

Curriculum Vitae

Marco Rospoche

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1 Informazioni Generali

1.1 Dati Personali

COGNOME: Rospoche

NOME: Marco

NAZIONALITÀ: Italiana

AFFILIAZIONE: Dipartimento di Lingue e Letterature Straniere, Università degli Studi di Verona

EDIFICIO: Palazzo di Lingue, Primo Piano, Stanza 1.12

INDIRIZZO: Lungadige Porta Vittoria, 41 – I-37129 Verona – Italy

MAPPA: <https://goo.gl/maps/8axyVxuDBhJu3uZz5>

TELEFONO: (+39) 045 8028326

E-MAIL: marco.rospoche@univr.it

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

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

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

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

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

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

1.2 Istruzione

- Dottorato in Informatica e Telecomunicazioni
ICT School, Università di Trento, Italia
31 mar 2006
Tesi: On the computational complexity of enumerating certificates of NP problems
Relatore: Prof. Romeo Rizzi
Manoscritto: <https://marcorospoche.com/files/phd/2006phd.pdf>
- Laurea in Matematica
Università di Trento, Italia
27 mar 2002
Tesi: All-Pairs and Matching-like Shortest Paths Algorithms
Relatore: 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 dic 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 dic 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: 28 dic 2018

1.5 Precedenti Esperienze di Ricerca e Lavoro

1.5.1 Precedenti Esperienze di Ricerca e Lavoro

- Ricercatore presso la Fondazione Bruno Kessler (FBK), Trento, Italia
8 mag 2007 - 27 dic 2018
- Sviluppatore Software alla S.a.i.tec. Srl c/o Phoenix Informatica Bancaria SpA, Trento, Italia
1 ago 2006 - 7 mag 2007

1.5.2 Borse di Ricerca

- Borsa di Ricerca presso il Dipartimento di Ingegneria e Scienza dell'Informazione (DISI), Università di Trento
1 nov 2005 - 31 mar 2006
- Borsa di Ricerca presso il Dipartimento di Ingegneria e Scienza dell'Informazione (DISI), Università di Trento
1 mag 2002 - 30 dic 2002

1.5.3 Borsa di Dottorato

- Dottorando (con Borsa) presso l'ICT School dell'Università di Trento
1 nov 2002 - 31 ott 2005

2 Attività di Ricerca e Titoli Relativi

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

2.3 Pubblicazioni

2.3.1 Indicatori Bibliometrici

- Google Scholar
 - Citazioni: 1905
 - H-index: 25
 - i10-Index: 49
- Scopus
 - Citazioni: 1027
 - H-index: 17
 - H-index (escl. auto-citazioni): 16

