

Curriculum Vitae

Marco Rospoche

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1 General Information

1.1 Personal Data

FAMILY NAME: Rospoche

FIRST NAME: Marco

NATIONALITY: Italian

AFFILIATION: Department of Foreign Languages and Literatures, University of Verona

BUILDING: Palazzo di Lingue, Floor 1, Room 1.12

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

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

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

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

ORCID: <https://orcid.org/0000-0001-9391-3201>

GITHUB: <https://github.com/rospoche>

1.2 Education

- Ph.D. in Information and Communication Technologies
ICT School, University of Trento, Italy
Mar 31, 2006
Thesis: On the computational complexity of enumerating certificates of NP problems
Advisor: Prof. Romeo Rizzi
Manuscript: <https://marcorospoche.com/files/phd/2006phd.pdf>
- M.Sc. (Laurea) degree in Mathematics
University of Trento, Italy
Mar 27, 2002
Thesis: 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)
Dec 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)
Dec 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: Dec 28, 2018

1.5 Past Work and Research Experiences

1.5.1 Past Work and Research Experiences

- Research Scientist at Fondazione Bruno Kessler (FBK), Trento, Italy
May 8, 2007 - Dec 27, 2018
- Software Developer at S.a.i.tec. Srl c/o Phoenix Informatica Bancaria SpA, Trento, Italy
Aug 1, 2006 - May 7, 2007

1.5.2 Research Grants

- Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento
Nov 1, 2005 - Mar 31, 2006
- Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento
May 1, 2002 - Dec 30, 2002

1.5.3 PhD Scholarship

- PhD Student (with Scholarship) at the ICT School of the University of Trento, Italy
Nov 1, 2002 - Oct 31, 2005

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 Publications

2.3.1 Bibliometrics Indicators

- Google Scholar
 - Citations: 1905
 - H-index: 25
 - i10-Index: 49
- Scopus
 - Citations: 1027
 - H-index: 17
 - H-index (excl. self-citation): 16

2.3.2 Journals

27. **Marco Rospocher.** Detecting explicit lyrics: a case study in Italian music. *Language Resources and Evaluation* (To appear)
DOI: 10.1007/s10579-022-09595-3

26. Marco Bombieri, **Marco Rospo**cher, Simone Paolo Ponzetto, and Paolo Fiorini. Machine understanding surgical actions from intervention procedure textbooks. *Computers in Biology and Medicine*, vol. 152:106415. ISSN: 0010-4825 (2023)
DOI: <https://doi.org/10.1016/j.combiomed.2022.106415>
URL: <https://www.sciencedirect.com/science/article/pii/S0010482522011234>
25. **Marco Rospo**cher and Samaneh Eksir. Assessing Fine-Grained Explicitness of Song Lyrics. *Information*, vol. 14(3). ISSN: 2078-2489 (2023)
DOI: 10.3390/info14030159
URL: <https://www.mdpi.com/2078-2489/14/3/159>
24. **Marco Rospo**cher. 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 Rospo**cher, 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 Rospo**cher, 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/llc/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 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)
9. Francesco Corcoglioniti, **Marco Rospoher**, 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 Rospoche**r, 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 Rospoche**r, 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 Rospoche**r. 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 Rospoche**r, 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 Rospoche**r, 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
 3. **Marco Rospoche**r, Sara Tonelli, Luciano Serafini, and Emanuele Pianta. Corpus-based Terminological Evaluation of Ontologies. *Applied Ontology*, vol. 7(4):429–448. IOS Press. ISSN: 1570-5838; 1875-8533 (2012)
 DOI: 10.3233/AO-2012-0114
 URL: <https://content.iospress.com/articles/applied-ontology/ao114>
 2. Chiara Di Francescomarino, Chiara Ghidini, **Marco Rospoche**r, Luciano Serafini, and Paolo Tonella. A framework for the collaborative specification of semantically annotated business processes. *Journal of Software Maintenance and Evolution: Research and Practice*, vol. 23(4):261–295. John Wiley & Sons Ltd. ISSN: 1532-0618 (2011)

DOI: 10.1002/smr.525

URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/smr.525>

1. Romeo Rizzi and **Marco Rospoher**. Covering partially directed graphs with directed paths. *Discrete Mathematics*, vol. 306(13):1390–1404. Elsevier B.V.. ISSN: 0012-365X (2006)
DOI: 10.1016/j.disc.2006.01.024
URL: <https://www.sciencedirect.com/science/article/pii/S0012365X06001968>

