

Marco Rospoche

CURRICULUM VITAE

(Aggiornato: 14 dicembre 2022)

1 Informazioni Generali

1.1 Dati Personali

COGNOME: Rospoche

NOME: Marco

NATIONALITÀ: Italiana

INDIRIZZO DI LAVORO: Lungadige Porta Vittoria, 41 – I-37129 Verona – Italia

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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 Istruzione

Dottorato in Informatica e Telecomunicazioni (31 Marzo 2006 – ICT School, Università di Trento, Italia)

Titolo Tesi: On the computational complexity of enumerating certificates of NP problems

Relatore di Tesi: Prof. Romeo Rizzi

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

Laurea in Matematica (27 Marzo 2002 – Università di Trento, Italia)

Titolo Tesi: All-Pairs and Matching-like Shortest Paths Algorithms

Relatore di Tesi: Prof. Romeo Rizzi

Voto Finale: 110/110 cum Laude

Note: Titolo conseguito entro la durata legale (4 anni) del corso di studi

1.3 Abilitazione Scientifica Nazionale

- Abilitazione Scientifica Nazionale a svolgere le funzioni di professore di II fascia nel settore concorsuale 01/B1 (Informatica) [5 Dicembre 2017]
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/2/3>
- Abilitazione Scientifica Nazionale a svolgere le funzioni di professore di II fascia nel settore concorsuale 09/H1 (Sistemi di Elaborazione Delle Informazioni) [5 Dicembre 2017]
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/2/3>

1.4 Occupazione Attuale

Professore Associato S.S.D. INF/01 (Informatica) presso il Dipartimento di Lingue e Letterature Straniere dell'Università degli Studi di Verona (dal Dicembre 2018).

1.5 Precedenti Esperienze di Ricerca e Lavoro

1.5.1 Esperienze di Lavoro

- Maggio 2007 - Dicembre 2018: Ricercatore presso la Fondazione Bruno Kessler (FBK), Trento, Italia. Note: Confermato a tempo indeterminato nel Dicembre 2012
- Agosto 2006 - Maggio 2007: Sviluppatore Software alla S.a.i.tec. Srl c/o Phoenix Informatica Bancaria SpA, Trento, Italia

1.5.2 Borse di Ricerca

- Novembre 2005 - Marzo 2006: Borsa di Ricerca presso il Dipartimento di Ingegneria e Scienza dell'Informazione (DISI), Università di Trento
- Maggio 2002 - Ottobre 2002: Borsa di Ricerca presso il Dipartimento di Ingegneria e Scienza dell'Informazione (DISI), Università di Trento

1.5.3 Borsa di Dottorato

- 1 Novembre 2002 – 31 Ottobre 2005: Dottorando (con Borsa) presso l'ICT School dell'Università di Trento

2 Attività di Ricerca

2.1 Interessi di Ricerca

Intelligenza Artificiale, Estrazione di Conoscenza, Semantic Web, Rappresentazione della Conoscenza e Ragionamento Automatica, Elaborazione del Linguaggio Naturale, Informatica Umanistica, Apprendimento Automatico, Reti Neurali, Metodologie e Strumenti per l'Acquisizione Collaborativa della Conoscenza, Complessità Computazionale, Teoria dei Grafi, Ottimizzazione Combinatoria