2.3.2 Articoli su Rivista

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 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: 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 Rospo**cher, and Chiara Ghidini. Expressive Ontology Learning as Neural Machine Translation. *Journal of Web Semantics*, vol. 52-53:66-82. Elsevier B.V.. ISSN: 1570-8268 (2018)
DOI: 10.1016/j.websem.2018.10.002
URL: <https://www.sciencedirect.com/science/article/pii/S1570826818300507>
13. Francesco Corcoglioniti, **Marco Rospo**cher, and Alessio Palmero Aprosio. Frame-Based Ontology Population with PIKES. *IEEE Transactions on Knowledge and Data Engineering*, vol. 28(12):3261–3275. IEEE. ISSN: 1041-4347 (2016)
DOI: 10.1109/TKDE.2016.2602206
URL: <https://ieeexplore.ieee.org/document/7549111/>
12. Piek Vossen, Rodrigo Agerri, Itziar Aldabe, Agata Cybulska, Marieke van Erp, Antske Fokkens, Egoitz Laparra, Anne-Lyse Minard, Alessio Palmero Aprosio, German Rigau, **Marco Rospo**cher, and Roxane Segers. NewsReader: Using knowledge resources in a cross-lingual reading machine to generate more knowledge from massive streams of news. *Knowledge-Based Systems*, vol. 110:60–85. Elsevier B.V.. ISSN: 0950-7051 (2016)
DOI: 10.1016/j.knosys.2016.07.013
URL: <http://www.sciencedirect.com/science/article/pii/S0950705116302271>
11. **Marco Rospo**cher, Marieke van Erp, Piek Vossen, Antske Fokkens, Itziar Aldabe, German Rigau, Aitor Soroa, Thomas Ploeger, and Tessel Bogaard. Building Event-Centric Knowledge Graphs from News. *Web Semantics: Science, Services and Agents on the World Wide Web*, vol. 37-38:132–151. Elsevier B.V.. ISSN: 1570-8268 (2016)
DOI: 10.1016/j.websem.2015.12.004
URL: <http://www.sciencedirect.com/science/article/pii/S1570826815001456>
10. Sofia Cramerotti, Massimo Turrini, Marco Buccio, Silvia Larentis, **Marco Rospo**cher, Luciano Serafini, Elena Cardillo, and Ivan Donadello. ePlanning: an Ontology-based System for Building Individualized Education Plans for Students with Special Educational Needs. *MED – Media Education*, vol. 6(1):101–110. Edizioni Centro Studi Erickson S.p.a.. ISSN: 2038-3002 (2015)
URL: http://riviste.erickson.it/med/wp-content/uploads/07_Cramerotti_I_2015_fin.pdf

9. Francesco Corcoglioniti, **Marco Rospoche**r, 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/2014/12/06776520/13rUwbs1SV>
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 Rospo**cher. 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 Capitoli di Libro

5. Paolo Frassi and **Marco Rospo**cher. 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 Rospo**cher, Roldano Cattoni, Bernardo Magnini, and Luciano Serafini. Managing Large Volumes of Interlinked Text and Knowledge With the KnowledgeStore. 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 Rospo**cher. 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 Rospo**cher, Chiara Ghidini, Stefanie Lindstaedt, and Luciano Serafini. Applications of Semantic Wikis. In Paul Warren, John Davies, and Elena Simperl (editors), *Context and Semantics for Knowledge Management: Technologies for Personal Productivity*, chapter 12, pages 229–254. Springer-Verlag. ISBN: 978-3-642-19509-9; 978-3-642-19510-5 (2011)
DOI: 10.1007/978-3-642-19510-5_12
URL: http://link.springer.com/content/pdf/10.1007/978-3-642-19510-5_12
1. Claudio Eccher, Antonella Ferro, Andreas Seyfang, **Marco Rospo**cher, 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 Atti di Conferenze

53. Marco Bombieri, **Marco Rospo**cher, 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>
52. 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>
 51. 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
 50. 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
 49. 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: <http://ebooks.iospress.nl/volumearticle/55237>
 48. Matteo Lorenzini, **Marco Rospo**cher, and Sara Tonelli. Computer-Assisted Curation of Digital Cultural Heritage Resources. In *Digital Humanities 2019 (DH2019)* (2019)
 47. **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
 46. 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

45. **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>
44. 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>
43. 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>
42. 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
41. 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)
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2.3.6 Editoriali

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URL: <http://ceur-ws.org/Vol-1272/>

2.4 Presentazioni

2.4.1 Presentazioni / Seminari su Invito

- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge
NLP seminar series at Dublin City University / ADAPT Centre - Dublin, Ireland
13 feb 2023
Slides: http://marcorospoher.com/files/slides/2023adapt_slides.pdf
- Knowledge representation and reasoning with ontologies
Commonsense Reasoning in Surgical Robotics (COSUR) summer school - Verona, Italy
3 mag 2022
Slides: http://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
22 gen 2021
Slides: http://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
4 dic 2019
Slides: https://marcorospoher.com/files/slides/2019DIuniVR_slides.pdf