2.3.3 Book Chapters

5. Paolo Frassi and **Marco Rospoher**. Ontologie, locuzioni deboli e legami fra entità terminologiche nell’ambito del progetto DIACOM-fr. In *Risorse e strumenti per l’elaborazione e la diffusione della terminologia in Italia*, pages 138–151. Eurac Research (2022)
DOI: 10.57749/wtfr-y339
4. Francesco Corcoglioniti, **Marco Rospoher**, Roldano Cattoni, Bernardo Magnini, and Luciano Serafini. Managing Large Volumes of Interlinked Text and Knowledge With the Knowledge-Store. In Miltiadis D. Lytras, Naif R Aljohani, Ernesto Damiani, and Kwok Tai Chui (editors), *Innovations, Developments, and Applications of Semantic Web and Information Systems*, chapter 2, pages 32–61. IGI Global. ISBN: 9781522550426; 1522550429; 9781522550433 (2018)
DOI: 10.4018/978-1-5225-5042-6.ch002
URL: <https://www.igi-global.com/gateway/chapter/196434>
3. Alessio Palmero Aprosio, Francesco Corcoglioniti, Mauro Dragoni, and **Marco Rospoher**. Supervised Opinion Frames Detection with RAID. In Fabien Gandon, Elena Cabrio, Milan Stankovic, and Antoine Zimmermann (editors), *Semantic Web Evaluation Challenges*, pages 251–263. Springer International Publishing. ISBN: 978-3-319-25517-0 (2015)
DOI: 10.1007/978-3-319-25518-7_22
URL: https://link.springer.com/chapter/10.1007/978-3-319-25518-7_22
2. Michael Erdmann, Daniel Hansch, Viktoria Pammer, **Marco Rospoher**, Chiara Ghidini, Stefanie Lindstaedt, and Luciano Serafini. Applications of Semantic Wikis. In Paul Warren, John Davies, and Elena Simperl (editors), *Context and Semantics for Knowledge Management: Technologies for Personal Productivity*, chapter 12, pages 229–254. Springer-Verlag. ISBN: 978-3-642-19509-9; 978-3-642-19510-5 (2011)
DOI: 10.1007/978-3-642-19510-5_12
URL: https://link.springer.com/content/pdf/10.1007/978-3-642-19510-5_12
1. Claudio Eccher, Antonella Ferro, Andreas Seyfang, **Marco Rospoher**, and Silvia Miksch. Modeling Clinical Protocols Using Semantic MediaWiki: The Case of the Oncocure Project. In David Riaño (editors), *Knowledge Management for Health Care Procedures: ECAI 2008 Workshop, K4HelP 2008, Patras, Greece, July 21, 2008, Revised Selected Papers*, pages 42–54. Springer. ISBN: 978-3-642-03261-5 (2008)
DOI: 10.1007/978-3-642-03262-2_4
URL: https://link.springer.com/chapter/10.1007/978-3-642-03262-2_4

2.3.4 Conferences

52. Marco Bombieri, **Marco Rospoher**, Simone Paolo Ponzetto, and Paolo Fiorini. The Robotic Surgery Procedural Framebank. In *Proceedings of the Language Resources and Evaluation*

- Conference*, pages 3950–3959. European Language Resources Association (2022)
URL: <https://aclanthology.org/2022.lrec-1.420>
51. Shahi Dost, Luciano Serafini, **Marco Rospo**cher, Lamberto Ballan, and Alessandro Sperduti. VTREL: A resource for Visual-Textual-Knowledge Entity Linking. In *Proceedings of the 35th Annual ACM Symposium on Applied Computing*, pages 2021–2028 (2020)
DOI: 10.1145/3341105.3373958
URL: <https://dl.acm.org/doi/abs/10.1145/3341105.3373958>
 50. Shahi Dost, Luciano Serafini, **Marco Rospo**cher, Lamberto Ballan, and Alessandro Sperduti. Jointly Linking Visual and Textual Entity Mentions with Background Knowledge. In Elisabeth Métais, Farid Meziane, Helmut Horacek, and Philipp Cimiano (editors), *Natural Language Processing and Information Systems - 25th International Conference on Applications of Natural Language to Information Systems, NLDB 2020, Saarbrücken, Germany, June 24-26, 2020, Proceedings*, vol. 12089 of *Lecture Notes in Computer Science*, pages 264–276. Springer (2020)
DOI: 10.1007/978-3-030-51310-8_24
URL: https://link.springer.com/chapter/10.1007%2F978-3-030-51310-8_24
 49. Shahi Dost, Luciano Serafini, **Marco Rospo**cher, Lamberto Ballan, and Alessandro Sperduti. On Visual-Textual-Knowledge Entity Linking. In *14th IEEE International Conference on Semantic Computing (IEEE-ICSC)*, pages 190–193 (2020)
DOI: 10.1109/ICSC.2020.00039
 48. Shahi Dost, Luciano Serafini, **Marco Rospo**cher, Lamberto Ballan, and Alessandro Sperduti. VT-LINKER: Visual-Textual-Knowledge Entity Linker. In *ECAI 2020: 24th European Conference on Artificial Intelligence*, vol. 325 of *Frontiers in Artificial Intelligence and Applications*, pages 2897–2898. IOS Press (2020)
DOI: 10.3233/FAIA200442
URL: <https://ebooks.iospress.nl/volumearticle/55237>
 47. Matteo Lorenzini, **Marco Rospo**cher, and Sara Tonelli. Computer-Assisted Curation of Digital Cultural Heritage Resources. In *Digital Humanities 2019 (DH2019)* (2019)
 46. **Marco Rospo**cher. An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations. In Denny Vrandečić, Kalina Bontcheva, Mari Carmen Suárez-Figueroa, Valentina Presutti, Irene Celino, Marta Sabou, Lucie-Aimée Kaffee, and Elena Simperl (editors), *The Semantic Web - ISWC 2018 - 17th International Semantic Web Conference, Monterey, CA, USA, October 8-12, 2018, Proceedings, Part I*, vol. 11136 of *Lecture Notes in Computer Science*, pages 144–161. Springer (2018)
DOI: 10.1007/978-3-030-00671-6_9
URL: https://link.springer.com/chapter/10.1007%2F978-3-030-00671-6_9
 45. Mauro Dragoni, **Marco Rospo**cher, Tania Bailoni, Rosa Maimone, and Claudio Eccher. Semantic Technologies for Healthy Lifestyle Monitoring. In Denny Vrandečić, Kalina Bontcheva, Mari Carmen Suárez-Figueroa, Valentina Presutti, Irene Celino, Marta Sabou, Lucie-Aimée Kaffee, and Elena Simperl (editors), *The Semantic Web - ISWC 2018 - 17th International Semantic Web Conference, Monterey, CA, USA, October 8-12, 2018, Proceedings, Part II*, vol. 11137 of *Lecture Notes in Computer Science*, pages 307–324. Springer (2018)
DOI: 10.1007/978-3-030-00668-6_19
URL: https://link.springer.com/chapter/10.1007%2F978-3-030-00668-6_19