2.2 Premi

- Best Research Paper Award alla IEEE 18th International Enterprise Distributed Object Computing Conference EDOC2014 (September 1-5, 2014 - Ulm, Germany) per il contributo "The Role of Semantic Annotations in Business Process Modelling" (Chiara Di Francescomarino, Marco Rospocher, Chiara Ghidini, Andrea Valerio)
Certificato: <https://marcorospocher.com/files/awards/2014edoc.pdf>
- Runner-up Prize alla Ontology Competition della 8th International Conference on Formal Ontology in Information Systems FOIS2014 (September 22-26, 2014 - Rio de Janeiro, Brasil) per il contributo "An ontology for personalized environmental decision support" (Marco Rospocher)
Certificato: <https://marcorospocher.com/files/awards/2014fois.pdf>
- Semantic Sentiment Analysis Award (Task 3 - Frame entities Identification) alla Semantic Web Evaluation della 12th European Semantic Web Conference ESWC2015 (May 31-June 4, 2015 - Portoroz, Slovenia) per il contributo "Opinion frame extraction from news corpus" (Francesco Corcoglioniti, Alessio Palmero Aprosio, Marco Rospocher)
Certificato: <https://marcorospocher.com/files/awards/2015eswccha.pdf>
- Honorable Mention Award alla In-Use Track della 7th International Semantic Web Conference ISWC2008 (October 26-30, 2008 - Karlsruhe, Germany) per il contributo "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)

Dettagli: <https://marcorospocher.com/files/awards/2008iswc.pdf>

- Distinguished Program Committee Member alla 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018)

Dettagli: <https://www.ijcai-18.org/distinguished-members/>

2.3 Presentazioni

2.3.1 Presentazioni / Seminari su Invito

- 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/2022coser_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_slides.pdf
Video: <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/2019DluniVR_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
- 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)
Dettagli: <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://marcorospoher.com/files/slides/2011bmir_slides.pdf
- Collaborative modeling of processes and ontologies (DERI - April 7, 2011, Digital Enterprise Research Institute, Galway, Ireland)
Slides: https://marcorospoher.com/files/slides/2011deri_slides.pdf
- MoKi and the ProDe project (ICT Days - March 16, 2011, University of Trento, Trento, Italy)
Slides: https://marcorospoher.com/files/slides/2011ict_slides.pdf
- MoKi: the Modelling Wiki (ILIKS Annual Meeting - December 18, 2009, Trento, Italy)
Slides: https://marcorospoher.com/files/slides/2009iliks_slides.pdf
- Modelling in APOSDLE (ACTIVE EU Project Meeting - January 27, 2009, STI, Innsbruck, Austria)
Slides: https://marcorospoher.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://marcorospoher.com/files/slides/2006itc_slides.pdf

2.3.2 Presentazioni a Conferenza

- 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, Italia, 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://marcorospoher.com/files/slides/2018iswc_research_slides.pdf
Video: http://videlectures.net/iswc2018_ropoher_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://marcorospoher.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://marcorospoher.com/files/slides/2016eswc_slides.pdf
Video: http://videlectures.net/eswc2016_ropoher_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
- 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://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
- 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
- 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
- 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
- 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
- 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
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
- 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
- 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
- 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

2.3.3 Presentazioni a Workshop

- 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://marcorospoher.com/files/slides/2014iswcSemDev02_slides.pdf
- MoKi: the Modelling wiKi (SemWiki2009 - Fourth Workshop on Semantic Wikis, June 1, 2009, Heraklion, Crete, Greece)
Slides: https://marcorospoher.com/files/slides/2009semwiki_slides.pdf

2.3.4 Dimostrazioni e Presentazioni di Poster a Conferenza

- 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: RD-Fpro (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 Periodi di Ricerca all'Estero

- Settembre 2013 - Dicembre 2013: Visiting Scholar al Musen Lab, Stanford Center for Biomedical Informatics Research, Stanford University (referenti: Dr. Tania Tudorache, Prof. Dr. Md. Mark Musen).
Argomento di ricerca: Studio comparativo della dinamiche collaborative in vari ambienti di sviluppo per ontologie
- Gennaio 2005 - Aprile 2005: Visiting Research Associate alla School of Electrical Engineering and Computer Science, University of Newcastle, NSW, Australia (referente: Prof. Pablo Moscato).
Argomento di ricerca: Sviluppo di algoritmi di ottimizzazione combinatorica nell'ambito della biologia computazionale

