-12.2022)  
Site: <http://www.dlls.univr.it/?ent=progetto&id=5327>  
Role: Team Leader of the project "Spazi e Piattaforme Digitali", for the Department of Foreign Languages and Literatures of the University of Verona
- 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](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](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](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<sub>PRO</sub> (<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
- **Explicit Lyrics Detectors** (<https://github.com/rospoche/explicit-lyrics-detection/>): a suite of classifiers (e.g., Logistic Regression, FastText, 1D-CNN, BERT) to automatically assess whether the lyrics of songs contain explicit content. Besides the Python code for training and evaluating the classifiers, pre-trained, ready-to-use models are made available, both for English and Italian.

### 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

### 2.6.3 Linguistic Resources

- **Robotic Surgery Propositional Bank (RSPB) dataset** (<https://gitlab.com/altairLab/robotic-surgery-propositional-bank>). The Robotic Surgery Propositional Bank is a linguistic resource, extending PropBank, that collects lemmas, rolesets (i.e., senses), and roles for propositions specific to the robotic-surgery domain.

### 2.6.4 Datasets

- **VTKEl** (<https://doi.org/10.6084/m9.figshare.7882781.v6>): VTKEl, derived from Flickr30k-Entities dataset, consists of documents composed of a picture and five corresponding descriptions captioning it. Visual and textual mentions of each picture and captions are annotated and aligned to entities typed with classes from YAGO.
- **Annotated dataset to assess the accuracy of the textual description of cultural heritage records** (<https://doi.org/10.6084/m9.figshare.13359104.v1>): the dataset contains more than 100K textual descriptions of cultural items from Cultura Italia, the Italian National Cultural aggregator. Each of the description is labeled either HIGH or LOW quality, according its adherence to the standard cataloguing guidelines provided by Istituto Centrale per il Catalogo e la Documentazione (ICCD).
- **Surgical Procedural Knowledge Sentences (SPKS) dataset** (<https://gitlab.com/altairLab/spks-dataset>): SPKS is a textual dataset for the surgical robotic field consisting of 1958 sentences (37022 words and 3999 unique words) manually annotated as procedural and non-procedural by an expert annotator.
- **Explicit lyrics datasets** (<https://github.com/rospoche/explicit-lyrics-detection/>): Two annotated datasets, one for English lyrics (807K songs) and one for Italian lyrics (37K songs), built starting from Spotify and LyricWiki content, to support the training and evaluation of automatic tools for detecting explicit song lyrics, i.e., lyrics whose content is unsuitable for children.

## **2.7 Professional Services**

### **2.7.1 Journal Editorial Boards**

- Member of the Editorial Board of Information Processing & Management (Elsevier Journal).  
<https://www.journals.elsevier.com/information-processing-and-management/editorial-board>
- Guest Co-editor of the Special Issue “Knowledge and Language Processing” of Information Processing & Management (Elsevier Journal). The selected articles (DOIs: 10.1016/j.ipm.2019.102133, 10.1016/j.ipm.2019.102148, 10.1016/j.ipm.2019.102173, 10.1016/j.ipm.2020.102217) appeared in Volume 57, Issue 6, November 2020 of the journal (<https://www.sciencedirect.com/journal/information-processing-and-management/vol/57/issue/6>).
- Guest Co-editor of the Special Issue “Applied Cognitive Computing: Challenges, Approaches, and Real-World Experiences” of Progress In Artificial Intelligence (Springer Journal). The selected articles (DOIs: 10.1007/s13748-018-0160-x, 10.1007/s13748-018-0162-8, 10.1007/s13748-018-0163-7, 10.1007/s13748-018-0164-6) appeared in Volume 7, issue 4, December 2018 of the journal (<https://link.springer.com/journal/13748/volumes-and-issues/7-4>)

### **2.7.2 Journal Reviewing**

- ACM Transactions on Intelligent Systems and Technology (ACM TIST)
- Applied Ontology (AO)
- IEEE Internet Computing (IEEE IC)
- Information Processing & Management (IP&M)
- 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)
- Umanistica Digitale (UD)

### **2.7.3 Conference / Workshop Organization**

- Co-chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 37th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2022) [April 25-29, 2022, Brno, Czech Republic]  
<http://klp.fbk.eu>
- Co-chair of the special track on Knowledge and Language Processing (KLP) at the 36th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2021) [March 22-26, 2021, Gwangju, South Korea]  
<https://doi.org/10.1145/3462420>