44. **Marco Rospo**cher and Francesco Corcoglioniti. Joint Posterior Revision of NLP Annotations via Ontological Knowledge. In *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence, IJCAI-18*, pages 4316–4322. International Joint Conferences on Artificial Intelligence Organization. ISBN: 978-0-9992411-2-7 (2018)
DOI: 10.24963/ijcai.2018/600
URL: <https://www.ijcai.org/proceedings/2018/600>
43. Stefano Borgo, Loris Bozzato, Alessio Palmero Aprosio, **Marco Rospo**cher, and Luciano Serafini. Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning. In *Proceedings of the Symposium on Applied Computing of SAC '17*, pages 353–355. ACM. ISBN: 978-1-4503-4486-9 (2017)
DOI: 10.1145/3019612.3019916
URL: <https://dl.acm.org/citation.cfm?id=3019916>
42. Francesco Corcoglioniti, **Marco Rospo**cher, and Alessio Palmero Aprosio. A 2-phase Frame-based Knowledge Extraction Framework. In *Proceedings of the 31st Annual ACM Symposium on Applied Computing, Pisa, Italy, April 4-8, 2016*, pages 354–361. ACM. ISBN: 978-1-4503-3739-7 (2016)
DOI: 10.1145/2851613.2851845
URL: <https://dl.acm.org/citation.cfm?id=2851845>
41. Roxane Segers, **Marco Rospo**cher, Piek Vossen, Egoitz Laparra, German Rigau, and Anne-Lyse Minard. The Event and Implied Situation Ontology (ESO): Application and Evaluation. In Nicoletta Calzolari, Khalid Choukri, Thierry Declerck, Marko Grobelnik, Bente Maegaard, Joseph Mariani, Asuncion Moreno, Jan Odijk, and Stelios Piperidis (editors), *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*, pages 1463–1470. European Language Resources Association (ELRA). ISBN: 978-2-9517408-9-1 (2016)
URL: http://www.lrec-conf.org/proceedings/lrec2016/pdf/722_Paper.pdf
40. Francesco Corcoglioniti, **Marco Rospo**cher, Alessio Palmero Aprosio, and Sara Tonelli. Pre-MOn: a Lemon Extension for Exposing Predicate Models as Linked Data. In Nicoletta Calzolari, Khalid Choukri, Thierry Declerck, Marko Grobelnik, Bente Maegaard, Joseph Mariani, Asuncion Moreno, Jan Odijk, and Stelios Piperidis (editors), *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*, pages 877–884. European Language Resources Association (ELRA). ISBN: 978-2-9517408-9-1 (2016)
URL: http://www.lrec-conf.org/proceedings/lrec2016/pdf/854_Paper.pdf
39. Roxane Segers, Egoitz Laparra, **Marco Rospo**cher, Piek Vossen, German Rigau, and Filip Ilievski. The Predicate Matrix and the Event and Implied Situation Ontology: Making More of Events. In *Proceedings of the Eighth Global WordNet Conference (Bucharest, Romania, January 27-30, 2016)*, pages 360–368. ISBN: 978-973-0-20728-6 (2016)
URL: <http://gwc2016.racai.ro/proceedings.html>
38. Francesco Corcoglioniti, Mauro Dragoni, **Marco Rospo**cher, and Alessio Palmero Aprosio. Knowledge Extraction for Information Retrieval. In Harald Sack, Eva Blomqvist, Mathieu d’Aquino, Chiara Ghidini, Simone Paolo Ponzetto, and Christoph Lange (editors), *The Semantic Web. Latest Advances and New Domains - 13th International Conference, ESWC 2016, Heraklion, Crete, Greece, May 29 - June 2, 2016, Proceedings*, vol. 9678 of *Lecture Notes in Computer Science*, pages 317–333. Springer. ISBN: 978-3-319-34128-6, 978-3-319-34129-3 (2016)
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2.3.6 Edited Works