2.5 Progetti di Ricerca

2.5.1 Acquisizioni

Ho contribuito all'acquisizione dei seguenti progetti di ricerca per la Fondazione Bruno Kessler (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
Contributo ricevuto da FBK: 745,000 Euro
- ePlanning (Progetto Di Ricerca Applicata, Finanziato dalla Provincia di Trento ai sensi della L.P. 13.12.1999, n. 6, art. 5, 2012-2014)
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali
Contributo ricevuto da FBK: 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
Contributo ricevuto da FBK: 225,000 Euro

2.5.2 Partecipazioni

- NexusLinguarum (COST Action, CA18209, 2019-2023)
Sito web: <https://nexuslinguarum.eu/>
Ruolo: Membro dei Working Groups WG1 & WG2
- Progetto di Eccellenza: Le Digital Humanities applicate alle lingue e letterature straniere (MIUR, 01.2018-12.2022)
Sito web: <http://www.dlls.univr.it/?ent=progetto&id=5327>
Ruolo: Referente (Team Leader) del Progetto “Spazi e Piattaforme Digitali”, per il Dipartimento di Lingue e Letterature Straniere dell’Università di 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
Sito web: https://cordis.europa.eu/project/rcn/106026_en.html
Altri Partner: VU University Amsterdam (Netherlands); Universidad Del Pais Vasco (Spain); LexisNexis (Netherlands); ScraperWiki (United Kingdom); Synerscope (Netherlands)
Ruolo: Gestione del progetto per FBK (Personale FBK coinvolto: 13); Responsabile Work Package 6; Coordinamento di tutte le attività (gestione personale, ricerca, sviluppo) dell’unità di Data and Knowledge Management; Ricercatore di riferimento per le attività di ricerca e sviluppo legate al KnowledgeStore
- ePlanning (Progetto Di Ricerca Applicata, Finanziato dalla Provincia di Trento ai sensi della L.P. 13.12.1999, n. 6, art. 5, 2012-2014)
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali
Altri Partner: Edizioni Centro Studi Erickson S.p.a. (Italia)
Gestione del progetto per FBK (Personale FBK coinvolto: 6); Coordinamento di tutte le attività (gestione personale, ricerca, sviluppo) dell’unità di Data and Knowledge Management
- PESCaDO (EU FP7 Strep Project, Grant 248594, 01.2010-12.2012)
Personalized Environmental Service Configuration and Delivery Orchestration
Sito web: https://cordis.europa.eu/project/rcn/93834_en.html
Altri Partner: 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).
Ruolo: Gestione del progetto per FBK (Personale FBK coinvolto: 5); Responsabile Work Package 5; Coordinamento di tutte le attività (gestione personale, ricerca, sviluppo) dell'unità di Data and Knowledge Management; Ricercatore di riferimento per le attività di ricerca e sviluppo legate alle tecnologie semantiche (ontologie e ragionamento automatico)

- APOSDLE (EU FP6 IP Project, Grant 027023, 03.2006-02.2010)

Advanced process-oriented self-directed learning environment

Sito web: https://cordis.europa.eu/project/rcn/80574_en.html

Altri Partner: Joanneum Research (Austria); City University London (United Kingdom); ComNetMedia 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: Attività di coordinamento a livello di una singola attività di progetto; partecipazione alle attività di ricerca e sviluppo