- Improving NLP Entity Annotations via Ontological Knowledge
SCC Seminar Series (FBK) - Trento, Italy
15 nov 2018
Slides: https://marcorospoche.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
4 ott 2018
Slides: https://marcorospoche.com/files/slides/2018semdeep4_slides.pdf
- KnowledgeStore
NewsReader Workshop - Amsterdam Public Library, Amsterdam, Netherlands
21 nov 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
19 mar 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
18 mar 2015
Slides: https://marcorospoche.com/files/slides/2015dati_slides.pdf
- KnowledgeStore
Workshop on Deep and Large-Scale Semantic Processing: The Way Ahead - Trento, Italy
10 mar 2015
Slides: https://marcorospoche.com/files/slides/2015jpn_slides.pdf
- Semantic Management in PESCaDO
PESCaDO Final Event - UPF, Barcelona, Spain
14 feb 2012
Slides: https://marcorospoche.com/files/slides/2012pescado_slides.pdf
- Collaborative modeling of processes and ontologies
BMIR Research Colloquium - Stanford University, Palo Alto, US
22 set 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
7 apr 2011
Slides: https://marcorospoche.com/files/slides/2011deri_slides.pdf
- MoKi and the ProDe project
ICT Days - University of Trento, Trento, Italy
16 mar 2011
Slides: https://marcorospoche.com/files/slides/2011ict_slides.pdf
- MoKi: the Modelling Wiki
ILIKS Annual Meeting - Trento, Italy

18 dic 2009

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

- Organic Agriculture and MoKi
Organic.Edunet Ontology Workshop Meeting - FAO, Rome, Italy
6 ott 2009
- Modelling in APOSDLE
ACTIVE EU Project Meeting - STI, Innsbruck, Austria
27 gen 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
18 ott 2006
Slides: https://marcorospoche.com/files/slides/2006itc_slides.pdf

2.4.2 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
10 dic 2021
- Ontologie e locuzioni: modellizzazione di termini complessi nell'ambito del progetto DIACOM
XXX Convegno Associazione Italiana per la Terminologia - Bolzano, Italia
15 ott 2020 - 16 ott 2020
- An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations
17th International Semantic Web Conference, ISWC 2018 - Monterey, CA, USA
8 ott 2018 - 12 ott 2018
Slides: https://marcorospoche.com/files/slides/2018iswc_research_slides.pdf
Video: http://videolectures.net/iswc2018_ropoche_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
13 lug 2018 - 19 lug 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
29 mag 2016 - 2 giu 2016
Slides: https://marcorospoche.com/files/slides/2016eswc_slides.pdf
Video: http://videolectures.net/eswc2016_ropoche_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
13 apr 2015 - 17 apr 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

24 nov 2014 - 28 nov 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
16 ott 2014 - 18 ott 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
22 set 2014 - 25 set 2014
Slides: https://marcorospoche.com/files/slides/2014foisbpmn_slides.pdf
- An ontology for personalized environmental decision support
8th International Conference on Formal Ontologies and Information Systems, FOIS2014 - Rio de Janeiro, Brazil
22 set 2014 - 25 set 2014
Slides: https://marcorospoche.com/files/slides/2014foispescado_slides.pdf
- Interlinking Unstructured and Structured Knowledge in an Integrated Framework
7th IEEE International Conference on Semantic Computing, ICSC2013 - Irvine, CA, USA
16 set 2013 - 18 set 2013
Slides: https://marcorospoche.com/files/slides/2013icsc_slides.pdf
- An Ontological Framework for Decision Support
2nd Joint International Semantic Technology Conference, JIST2012 - Nara, Japan
2 dic 2012 - 4 dic 2012
Slides: https://marcorospoche.com/files/slides/2012jist_slides.pdf
- Evaluating wiki-enhanced ontology authoring
18th International Conference on Knowledge Engineering and Knowledge Management, EKAW2012
- Galway, Ireland
8 ott 2012 - 12 ott 2012
Slides: https://marcorospoche.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
30 gen 2012 - 4 feb 2012
Slides: https://marcorospoche.com/files/slides/2012eknow_slides.pdf
- Boosting collaborative ontology building with key-concept extraction
5th IEEE International Conference on Semantic Computing, ICSC2011 - Palo Alto, CA, USA
18 set 2011 - 21 set 2011
Slides: https://marcorospoche.com/files/slides/2011icsc_slides.pdf
- Reasoning on Semantically Annotated Processes
6th International Conference on Service-Oriented Computing, ICSOC2008 - Sydney, Australia
1 dic 2008 - 5 dic 2008
Slides: https://marcorospoche.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
3 set 2008 - 5 set 2008
Slides: https://marcorospoche.com/files/slides/2008isemantics_slides.pdf