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DOI: 10.1145/3535434
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9. Mauro Dragoni and **Marco Rospoche**r. Special Track on Knowledge and Language Processing (Editorial). *Proceedings of the 36th Annual ACM Symposium on Applied Computing (SAC 2021), Virtual, Online, 22 March 2021 - 26 March 2021*. ACM (2021)
DOI: 10.1145/3462420
8. Mauro Dragoni and **Marco Rospoche**r. Special Track on Knowledge and Language Processing (Editorial). *Proceedings of the 35th Annual ACM Symposium on Applied Computing (SAC 2020), Brno, Czech Republic, March 30-April 3, 2020*. ACM (2020)
DOI: 10.1145/3389659
7. Mauro Dragoni and **Marco Rospoche**r. Special Track on Knowledge and Language Processing (Editorial). *Proceedings of the 34th Annual ACM Symposium on Applied Computing (SAC 2019), Limassol, Cyprus, 8-12 April 2019*. ACM. ISBN: 978-1-4503-5933-7 (2019)
DOI: 10.1145/3329375
URL: <https://dl.acm.org/citation.cfm?id=3329375>
6. Mauro Dragoni and **Marco Rospoche**r. Applied cognitive computing: challenges, approaches, and real-world experiences. *Progress in Artificial Intelligence* Vol. 7. ISSN: 2192-6360 (2018)
DOI: 10.1007/s13748-018-0166-4
URL: <https://link.springer.com/article/10.1007/s13748-018-0166-4>
5. Mauro Dragoni and **Marco Rospoche**r. Special Track on Cognitive Computing (Editorial). *Proceedings of the 33rd Annual ACM Symposium on Applied Computing (SAC 2018), Pau, France, 9-13 April 2018*. ACM. ISBN: 978-145035191-1 (2018)
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4. **Marco Rospo**cher, Luciano Serafini, and Sara Tonelli. Proceedings of the AI*IA 2018 Doctoral Consortium. Vol. 2249 of *AI*IA Proceedings*. CEUR-WS.org. ISSN: 1613-0073 (2018)
URL: <http://ceur-ws.org/Vol-2249/>
3. Mauro Dragoni and **Marco Rospo**cher. Special Track on Cognitive Computing (Editorial). *Proceedings of the 32nd Annual ACM Symposium on Applied Computing (SAC 2017), Marrakesh, Morocco, 4-6 April 2017*. ACM. ISBN: 978-145034486-9 (2017)
DOI: 10.1145/3243944
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2. Marieke van Erp, Raphaël Troncy, **Marco Rospo**cher, Willem Robert van Hage, and David A. Shamma. Proceedings of the 4th International Workshop on Detection, Representation, and Exploitation of Events in the Semantic Web (DeRiVE 2015). Vol. 1363 of *CEUR Proceedings*. CEUR-WS.org. ISSN: 1613-0073 (2015)
URL: <http://ceur-ws.org/Vol-1363/>
1. Matthew Horridge, **Marco Rospo**cher, and Jacco van Ossenbruggen. Proceedings of the ISWC 2014 Posters & Demonstrations Track. Vol. 1272 of *CEUR Proceedings*. CEUR-WS.org. ISSN: 1613-0073 (2014)
URL: <http://ceur-ws.org/Vol-1272/>

2.4 Presentations

2.4.1 Invited Talks / Seminars

- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge
NLP seminar series at Dublin City University / ADAPT Centre - Dublin, Ireland
Feb 13, 2023
Slides: https://marcorospoher.com/files/slides/2023adapt_slides.pdf
- Knowledge representation and reasoning with ontologies
Commonsense Reasoning in Surgical Robotics (COSUR) summer school - Verona, Italy
May 3, 2022
Slides: https://marcorospoher.com/files/slides/2022cosur_slides.pdf
- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge
Montreal Natural Language Processing Consortium (MTL-NLP) - Montreal, Canada
Jan 22, 2021
Slides: https://marcorospoher.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 - Verona, Italy
Dec 4, 2019
Slides: https://marcorospoher.com/files/slides/2019DIuniVR_slides.pdf
- Improving NLP Entity Annotations via Ontological Knowledge
SCC Seminar Series (FBK) - Trento, Italy
Nov 15, 2018
Slides: https://marcorospoher.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 - Monterey, California, US

Oct 4, 2018

Slides: https://marcorospoche.com/files/slides/2018semdeep4_slides.pdf

- KnowledgeStore
NewsReader Workshop - Amsterdam Public Library, Amsterdam, Netherlands
Nov 21, 2015
Slides: https://marcorospoche.com/files/slides/2015nwr_slides.pdf
- An Ontological Framework for Decision Support
Ontology Summit Track C session on Decision Making in Different Domains - Virtual Meeting
Mar 19, 2015
Slides: https://marcorospoche.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 -
Riva del Garda, Italy
Mar 18, 2015
Slides: https://marcorospoche.com/files/slides/2015dati_slides.pdf
- KnowledgeStore
Workshop on Deep and Large-Scale Semantic Processing: The Way Ahead - Trento, Italy
Mar 10, 2015
Slides: https://marcorospoche.com/files/slides/2015jpn_slides.pdf
- Semantic Management in PESCaDO
PESCaDO Final Event - UPF, Barcelona, Spain
Feb 14, 2012
Slides: https://marcorospoche.com/files/slides/2012pescado_slides.pdf
- Collaborative modeling of processes and ontologies
BMIR Research Colloquium - Stanford University, Palo Alto, US
Sep 22, 2011
Slides: https://marcorospoche.com/files/slides/2011bmir_slides.pdf
- Collaborative modeling of processes and ontologies
DERI Open Day - Digital Enterprise Research Institute, Galway, Ireland
Apr 7, 2011
Slides: https://marcorospoche.com/files/slides/2011deri_slides.pdf
- MoKi and the ProDe project
ICT Days - University of Trento, Trento, Italy
Mar 16, 2011
Slides: https://marcorospoche.com/files/slides/2011ict_slides.pdf
- MoKi: the Modelling Wiki
ILIKS Annual Meeting - Trento, Italy
Dec 18, 2009
Slides: https://marcorospoche.com/files/slides/2009iliks_slides.pdf
- Organic Agriculture and MoKi
Organic.Edunet Ontology Workshop Meeting - FAO, Rome, Italy
Oct 6, 2009
- Modelling in APOSDLE
ACTIVE EU Project Meeting - STI, Innsbruck, Austria

Jan 27, 2009

Slides: https://marcorospoche.com/files/slides/2009active_slides.pdf

- On the Computational Complexity of Listing Certificates of NP problems
ITC Seminars - Istituto Trentino di Cultura, Trento, Italy
Oct 18, 2006
Slides: https://marcorospoche.com/files/slides/2006itc_slides.pdf