2.6 Risorse

2.6.1 Strumenti

- MoKi: The modelling wiki (<http://moki.fbk.eu>): uno strumento collaborativo, ispirato a Wikipedia, per la creazione di complessi modelli aziendali (ontologie e processi di business)
- KnowledgeStore (<http://knowledgestore.fbk.eu>): uno strumento scalare e robusto, basato su tecnologie del Semantic Web, per memorizzare, gestire, recuperare, e interrogare semanticamente, contenuti sia strutturati che non strutturati
- RDF_{PRO} (<http://rdfpro.fbk.eu>): uno strumento Java (disponibile sia da riga di comando che come libreria) per processare contenuto RDF
- PIKES (<http://pikes.fbk.eu/>): uno strumento per estrarre Knowledge Graphs da testi in linguaggio naturale
- JPARK (<http://pikes.fbk.eu/jpark.html>): un modello probabilistico che sfrutta conoscenza ontologica di background per migliorare la coerenza e rivedere le annotazioni NLP riguardanti entità
- PSL4EA (<http://pikes.fbk.eu/psl4ea.html>): un approccio basato sulla Probabilistic Soft Logic per rivedere congiuntamente, sfruttando, conoscenza ontologica di background, le annotazioni NLP riguardanti entità
- KE4IR (<http://pikes.fbk.eu/ke4ir.html>): un approccio per migliorare le performance del task di document retrieval in cui il contenuto testuale è combinato con il contenuto semantico ricavato dall'analisi del testo (dei documenti e delle richieste) e dall'arricchimento con dati strutturati Linked Data (ottenuto grazie a PIKES)
- T_EX-OWL (<https://github.com/dkmfbk/TexOwl>): una nuova sintassi per scrivere ontologie OWL
- Explicit Lyrics Detectors (<https://github.com/rospoche/explicit-lyrics-detection/>): una suite di classificatori (Logistic Regression, FastText, 1D-CNN, BERT, ecc.) per determinare se il testo di una canzone contiene contenuti inappropriati per i bambini. Oltre al codice Python per il training e la valutazione dei classificatori, sono messi a disposizione anche i modelli pre-allenati e di immediato utilizzo, sia per la lingua inglese che per la lingua italiana.

2.6.2 Ontologie

- The BPMN Ontology (<http://marcorospoher.com/backup-resources/bpmn/>): una formalizzazione in OWL-DL degli elementi grafici (e le regole per combinarli in un diagramma valido) della Business Process Modelling Notation (BPMN), basato sulla specifica OMG di BPMN versione 1.1 - [Gennaio 2008]
- The PESCaDO Ontology (<https://marcorospoher.com/backup-resources/pescado/>): un'ontologia OWL modulare in grado di rappresentare tutto il contenuto processato e prodotto da un sistema di supporto alla decisione per utenti basato su dati ambientali
- The Event and Situation Ontology (ESO) (<https://github.com/newsreader/eso>): una risorsa che formalizza le pre e post condizioni di eventi, e il loro effetto sulle entità che partecipano all'evento
- PreMOn - Predicate Model for Ontologies (<https://premon.fbk.eu/>): a una risorsa linguistica Linked Data per esporre, secondo le best practices del Semantic Web, le risorse legate ai predicati quali PropBank, NomBank, VerbNet and FrameNet

2.6.3 Modelli del Linguaggio

- SurgicBERTa (<https://huggingface.co/marcobombieri/surgicberta>) è un modello linguistico pre-addestrato specifico per la lingua chirurgica inglese, ovvero la lingua inglese utilizzata nel dominio chirurgico. SurgicBERTa è stato ottenuto da RoBERTa attraverso un continuo pre-training via Masked-Language-Modeling su 300k frasi tratte da libri e documenti chirurgici inglesi, per un totale di 7 milioni di parole. Per quanto ci risulta, SurgicBERTa è il primo modello linguistico pre-addestrato reso disponibile per il dominio chirurgico.

2.6.4 Risorse Linguistiche

- Robotic Surgery Propositional Bank (RSPB) dataset (<https://gitlab.com/altairLab/robotic-surgery-propositional-bank>). Il Robotic Surgery Propositional Bank è una risorsa linguistica, estensione di PropBank, che raccoglie lemmi, roleset (cioè sensi) e ruoli specifici usati nelle proposizioni del dominio della chirurgia robotica.