- Co-chair of the special track on Knowledge and Language Processing (KLP) at the 35th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2020) [March 30-April 3, 2020, Brno, Czech Republic]  
<http://doi.org/10.1145/3389659>
- 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]  
<https://doi.org/10.1145/3329375>
- 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]  
<http://ceur-ws.org/Vol-2249/>
- 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]  
<https://doi.org/10.1145/3258634>
- 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]  
<https://doi.org/10.1145/3243944>
- 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]  
<http://ceur-ws.org/Vol-1363/>
- Co-Chair of the Posters and Demos track of the 13th International Semantic Web Conference (ISWC2014) [October 19-23, 2014, Riva del Garda, Italy]  
<http://ceur-ws.org/Vol-1272/>

#### **2.7.4 Conference / Workshop Program Committees**

- International Joint Conference on Artificial Intelligence (IJCAI): 2018, 2019, 2020
- AAAI Conference on Artificial Intelligence (AAAI): 2018, 2019, 2020, 2021
- The Web Conference (WWW) [formerly: International World Wide Web Conference]:
  - Semantics and Knowledge (Research Track): 2019, 2020
  - 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, 2020, 2021, 2022
  - Resource Track: 2017, 2020
  - InUse & Software track: 2015
  - InUse: 2012, 2013, 2014
  - Doctoral Consortium: 2019
  - Journal Track: 2019
  - Posters and Demos Track: 2009, 2014, 2015

- Annual Meeting of the Association for Computational Linguistics (ACL):
  - Resources and Evaluation Track: 2019
- European Conference on Artificial Intelligence (ECAI): 2020
- Information Processing & Management Conference (IP&MC): 2022
- 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, 2020, 2022
- Conference on Language, Data and Knowledge (LDK): 2019, 2021
- International Conference on Semantic Systems (I-SEMANTICS): 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018
- International Conference on Ambient Systems, Networks and Technologies (ANT): 2023
- Italian Conference on Computational Linguistics (CLIC-it): 2021
- Convegno Annuale dell'Associazione per l'Informatica Umanistica e la Cultura Digitale (AIUCD): 2020
- PhD Conference - Past, History and Memory in Language and Literary Studies (University of Verona): 2022
- International Conference on Bio-inspired Information and Communications Technologies (BICT): 2014
- International Workshop on Sentiment Analysis & Linguistic Linked Data (SALLD): 2021
- International Workshop on Multisensory Data & Knowledge (MDK): 2021
- 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

## **2.8 Scientific Consulting & Collaborations as expert**

- Scientific consulting for the "Compagnia di San Paolo" on the Artificial Intelligence in Digital Humanities topic
- Project proposal reviewing for the "Netherlands Organisation for Scientific Research" (NWO)

## **2.9 Membership of Ph.D. Programme/School Committees**

- Teaching Committee for the PhD Programme in Foreign Languages, Literatures and Linguistics (University of Verona, March 15, 2019 to September 30, 2021) - PhD Cycles: 35, 36
- Teaching Committee for the PhD Programme in Foreign Languages and Literatures (University of Verona, since October 1, 2021) - PhD Cycles: 37

## **2.10 Membership of Ph.D. Examination Committees**

- Matteo Lorenzini - Thesis's Title: *Metadata Quality Evaluation in Cultural Heritage Domain* (ICT School, University of Trento, 2022)
- Yaroslav Nechaev - Thesis's Title: *Linking Knowledge Bases to Social Media Profiles* (ICT School, University of Trento, 2019)

# **3 Institutional Activities**

- Programme Director of the Bachelor's degree in Languages and literatures for publishing and digital media (October 2021 - September 2022)

## 4 Teaching Activities

### 4.1 Supervision of Ph.D. Theses

- Co-advisor of Marco Bombieri - Thesis's Topic: *Machine understanding robotic-surgery actions from the textual description of surgical intervention procedures* (University of Verona, 2019 - present)
- Co-promotor of Roxane Segers (Promotor: prof. dr. Piek Vossen) - Thesis's Topic: *Formalizing Events for Detecting Implicit Event Information in Natural Language Text* (Vrije Universiteit, Amsterdam, 2018 - present)
- Co-advisor of Antonio Arnieri - Thesis's Title: *Sound and Identity in Shakespeare's Theatre* (University of Verona, 2018 - 2022)
- Co-advisor of Matteo Lorenzini - Thesis's Title: *Metadata Quality Evaluation in Cultural Heritage Domain* (ICT School, University of Trento, 2017 - 2022) [Now Working at: ETH Zurich]
- 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]