2.4.2 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
Dec 10, 2021
- Ontologie e locuzioni: modellizzazione di termini complessi nell'ambito del progetto DIACOM
XXX Convegno Associazione Italiana per la Terminologia - Bolzano, Italia
Oct 15, 2020 - Oct 16, 2020
- An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations
17th International Semantic Web Conference, ISWC 2018 - Monterey, CA, USA
Oct 8, 2018 - Oct 12, 2018
Slides: https://marcorospoche.com/files/slides/2018iswc_research_slides.pdf
Video: http://videlectures.net/iswc2018_rospoche_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 - Stockholm, Sweden
Jul 13, 2018 - Jul 19, 2018
Slides: https://marcorospoche.com/files/slides/2018ijcai_slides.pdf
- Knowledge Extraction for Information Retrieval
12th Extended Semantic Web Conference, ESWC 2016 - Heraklion, Crete, Greece
May 29, 2016 - Jun 2, 2016
Slides: https://marcorospoche.com/files/slides/2016eswc_slides.pdf
Video: http://videlectures.net/eswc2016_rospoche_information_retrieval/
- Processing Billions of RDF Triples on a Single Machine using Streaming and Sorting
30th Annual ACM Symposium on Applied Computing, ACM-SAC2015 - Salamanca, Spain
Apr 13, 2015 - Apr 17, 2015
Slides: https://marcorospoche.com/files/slides/2015sac_slides.pdf
- On the Collaborative Development of Application Ontologies: A Practical Case Study with a SME
19th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014 - Linköping, Sweden
Nov 24, 2014 - Nov 28, 2014
Slides: https://marcorospoche.com/files/slides/2014ksem_slides.pdf
- Investigating Collaboration Dynamics in Different Ontology Development Environments
7th International Conference on Knowledge Science, Engineering and Management, KSEM 2014 - Sibiu, Romania
Oct 16, 2014 - Oct 18, 2014
Slides: https://marcorospoche.com/files/slides/2014ksem_slides.pdf

- An ontology for the Business Process Modelling Notation
8th International Conference on Formal Ontologies and Information Systems, FOIS2014 - Rio de Janeiro, Brazil
Sep 22, 2014 - Sep 25, 2014
Slides: https://marcorospocher.com/files/slides/2014foisbpmn_slides.pdf
- An ontology for personalized environmental decision support
8th International Conference on Formal Ontologies and Information Systems, FOIS2014 - Rio de Janeiro, Brazil
Sep 22, 2014 - Sep 25, 2014
Slides: https://marcorospocher.com/files/slides/2014foisescado_slides.pdf
- Interlinking Unstructured and Structured Knowledge in an Integrated Framework
7th IEEE International Conference on Semantic Computing, ICSC2013 - Irvine, CA, USA
Sep 16, 2013 - Sep 18, 2013
Slides: https://marcorospocher.com/files/slides/2013icsc_slides.pdf
- An Ontological Framework for Decision Support
2nd Joint International Semantic Technology Conference, JIST2012 - Nara, Japan
Dec 2, 2012 - Dec 4, 2012
Slides: https://marcorospocher.com/files/slides/2012jist_slides.pdf
- Evaluating wiki-enhanced ontology authoring
18th International Conference on Knowledge Engineering and Knowledge Management, EKAW2012 - Galway, Ireland
Oct 8, 2012 - Oct 12, 2012
Slides: https://marcorospocher.com/files/slides/2012ekaw_slides.pdf
Video: <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 - Valencia, Spain
Jan 30, 2012 - Feb 4, 2012
Slides: https://marcorospocher.com/files/slides/2012eknow_slides.pdf
- Boosting collaborative ontology building with key-concept extraction
5th IEEE International Conference on Semantic Computing, ICSC2011 - Palo Alto, CA, USA
Sep 18, 2011 - Sep 21, 2011
Slides: https://marcorospocher.com/files/slides/2011icsc_slides.pdf
- Reasoning on Semantically Annotated Processes
6th International Conference on Service-Oriented Computing, ICSOC2008 - Sydney, Australia
Dec 1, 2008 - Dec 5, 2008
Slides: https://marcorospocher.com/files/slides/2008icsoc_slides.pdf
- Collaborative Knowledge Engineering via Semantic MediaWiki
International Conference on Semantic Systems, I-SEMANTICS08 - Graz University of Technology, Graz, Austria
Sep 3, 2008 - Sep 5, 2008
Slides: https://marcorospocher.com/files/slides/2008isemantics_slides.pdf

2.4.3 Workshop Talks

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

2.4.4 Demo and Poster Presentations

- Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning
32nd Annual ACM Symposium on Applied Computing, ACM-SAC2017 - Marrakesh, Morocco
Apr 3, 2017 - Apr 7, 2017
Poster: 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 - Bethlehem, USA
Oct 11, 2015 - Oct 15, 2015
Poster: https://marcorospocher.com/files/posters/2015iswcdemo2_poster.pdf
- Extracting Knowledge from Text with PIKES
ISWC 2015 Posters & Demonstrations Track - Bethlehem, USA
Oct 11, 2015 - Oct 15, 2015
Poster: 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 - Linköping, Sweden
Nov 24, 2014 - Nov 28, 2014
Poster: https://marcorospocher.com/files/posters/2014ekawdemo_poster.pdf
- Key-concept Extraction for Ontology Engineering
18th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2012 - Galway, Ireland
Oct 8, 2012 - Oct 12, 2012
Poster: https://marcorospocher.com/files/posters/2012ekawdemo_poster.pdf
- MoKi: a Wiki-Based Conceptual Modeling Tool
EKAW2010 Poster and Demo Track - Lisbona, Portugal
Oct 11, 2010 - Oct 15, 2010
Poster: https://marcorospocher.com/files/posters/2010ekawdemo_2_poster.pdf
- MoKi: The Enterprise Modelling Wiki
6th European Semantic Web Conference, ESWC 2009 - Heraklion, Crete, Greece
May 31, 2009 - Jun 4, 2009
Poster: https://marcorospocher.com/files/posters/2009eswcdemo_poster.pdf