2.6.5 Dataset

- VTREL (<https://doi.org/10.6084/m9.figshare.7882781.v6>): VTREL, derivato dal dataset Flickr30k-Entities, è costituito da documenti composti da un'immagine e le corrispondenti didascalie. Le menzioni visuali e testuali di ciascuna immagine e didascalia sono annotate e allineate a entità tipate secondo con le classi di YAGO.
- Annotated dataset to assess the accuracy of the textual description of cultural heritage records (<https://doi.org/10.6084/m9.figshare.13359104.v1>): Il dataset contiene più di 100.000 descrizioni testuali di oggetti culturali in Cultura Italia, l'aggregatore culturale nazionale italiano. Ciascuna delle descrizioni è etichettata di qualità ALTA o BASSA, in base alla sua aderenza alle linee guida di catalogazione fornite dall'Istituto Centrale per il Catalogo e la Documentazione (ICCD).
- Surgical Procedural Knowledge Sentences (SPKS) dataset (<https://gitlab.com/altairLab/spks-dataset>): SPKS è un dataset testuale per il campo della robotica chirurgica composto da 1958 frasi (37022 parole e 3999 parole uniche) annotate manualmente come procedurali e non procedurali da un annotatore esperto.
- Explicit lyrics datasets (<https://github.com/rospoher/explicit-lyrics-detection/>): Due dataset annotati, uno per la lingua inglese (807K canzoni) e uno per la lingua italiana (37K canzoni),

costruiti partendo dai contenuti presenti in Spotify e LyricWiki, per addestrare e valutare strumenti automatici per l'identificazione di canzoni i cui testi contengono contenuti inappropriati per i bambini.

2.7 Servizi Professionali

2.7.1 Partecipazione a comitati editoriali di riviste

- Membro dell'Editorial Board della rivista internazionale Information Processing & Management (Elsevier Journal).
<https://www.journals.elsevier.com/information-processing-and-management/editorial-board>
- Guest Co-editor della Special Issue "Knowledge and Language Processing" sulla rivista Information Processing & Management (Elsevier Journal). Gli articoli selezionati (DOI: 10.1016/j.ipm.2019.102133, 10.1016/j.ipm.2019.102148, 10.1016/j.ipm.2019.102173, 10.1016/j.ipm.2020.102217) sono apparsi sul Volume 57, Issue 6, November 2020 della rivista (<https://www.sciencedirect.com/journal/information-processing-and-management/vol/57/issue/6>).
- Guest Co-editor della Special Issue "Applied Cognitive Computing: Challenges, Approaches, and Real-World Experiences" sulla rivista Progress In Artificial Intelligence (Springer Journal). Gli articoli selezionati (DOI: 10.1007/s13748-018-0160-x, 10.1007/s13748-018-0162-8, 10.1007/s13748-018-0163-7, 10.1007/s13748-018-0164-6) sono apparsi sul Volume 7, issue 4, December 2018 della rivista (<https://link.springer.com/journal/13748/volumes-and-issues/7-4>).

2.7.2 Attività di reviewing per riviste

- ACM Transactions on Intelligent Systems and Technology (ACM TIST)
- Applied Ontology (AO)
- Artificial Intelligence (AIJ)
- 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)
- PeerJ Computer Science
- Semantic Web Journal (SWJ)
- Umanistica Digitale (UD)