### 4.2 Supervision of Master's / Bachelor's Degree Theses

- Master's degree in Computer Science, University of Trento: Rakebul Hasan (2009), Nahid E Mahbub (2009), Md. Kamrul Hasan (2009), Musawar Saeed (2009), Matteo Matassoni (2014)
- LCT European Masters Program, University of Trento: Yiqing Liang (2017)
- Master's degree in Languages for Communication in Tourism and Commerce, University of Verona: Beatrice Giacomazzi (2019), Francesca Tosato (2019), Silvia Cavazza Ceccato (2020), Michela Pecora (2020), Gaia Tacchini (2020), Irina Casian (2020), Erica Fattori (2020), Elisa Benedetti (2021)
- Bachelor's degree in Computer Science, University of Trento: Marco Spanò (2018)
- Bachelor's degree in Languages and Cultures for Publishing, University of Verona: Arianna Zanrossi (2020), Federica Pampalone (2020), Francesca Tirapelle (2020), Isabella Jaforte (2021), Martina Zanetti (2021), Ester Marchi (2021), Beatrice Vanoli (2021), Chiara Lazzari (2022), Daniela Xhupi (2022), Clarita Ferri (2022)
- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona: Rebecca Guolo (2022), Amedeo Onnis (2022)
- Bachelor's degree in Languages and Cultures for Tourism and International Commerce: Francesca Laganà (2020), Lukasz Kolasowski (2020), Sara Turrini (2021)

### 4.3 Supervision of Stages / Internship

- post-Master Research Internships: Gianluca Maguolo (2018)
- LCT European Masters Program, University of Trento: Yiqing Liang (2017)
- Master's degree in Computer Science, University of Trento: Nahid E Mahbub (2008), Md. Kamrul Hasan (2009)

- Bachelor's degree in Computer Science, University of Trento: Gianluca Apriceno (2015), Enrico Magnago (2015), Alessio Scussel (2016)
- Bachelor's degree in Languages and Literatures for Publishing and Digital Media: Jasmine Touarsa (2021), Marta Cafà (2021)

#### 4.4 Lectureship

- Academic Year: 2022 - 2023
  - *Introduction to Digital Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Programming Languages for the Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Databases and Information Systems for the Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Electronic commerce* - Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
  - *Python coding* - Ph.D. School, University of Verona, Italy
- Academic Year: 2021 - 2022
  - *Introduction to Digital Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Programming Languages for the Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Databases and Information Systems for the Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Crash course on Python programming for the Humanities* - Ph.D. programme in Foreign Languages and Literatures + Ph.D. programme in Linguistics, University of Verona, Italy
- Academic Year: 2020 - 2021
  - *Digital Humanities* - Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
  - *Introduction to Digital Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Programming Languages for the Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - *Natural Language Processing for analyzing written textual resources* - Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
  - *Semantic Web and Linked Data technologies for the humanities* - Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
  - *Working with Textual Files: Encodings and Regular Expressions* - Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- Academic Year: 2019 - 2020
  - *Electronic commerce* - Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy

- *Digital Humanities* - Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
- *Introduction to Digital Humanities* - Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
- *A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research* - Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- *The eXtensible Markup Language (XML) and the Textual Encoding Initiative (TEI): standards for text representation in the humanities* - (with Dr. Anna Cappellotto) Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- 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
  - *A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research* - Ph.D. programme in Foreign Literatures, Languages and Linguistics, 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)

## 5 Publications

### 5.1 Bibliometrics Indicators

Google Scholar

- Citations: 1836
- H-index: 25
- i10-Index: 47



Scopus

- Citations: 980
- H-index (incl. self-citation): 17
- H-index (excl. self-citation): 16