- Collaborative Knowledge Engineering via Semantic MediaWiki
16th International Conference on Knowledge Engineering and Knowledge Management Knowledge Patterns, EKAW2008 - Aci Trezza, Italy
Sep 29, 2008 - Oct 3, 2008
Poster: https://marcorospocher.com/files/posters/2008ekaw_poster.pdf

2.5 Abroad Research Stays

- Visiting Scholar at the Musen Lab, Stanford Center for Biomedical Informatics Research, Stanford University
Sep 1, 2013 - Dec 31, 2013
Host: Dr. Tania Tudorache, Prof. Dr. Md. Mark Musen
Research Topic: Investigation of collaboration dynamics in different ontology development environments
- Visiting Research Associate at the School of Electrical Engineering and Computer Science, University of Newcastle, NSW, Australia
Jan 15, 2005 - Apr 15, 2005
Host: Prof. Pablo Moscato
Research Topic: Development of combinatorial optimization algorithms for computational biology

2.6 Research Projects

2.6.1 Acquisitions of Research Projects

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

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere
Jan 1, 2023 - Dec 31, 2027
For: Università degli Studi di Verona
Funding: 6,566,335 Euro
- NewsReader (EU FP7 Strep Project, Grant 316404)
Building structured event indexes of large volumes of financial and economic data for decision making
Jan 1, 2013 - Dec 31, 2015
For: Fondazione Bruno Kessler (FBK)
Funding: 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)
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali
Jan 1, 2012 - Dec 31, 2013
For: Fondazione Bruno Kessler (FBK)
Funding: 114,000 Euro
- Organic.Lingua (EU FP7 ICP Project, Grant 270999)
Demonstrating the potential of a multilingual Web portal for Sustainable Agricultural & Environmental Education

Mar 1, 2011 - Feb 28, 2014
For: Fondazione Bruno Kessler (FBK)
Funding: 225,000 Euro

2.6.2 Coordination and Participations in Research Projects

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere
Jan 1, 2023 - Dec 31, 2027
For: Università degli Studi di Verona
Role: Team Leader of Infrastructures, Director of DAIH center, Coordination of the research activities on Artificial Intelligence and Inclusion
- NexusLinguarum (COST Action, CA18209)
European network for Web-centred linguistic data science
Jan 1, 2019 - Dec 31, 2023
Web-site: <https://nexuslinguarum.eu/>
Role: Member of Working Groups WG1 & WG2
- Le Digital Humanities applicate alle lingue e letterature straniere (MIUR Dipartimenti di Eccellenza)
Jan 1, 2018 - Dec 31, 2022
Web-site: <https://dh.dlss.univr.it/>
For: Università degli Studi di Verona
Role: Team Leader of Infrastructures (Spazi e Piattaforme Digitali)
- NewsReader (EU FP7 Strep Project, Grant 316404)
Building structured event indexes of large volumes of financial and economic data for decision making
Jan 1, 2013 - Dec 31, 2015
Web-site: https://cordis.europa.eu/project/rcn/106026_en.html
For: Fondazione Bruno Kessler (FBK)
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, Finanziato dalla Provincia di Trento ai sensi della L.P. 13.12.1999, n. 6, art. 5)
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali
Jan 1, 2012 - Dec 31, 2013
For: Fondazione Bruno Kessler (FBK)
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)
Personalized Environmental Service Configuration and Delivery Orchestration
Jan 1, 2010 - Dec 31, 2012
Web-site: https://cordis.europa.eu/project/rcn/93834_en.html
For: Fondazione Bruno Kessler (FBK)
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)
Advanced process-oriented self-directed learning environment
Mar 1, 2006 - Feb 28, 2010
Web-site: https://cordis.europa.eu/project/rcn/80574_en.html
For: Fondazione Bruno Kessler (FBK)
Role: Task-level coordination activities; Participation to the research and development activities

2.7 Resources

2.7.1 Tools

- Explicit Lyrics Detectors
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
Web-site: <https://github.com/rospocheer/explicit-lyrics-detection/>
- PSL4EA: Probabilistic Soft Logic for Entity Annotation
An ontological knowledge powered approach based on Probabilistic Soft Logic for jointly revising multiple NLP entity annotations
Web-site: <https://pikes.fbk.eu/psl4ea.html>
Video: http://videlectures.net/iswc2018_rospocheer_ontology_driven_soft/
- JPARK: Joint Posterior Revision of NLP Annotations via Ontological Knowledge
A probabilistic model leveraging ontological knowledge for improving the coherence and revise NLP entity annotations
Web-site: <https://pikes.fbk.eu/jpark.html>
- KE4IR: Knowledge Extraction for Information Retrieval
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
Web-site: <https://pikes.fbk.eu/ke4ir.html>
Video: http://videlectures.net/eswc2016_rospocheer_information_retrieval/
- PIKES: A Suite for Extracting Knowledge from Text
A framework for extracting knowledge graphs from natural language text
Web-site: <https://pikes.fbk.eu/>
Video: <https://www.youtube.com/embed/D0mcnUKc3sg>
- KnowledgeStore: Scalable storage for text and RDF data
A scalable, fault-tolerant, and Semantic Web grounded storage system to jointly store, manage, retrieve, and semantically query, both structured and unstructured content
Web-site: <https://knowledgestore.fbk.eu>
Video: <https://www.youtube.com/embed/YVOQalJLta4>
- RDFpro: An Extensible Tool for Building Stream-Oriented RDF Processing Pipelines
A public domain, Java command line tool and library for RDF processing