2.7.3 Organizzazione di Conferenze / Workshop

- Co-chair della special track on Knowledge and Natural Language Processing (KNLP) del 38th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2023) [27-31 Marzo 2023, Tallinn, Estonia]
<http://klp.fbk.eu>
- Co-chair della special track on Knowledge and Natural Language Processing (KNLP) del 37th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2022) [25-29 Aprile 2022, Brno, Repubblica Ceca]
<https://doi.org/10.1145/3535434>
- Co-chair della special track su Knowledge and Language Processing (KLP) del 36th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2021) [22-26 Marzo 2021, Gwangju, South Korea]
<https://doi.org/10.1145/3462420>
- Co-chair della special track su Knowledge and Language Processing (KLP) del 35th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2020) [30 Marzo-3 Aprile 2020, Brno, Repubblica Ceca]
<http://doi.org/10.1145/3389659>
- Co-chair della special track su Knowledge and Language Processing (KLP) del 34th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2019) [8-12 Aprile 2019, Limassol, Cyprus]
<https://doi.org/10.1145/3329375>
- Co-chair del Doctoral Consortium della 17th International Conference of the Italian Association for Artificial Intelligence (AI*IA 2018) [20-23 Novembre 2018, Trento, Italia]
<http://ceur-ws.org/Vol-2249/>
- Co-chair della special track su Cognitive Computing (CoCo) del 33rd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2018) [9-13 Aprile 2018, Pau, France]
<https://doi.org/10.1145/3258634>
- Co-chair della special track su Cognitive Computing (CoCo) del 32nd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2017) [27-31 Marzo 2017, Marrakech, Morocco]
<https://doi.org/10.1145/3243944>
- Co-chair del 4th International Workshop on Detection, Representation, and Exploitation of Events in the Semantic Web (DeRiVE 2015), co-locato con ESWC2015 [31 Maggio 2015, Portoroz, Slovenia]
<http://ceur-ws.org/Vol-1363/>
- Co-Chair della Posters and Demos track della 13th International Semantic Web Conference (ISWC2014) [19-23 Ottobre 2014, Riva del Garda, Italia]
<http://ceur-ws.org/Vol-1272/>

2.7.4 Partecipazione a Comitati di Programma di Conferenze / Workshop

- International Joint Conference on Artificial Intelligence (IJCAI): 2018, 2019, 2020
- AAAI Conference on Artificial Intelligence (AAAI): 2018, 2019, 2020, 2021, 2023
- 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, 2023
- 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 (AIM-SA): 2012
- International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS): 2012
- Workshop on Context, Information And Ontologies (CIAO): 2010

2.8 Consulenze/collaborazioni scientifiche in qualità di esperto

- Consulenza scientifica su "Intelligenza Artificiale nelle Digital Humanities" per la Compagnia di San Paolo
- Revisore per proposte di progetto per la Netherlands Organisation for Scientific Research (NWO)

2.9 Partecipazioni al Collegio di Scuole/Corsi di Dottorato

- Collegio dei Docenti del Dottorato in Letterature Straniere, Lingue e Linguistica (Università degli Studi di Verona, dal 15 Marzo 2019 al 30 Settembre 2021)
- Collegio dei Docenti del Dottorato in Lingue e Letterature Straniere (Università degli Studi di Verona, dal 1 Ottobre 2021)

2.10 Partecipazioni a Commissioni di Dottorato

- Matteo Lorenzini - Titolo Tesi: *Metadata Quality Evaluation in Cultural Heritage Domain* (ICT School, Università degli Studi di Trento, 2022)
- Yaroslav Nechaev - Titolo Tesi: *Linking Knowledge Bases to Social Media Profiles* (ICT School, Università degli Studi di Trento, 2019)

3 Attività Istituzionali

- Referente del Corso di Studio della Laurea in Lingue e letterature per l'editoria e i media digitali (Ottobre 2021 - Settembre 2022)

4 Attività Didattiche

4.1 Relatore di tesi di Dottorato

- Co-advisor di Marco Bombieri - Argomento della Tesi: *Machine understanding robotic-surgery actions from the textual description of surgical intervention procedures* (University of Verona, 2019 - present)
- Co-promotor di Roxane Segers (Promotor: prof. dr. Piek Vossen)- Argomento: *Formalizing Events for Detecting Implicit Event Information in Natural Language Text* (Vrije Universiteit, Amsterdam, 2018 - present)
- Co-tutor di Antonio Arnieri - Titolo della Tesi: *Sound and Identity in Shakespeare's Theatre* (University of Verona, 2018 - 2022)
- Co-relatore di Matteo Lorenzini - Titolo della Tesi: *Metadata Quality Evaluation in Cultural Heritage Domain* (ICT School, Università di Trento, 2017 - 2022) [Ora sta lavorando a: ETH Zurich]
- Relatore di Giulio Petrucci - Titolo della Tesi: *Learning to Learn Concept Descriptions* (ICT School, Università di Trento, 2013 - 2018) [Ora sta lavorando a: Google Zurich]
- Co-relatore di Francesco Corcoglioniti - Titolo della Tesi: *Frame-based Ontology Population from Text: Models, Systems and Applications* (ICT School, Università di Trento, 2012 - 2016) [Ora sta lavorando a: FBK]