2.4.3 Presentazioni a Workshop

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

2.4.4 Dimostrazioni e Presentazioni di Poster a Conferenza

- Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning
32nd Annual ACM Symposium on Applied Computing, ACM-SAC2017 - Marrakesh, Morocco
3 apr 2017 - 7 apr 2017
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 - Bethlehem, USA
11 ott 2015 - 15 ott 2015
Poster: https://marcorospoche.com/files/posters/2015iswcdemo2_poster.pdf
- Extracting Knowledge from Text with PIKES
ISWC 2015 Posters & Demonstrations Track - Bethlehem, USA
11 ott 2015 - 15 ott 2015
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 - Linköping, Sweden
24 nov 2014 - 28 nov 2014
Poster: https://marcorospoche.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
8 ott 2012 - 12 ott 2012
Poster: https://marcorospoche.com/files/posters/2012ekawdemo_poster.pdf
- MoKi: a Wiki-Based Conceptual Modeling Tool
EKAW2010 Poster and Demo Track - Lisbona, Portugal
11 ott 2010 - 15 ott 2010
Poster: https://marcorospoche.com/files/posters/2010ekawdemo_2_poster.pdf

- MoKi: The Enterprise Modelling Wiki
6th European Semantic Web Conference, ESWC 2009 - Heraklion, Crete, Greece
31 mag 2009 - 4 giu 2009
Poster: https://marcorospoher.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
29 set 2008 - 3 ott 2008
Poster: https://marcorospoher.com/files/posters/2008ekaw_poster.pdf

2.5 Periodi di Ricerca all'Estero

- Visiting Scholar al Musen Lab, Stanford Center for Biomedical Informatics Research, Stanford University
1 set 2013 - 31 dic 2013
Host: Dr. Tania Tudorache, Prof. Dr. Md. Mark Musen
Argomento di ricerca: Studio comparativo della dinamiche collaborative in vari ambienti di sviluppo per ontologie
- Visiting Research Associate alla School of Electrical Engineering and Computer Science, University of Newcastle, NSW, Australia
15 gen 2005 - 15 apr 2005
Host: Prof. Pablo Moscato
Argomento di ricerca: Sviluppo di algoritmi di ottimizzazione combinatorica nell'ambito della biologia computazionale

2.6 Progetti di Ricerca

2.6.1 Acquisizioni di Progetti di Ricerca

Ho contribuito all'acquisizione dei seguenti progetti di ricerca:

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere
1 gen 2023 - 31 dic 2027
Per: Università degli Studi di Verona
Finanziamento: 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
1 gen 2013 - 31 dic 2015
Per: Fondazione Bruno Kessler (FBK)
Finanziamento: 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
1 gen 2012 - 31 dic 2013
Per: Fondazione Bruno Kessler (FBK)
Finanziamento: 114,000 Euro

- Organic.Lingua (EU FP7 ICP Project, Grant 270999)
Demonstrating the potential of a multilingual Web portal for Sustainable Agricultural \& Environmental Education
1 mar 2011 - 28 feb 2014
Per: Fondazione Bruno Kessler (FBK)
Finanziamento: 225,000 Euro