Web-site: <https://rdfpro.fbk.eu>

Video: <https://www.youtube.com/embed/Vd2FCVRL8fk>

- **MoKi: The modelling wiki**
A collaborative tool that supports the creation of articulated enterprise models (ontologies and business processes) through structured wiki pages
- **TeX-OWL: A Latex-Style Syntax for authoring OWL 2 ontologies**
A new latex-style syntax that can be used to write OWL 2 ontologies
Web-site: <https://github.com/dkmfbk/TexOwl>

2.7.2 Ontologies

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

2.7.3 Language Models

- **SurgicBERTa**
A pre-trained language model specific for the English surgical language, i.e., the language used in the surgical domain. SurgicBERTa has been obtained from RoBERTa through continued pre-training with the Masked-Language-Modeling objective on 300k sentences taken from English surgical books and papers, for a total of 7 million words. To the best of our knowledge, SurgicBERTa is the first pre-trained language model made available for the surgical domain
Web-site: <https://huggingface.co/marcobombieri/surgicberta/>

2.7.4 Linguistic Resources

- **Robotic Surgery Propositional Bank (RSPB)**
The Robotic-Surgery Propositional Bank is the first robotic-surgery procedural corpus, annotated with PropBank-style semantic labels. Starting from the original PropBank framebank, we enriched it by adding new lemmas, frames and semantic roles required to cover missing information in general English but needed in procedural surgical language, releasing the Robotic-Surgery Procedural Framebank (RSPF). We then collected from robotic-surgery textbooks as-is sentences for a total of 32,448 tokens, and we annotated them with RSPF labels. We so obtained and

publicly released the first annotated corpus of the robotic-surgical domain that can be used to foster further research on language understanding and procedural entities and relations extraction from clinical and surgical scientific literature

Web-site: <https://gitlab.com/altairLab/robotic-surgery-propositional-bank/>

2.7.5 Datasets

- Explicit lyrics datasets

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. An additional dataset (4K songs) is manually annotated with fine-grained explicitness information, i.e., why the song lyrics are marked as explicit (e.g., strong language, sexual reference)

Web-site: <https://github.com/rospoche/explicit-lyrics-detection/>

- Surgical Procedural Knowledge Sentences (SPKS)

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

Web-site: <https://gitlab.com/altairLab/spks-dataset/>

- Visual-Textual-Knowledge Entity Linking (VTCEL)

VTCEL, 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

Web-site: <https://doi.org/10.6084/m9.figshare.7882781.v6>

- Annotated dataset to assess the accuracy of the textual description of cultural heritage records
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)

Web-site: <https://doi.org/10.6084/m9.figshare.13359104.v1>

2.8 Professional Services

2.8.1 Journal Editorial Boards

- Member of the Editorial Board of Information Processing & Management (Elsevier Journal) since: Mar 2, 2020

<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 are published 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 are published in Volume 7, issue 4, December 2018 of the journal

<https://link.springer.com/journal/13748/volumes-and-issues/7-4>

2.8.2 Journal Reviewing

- ACM Transactions on Intelligent Systems and Technology (ACM TIST)
Web-site: <https://dl.acm.org/journal/tist>
- Applied Ontology (AO)
Web-site: <https://www.iospress.com/catalog/journals/applied-ontology>
- Artificial Intelligence (AIJ)
Web-site: <https://www.sciencedirect.com/journal/artificial-intelligence>
- IEEE Internet Computing (IEEE IC)
Web-site: <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4236>
- Information Processing & Management (IP&M)
Web-site: <https://www.sciencedirect.com/journal/information-processing-and-management>
- Information Systems (IS)
Web-site: <https://www.sciencedirect.com/journal/information-systems>
- International Journal of Semantic Computing (IJSC)
Web-site: <https://www.worldscientific.com/worldscinet/ijsc>
- International Journal of Software Engineering and Knowledge Engineering (IJSEKE)
Web-site: <https://www.worldscientific.com/worldscinet/ijseke>
- Journal of Data Semantics (JDS)
Web-site: <https://link.springer.com/journal/13740/volumes-and-issues>
- Journal of Information Science (JIS)
Web-site: <https://journals.sagepub.com/home/jis>
- Journal of Web Semantics (JWS)
Web-site: <https://www.sciencedirect.com/journal/journal-of-web-semantics>
- Natural Language Engineering (NLE)
Web-site: <https://www.cambridge.org/core/journals/natural-language-engineering>
- PeerJ Computer Science
Web-site: <https://peerj.com/computer-science/>
- Semantic Web Journal (SWJ)
Web-site: <https://www.semantic-web-journal.net/>
- Umanistica Digitale (UD)
Web-site: <https://umanisticadigitale.unibo.it/>

2.8.3 Conference / Workshop Organization

- Co-chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 38th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2023)
Mar 27, 2023 - Mar 31, 2023
Tallinn, Estonia
<https://klp.fbk.eu>
- Co-chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 37th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2022)
Apr 25, 2022 - Apr 29, 2022
Brno, Czech Republic
<https://doi.org/10.1145/3535434>