4.2 Relatore / Co-relatore di tesi di Master / Laurea Magistrale / Laurea

- Laurea Magistrale in Informatica, Università di Trento: Rakebul Hasan (2009), Nahid E Mahbub (2009), Md. Kamrul Hasan (2009), Musawar Saeed (2009), Matteo Matassoni (2014)
- LCT European Masters Program, Università di Trento: Yiqing Liang (2017)
- Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università di 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)
- Laurea in Informatica, Università di Trento: Marco Spanò (2018)
- Laurea in Lingue e Culture per l'Editoria, Università di 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)

- Laurea in Lingue e Letterature per l'Editoria e i Media Digitali, Università di Verona: Rebecca Guolo (2022), Amedeo Onnis (2022)
- Laurea in Lingue e Culture per il Turismo e il Commercio Internazionale, Università di Verona: Francesca Laganà (2020), Lukasz Kolasowski (2020), Sara Turrini (2021)

4.3 Tutoraggio / Co-tutoraggio per Stage / Borse di studio

- Borse di studio post-laurea: Gianluca Maguolo (2018)
- LCT European Masters Program, Università di Trento: Yiqing Liang (2017),
- Laurea Magistrale in Informatica, Università di Trento: Nahid E Mahbub (2008), Md. Kamrul Hasan (2009)
- Laurea in Informatica, Università di Trento: Gianluca Apriceno (2015), Enrico Magnago (2015), Alessio Scussel (2016)
- Laurea in Lingue e Culture per l'Editoria e i Media Digitali, Università di Verona: Jasmine Touarsa (2021), Marta Cafà (2021)

4.4 Insegnamenti

- Anno Accademico: 2022- 2023
 - *Introduzione all'informatica umanistica* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
 - *Linguaggi di programmazione per l'ambito umanistico* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
 - *Sistemi informativi e basi di dati per l'ambito umanistico* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
 - *Electronic commerce* [S.S.D. INF/01] - Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università di Verona, Italia
 - *Python programming language* - Scuola di Dottorato, Università di Verona, Italia
- Anno Accademico: 2021 - 2022
 - *Introduzione all'informatica umanistica* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
 - *Linguaggi di programmazione per l'ambito umanistico* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
 - *Sistemi informativi e basi di dati per l'ambito umanistico* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
 - *Crash course on Python programming for the Humanities* - Dottorato in Lingue e Letterature Straniere + Dottorato in Linguistica, Università di Verona, Italia
- Anno Accademico: 2020 - 2021
 - *Informatica per gli studi umanistici* [S.S.D. INF/01] - Laurea in Lingue e culture per l'editoria, Università di Verona, Italia

- *Introduzione all'informatica umanistica* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
- *Linguaggi di programmazione per l'ambito umanistico* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
- *Natural Language Processing for analyzing written textual resources* - Dottorato in Letterature Straniere, Lingue e Linguistica, Università di Verona, Italia
- *Semantic Web and Linked Data technologies for the humanities* - Dottorato in Letterature Straniere, Lingue e Linguistica, Università di Verona, Italia
- *Working with Textual Files: Encodings and Regular Expressions* - Dottorato in Letterature Straniere, Lingue e Linguistica, Università di Verona, Italia