## 5.2 Journals

25. **Marco Rospoher**. Detecting explicit lyrics: a case study in Italian music. *Language Resources and Evaluation* (To Appear)  
DOI: 10.1007/s10579-022-09595-3
24. **Marco Rospoher**. On exploiting transformers for detecting explicit song lyrics. *Entertainment Computing*, vol. 43:100508. ISSN: 1875-9521 (2022)  
DOI: 10.1016/j.entcom.2022.100508  
URL: <https://www.sciencedirect.com/science/article/pii/S1875952122000325>
23. Shahi Dost, Luciano Serafini, **Marco Rospoher**, Lamberto Ballan, and Alessandro Sperduti. Aligning and linking entity mentions in image, text, and knowledge base. *Data & Knowledge Engineering*. ISSN: 0169-023X (2022)  
DOI: 10.1016/j.datak.2021.101975  
URL: <https://www.sciencedirect.com/science/article/pii/S0169023X2100094X>
22. Matteo Lorenzini, **Marco Rospoher**, and Sara Tonelli. Automatically evaluating the quality of textual descriptions in cultural heritage records. *International Journal on Digital Libraries*, vol. 22(2):217–231. ISBN: 1432-1300 (2021)  
DOI: 10.1007/s00799-021-00302-1  
URL: <https://doi.org/10.1007/s00799-021-00302-1>
21. Marco Bombieri, **Marco Rospoher**, Diego Dall’Alba, and Paolo Fiorini. Automatic detection of procedural knowledge in robotic-assisted surgical texts. *International Journal of Computer Assisted Radiology and Surgery*, vol. 16:1287–1295. ISBN: 1861-6429 (2021)  
DOI: 10.1007/s11548-021-02370-9  
URL: <https://doi.org/10.1007/s11548-021-02370-9>
20. **Marco Rospoher**. Explicit song lyrics detection with subword-enriched word embeddings. *Expert Systems with Applications*, vol. 163. ISSN: 0957-4174 (2021)  
DOI: 10.1016/j.eswa.2020.113749  
URL: <http://www.sciencedirect.com/science/article/pii/S095741742030573X>
19. Matteo Lorenzini, **Marco Rospoher**, and Sara Tonelli. On assessing metadata completeness in digital cultural heritage repositories. *Digital Scholarship in the Humanities*, vol. 36(Supplement 2):ii182–ii188. ISSN: 2055-7671 (2021)  
DOI: 10.1093/llc/fqab036  
URL: [https://academic.oup.com/dsh/article-pdf/36/Supplement\\_2/ii182/41091126/fqab036.pdf](https://academic.oup.com/dsh/article-pdf/36/Supplement_2/ii182/41091126/fqab036.pdf)
18. **Marco Rospoher** and Francesco Corcoglioniti. Knowledge-driven joint posterior revision of named entity classification and linking. *Journal of Web Semantics*, vol. 65:100617. ISSN: 1570-8268 (2020)  
DOI: 10.1016/j.websem.2020.100617  
URL: <http://www.sciencedirect.com/science/article/pii/S1570826820300500>

17. Matteo Lorenzini, **Marco Rospoher**, and Sara Tonelli. Proposta per una valutazione automatica della completeness dei metadati nel contesto delle biblioteche digitali. *DigItalia*, vol. 2:159–167 (2020)  
DOI: 10.36181/digitalia-00023  
URL: <http://digitalia.sbn.it/article/view/2639>
16. **Marco Rospoher**, Francesco Corcoglioniti, and Mauro Dragoni. Boosting Document Retrieval with Knowledge Extraction and Linked Data. *Semantic Web - Interoperability, Usability, Applicability*, vol. 10(4):753–778. ISSN: 2210-4968 (2019)  
DOI: 10.3233/SW-180325  
URL: <https://content.iospress.com/articles/semantic-web/sw325>
15. **Marco Rospoher**, Francesco Corcoglioniti, and Alessio Palmero Aprosio. PreMON: LODifing Linguistic Predicate Models. *Language Resources and Evaluation*, vol. 53(3):499–524 (2019)  
DOI: 10.1007/s10579-018-9437-8  
URL: <https://link.springer.com/article/10.1007/s10579-018-9437-8>
14. Giulio Petrucci, **Marco Rospoher**, 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 Rospoher**, 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 Rospoher**, 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 Rospoher**, 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 Rospoher**, 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](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)  
DOI: 10.4018/IJSWIS.2015040101  
URL: <http://www.igi-global.com/article/the-knowledgestore/136832>
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>
6. Chiara Di Francescomarino, Chiara Ghidini, and **Marco Rospo**cher. Evaluating Wiki Collaborative Features in Ontology Authoring. *IEEE Transactions on Knowledge and Data Engineering*, vol. 26(12):2997–3011. IEEE. ISSN: 1041-4347 (2014)  
DOI: 10.1109/TKDE.2014.2312325  
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  
URL: <https://ieeexplore.ieee.org/document/5766767/>
4. Chiara Ghidini, **Marco Rospo**cher, 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.iariajournals.org/life\\_sciences/tocv4n34.html](https://www.iariajournals.org/life_sciences/tocv4n34.html)
3. **Marco Rospo**cher, 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>
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