- Co-chair of the special track on Knowledge and Language Processing (KLP) at the 36th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2021)
Mar 22, 2021 - Mar 26, 2021
Gwangju, South Korea / Virtual
<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)
Mar 30, 2020 - Apr 3, 2020
Brno, Czech Republic / Virtual
<https://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)
Apr 8, 2019 - Apr 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)
Nov 20, 2018 - Nov 23, 2018
Trento, Italy
<https://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)
Apr 9, 2018 - Apr 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)
Mar 27, 2017 - Mar 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 - May 31, 2015
Portoroz, Slovenia
<https://ceur-ws.org/Vol-1363/>
- Co-Chair of the Posters and Demos track of the 13th International Semantic Web Conference (ISWC2014)
Oct 19, 2014 - Oct 23, 2014
Riva del Garda, Italy
<https://ceur-ws.org/Vol-1272/>

2.8.4 Conference / Workshop Program Committees

- International Joint Conference on Artificial Intelligence (IJCAI): 2018, 2019, 2020
- AAAI Conference on Artificial Intelligence (AAAI): 2018, 2019, 2020, 2021, 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: 2014, 2015, 2016, 2017, 2018, 2019 (SPC), 2020, 2021, 2022
 - Resource Track: 2017, 2020
 - InUse & Software Track: 2015
 - InUse Track: 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)
 - Lexical resources, linked data, ontologies Track: 2017
- 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)
 - Early Career Symposium: 2014
- 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 (AIMSA): 2012
- International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS): 2012
- Workshop on Context, Information And Ontologies (CIAO): 2010

2.9 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)

3 Teaching Activities

3.1 Membership of Ph.D. Programme/School Committees

- Teaching Committee for the PhD Programme in Foreign Languages and Literatures (University of Verona)

since: Oct 1, 2021
PhD Cycles: 37, 38

- Teaching Committee for the PhD Programme in Foreign Languages, Literatures and Linguistics
(University of Verona)
Mar 15, 2019 - Sep 30, 2021
PhD Cycles: 35, 36

3.2 Membership of Ph.D. Examination Committees

- Matteo Lorenzini
Metadata Quality Evaluation in Cultural Heritage Domain
ICT School, University of Trento
Feb 15, 2022
- Yaroslav Nechaev
Linking Knowledge Bases to Social Media Profiles
ICT School, University of Trento
Apr 15, 2019

3.3 Supervision of Ph.D. Theses

- Marco Bombieri
Automatic extraction of robotic surgery actions from text and kinematic data
University of Verona
since: Oct 1, 2019
(with Paolo Fiorini)
- Roxane Segers
Formalizing Events for Detecting Implicit Event Information in Natural Language Text
Vrije Universiteit Amsterdam
since: May 8, 2018
(with Piek Vossen)
- Antonio Arnieri
Sound and Identity in Shakespeare's Theatre
University of Verona
Jan 1, 2019 - Jul 15, 2022
(with Susanna Zinato)
- Matteo Lorenzini
Metadata Quality Evaluation in Cultural Heritage Domain
University of Trento
Nov 1, 2017 - Feb 15, 2022
(with Sara Tonelli)
- Giulio Petrucci
Learning to Learn Concept Descriptions
University of Trento
Nov 1, 2013 - Sep 21, 2018
(with Chiara Ghidini)
- Francesco Corcoglioniti
Frame-based Ontology Population from Text: Models, Systems and Applications

University of Trento
Nov 1, 2012 - Apr 21, 2016
(with Luciano Serafini)

3.4 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)

3.5 Supervision of Stages / Internship

- post-Master Research Internships (FBK, Trento):
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 (2009), 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, University of Verona:
Jasmine Touarsa (2021), Marta Cafà (2021)

3.6 Institutional teaching appointments

- Programme Director of the Bachelor's degree in Languages and Literatures for Publishing and Digital Media

Oct 1, 2021 - Sep 30, 2022

3.7 Lectureship

- Academic Year 2022-2023:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Databases and Information Systems for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Electronic commerce
Hours: 36, CFU: 6, SSD: INF/01
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
 - Python programming language
Hours: 16, CFU: 4
Ph.D. School, University of Verona, Italy
- Academic Year 2021-2022:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Databases and Information Systems for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Crash course on Python programming for the Humanities
Hours: 12, CFU: 3
Ph.D. programme in Foreign Languages and Literatures + Ph.D. programme in Linguistics, University of Verona, Italy
- Academic Year 2020-2021:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01

- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
 - Natural Language Processing for analyzing written textual resources
Hours: 4, CFU: 1
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
 - Semantic Web and Linked Data technologies for the humanities
Hours: 4, CFU: 1
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
 - Working with Textual Files: Encodings and Regular Expressions
Hours: 4, CFU: 1
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- Academic Year 2019-2020:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
 - Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
 - Electronic commerce
Hours: 36, CFU: 6, SSD: INF/01
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
Hours: 12, CFU: 3
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
Hours: 2, CFU: 0.5
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy

- Academic Year 2018-2019:

- Electronic commerce (A-L)
Hours: 36, CFU: 6, SSD: INF/01
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
- Electronic commerce (M-Z)
Hours: 36, CFU: 6, SSD: INF/01
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
Hours: 12, CFU: 3
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- Other Lectureship Activities:
 - Language Resources and Ontologies (co-lecturer: Dr. Sara Tonelli) - Master Degree in Filosofia e linguaggi della modernità, University of Trento, Italy
 - Lectures for course Language Resources and Ontologies, Master in Human Language Technology and Interface, University of Trento (2010-2011, 2011-2012)
 - Lectures for the International Winter Camp on Language and Data/Knowledge, TrentoRise (2012)
 - Lectures for course Computational Linguistics, M.Sc. in Cognitive Science, University of Trento (2012)
 - Lectures for course Business Process Re-engineering, M.Sc. in Net Economics, University of Trento (2010, 2011)
 - Lectures for course Computational Complexity, M.Sc. in Computer Science, University of Trento (2004, 2005)