• Anno Accademico: 2019 - 2020

- *Electronic commerce* [S.S.D. INF/01] - Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università di Verona, Italia
- *Informatica per gli studi umanistici* [S.S.D. INF/01] - Laurea in Lingue e culture per l'editoria, Università di Verona, Italia
- *Introduzione all'informatica umanistica* [S.S.D. INF/01] - Laurea in Lingue e letterature per l'editoria e i media digitali, Università di Verona, Italia
- *A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research* - Dottorato in Letterature Straniere, Lingue e Linguistica, Università di Verona, Italia
- *The eXtensible Markup Language (XML) and the Textual Encoding Initiative (TEI): standards for text representation in the humanities* - (con Dr. Anna Cappellotto) Dottorato in Letterature Straniere, Lingue e Linguistica, Università di Verona, Italia

• Anno Accademico: 2018 - 2019

- *Electronic commerce (A-L)* [S.S.D. INF/01] - Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università di Verona, Italia
- *Electronic commerce (M-Z)* [S.S.D. INF/01] - Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università di Verona, Italia
- *A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research* - Dottorato in Letterature Straniere, Lingue e Linguistica, Università di Verona, Italia

• Anno Accademico: 2012 - 2013

- *Language Resources and Ontologies* (co-titolare al 50% con Dr. Sara Tonelli) [S.S.D. INF/01] - Laurea Magistrale in Filosofia e linguaggi della modernità, Università di Trento, Italia

• Inoltre, ho tenuto lezioni per i seguenti corsi / scuole:

- First Interdisciplinary Summer School on Ontological Analysis, IAOA, Trento (2012)
- Corso *Language Resources and Ontologies*, Master in Human Language Technology and Interface, Università di Trento (2010-2011, 2011-2012)
- International Winter Camp on Language and Data/Knowledge, TrentoRise (2012)

- Corso *Computational Linguistics*, Laurea Magistrale in Scienze Cognitive, Università di Trento (2012)
- Corso *Business Process Re-engineering*, Laurea Magistrale in Net Economics, Università di Trento (2010, 2011)
- Corso *Computational Complexity*, Laurea Magistrale in Informatica, Università di Trento (2004, 2005)

5 Pubblicazioni

5.1 Indicatori Bibliometrici

Google Scholar

- Citazioni: 1849
- H-index: 25
- i10-Index: 48

Scopus

- Citazioni: 993
- H-index (incluse auto-citazioni): 17
- H-index (escluse auto-citazioni): 16

5.2 Articoli su Rivista

26. **Marco Rospoher**. Detecting explicit lyrics: a case study in Italian music. *Language Resources and Evaluation* (To appear)
DOI: 10.1007/s10579-022-09595-3
25. Marco Bombieri, **Marco Rospoher**, Simone Paolo Ponzetto, and Paolo Fiorini. Machine understanding surgical actions from intervention procedure textbooks. *Computers in Biology and Medicine*:106415. ISSN: 0010-4825 (To appear)
DOI: <https://doi.org/10.1016/j.compbiomed.2022.106415>
URL: <https://www.sciencedirect.com/science/article/pii/S0010482522011234>
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 Rospo**cher, 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 Rospo**cher. 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 Rospo**cher, 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: 10.1093/11c/fqab036
URL: https://academic.oup.com/dsh/article-pdf/36/Supplement_2/ii182/41091126/fqab036.pdf
 18. **Marco Rospo**cher 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 Rospo**cher, 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 Rospo**cher, 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 Rospo**cher, Francesco Corcoglioniti, and Alessio Palmero Aprosio. PreMON: LODifying 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 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_L.2015_fin.pdf
9. Francesco Corcoglioniti, **Marco Rospo-cher**, Roldano Cattoni, Bernardo Magnini, and Lucia-
no 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 Ko-
skentalo, Simon Mille, Jürgen Moßgraber, Anastasia Moutzidou, Maria Myllynen, Emanuele
Pianta, **Marco Rospo-cher**, Luciano Serafini, Virpi Tarvainen, Sara Tonelli, and Stefanos Vro-
chidis. 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 Collabo-
rative Features in Ontology Authoring. *IEEE Transactions on Knowledge and Data Engineering*,

vol. 26(12):2997–3011. IEEE. ISSN: 1041-4347 (2014)

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