2.6.2 Coordinamento e Partecipazioni in Progetti di Ricerca

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere
1 gen 2023 - 31 dic 2027
Per: Università degli Studi di Verona
Ruolo: Team Leader (Referente) Infrastrutture, Direttore Centro DAIH, Coordinamento delle attività di ricerca su Intelligenza Artificiale e Inclusione
- NexusLinguarum (COST Action, CA18209)
European network for Web-centred linguistic data science
1 gen 2019 - 31 dic 2023
Sito web: <https://nexuslinguarum.eu/>
Ruolo: Membro dei Working Groups WG1 & WG2
- Le Digital Humanities applicate alle lingue e letterature straniere (MIUR Dipartimenti di Eccellenza)
1 gen 2018 - 31 dic 2022
Sito web: <http://dh.dlls.univr.it/>
Per: Università degli Studi di Verona
Ruolo: Team Leader (Referente) Infrastrutture (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
1 gen 2013 - 31 dic 2015
Sito web: https://cordis.europa.eu/project/rcn/106026_en.html
Per: Fondazione Bruno Kessler (FBK)
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)
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali
1 gen 2012 - 31 dic 2013
Per: Fondazione Bruno Kessler (FBK)
Ruolo: 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)
Personalized Environmental Service Configuration and Delivery Orchestration
1 gen 2010 - 31 dic 2012

Sito web: https://cordis.europa.eu/project/rcn/93834_en.html

Per: Fondazione Bruno Kessler (FBK)

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)

Advanced process-oriented self-directed learning environment

1 mar 2006 - 28 feb 2010

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

Per: Fondazione Bruno Kessler (FBK)

Ruolo: Attività di coordinamento a livello di una singola attività di progetto; partecipazione alle attività di ricerca e sviluppo

2.7 Risorse

2.7.1 Strumenti

- Explicit Lyrics Detectors

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

Sito web: <https://github.com/rospoche/explicit-lyrics-detection/>

- PSL4EA: Probabilistic Soft Logic for Entity Annotation

Un approccio basato sulla Probabilistic Soft Logic per rivedere congiuntamente, sfruttando, conoscenza ontologica di background, le annotazioni NLP riguardanti entità

Sito web: <http://pikes.fbk.eu/psl4ea.html>

Video: http://videolectures.net/iswc2018_rospoche_ontology_driven_soft/

- JPARK: Joint Posterior Revision of NLP Annotations via Ontological Knowledge

Un modello probabilistico che sfrutta conoscenza ontologica di background per migliorare la coerenza e rivedere le annotazioni NLP riguardanti entità

Sito web: <http://pikes.fbk.eu/jpark.html>

- KE4IR: Knowledge Extraction for Information Retrieval

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)

Sito web: <http://pikes.fbk.eu/ke4ir.html>

Video: http://videolectures.net/eswc2016_rospoche_information_retrieval/

- PIKES: A Suite for Extracting Knowledge from Text

Uno strumento per estrarre Knowledge Graphs da testi in linguaggio naturale

Sito web: <http://pikes.fbk.eu/>

Video: <https://www.youtube.com/embed/D0mcnUKc3sg>

- KnowledgeStore: Scalable storage for text and RDF data

Uno strumento scalabile e robusto, basato su tecnologie del Semantic Web, per memorizzare,

gestire, recuperare, e interrogare semanticamente, contenuti sia strutturati che non strutturati
Sito web: <http://knowledgestore.fbk.eu>

Video: <https://www.youtube.com/embed/YVOQaljLta4>

- **RDFpro: An Extensible Tool for Building Stream-Oriented RDF Processing Pipelines**
Uno strumento Java (disponibile sia da riga di comando che come libreria) per processare contenuto RDF
Sito web: <http://rdfpro.fbk.eu>
Video: <https://www.youtube.com/embed/Vd2FCVRL8fk>
- **MoKi: The modelling wiki**
Uno strumento collaborativo, ispirato a Wikipedia, per la creazione di complessi modelli aziendali (ontologie e processi di business)
- **TeX-OWL: A Latex-Style Syntax for authoring OWL 2 ontologies**
Una nuova sintassi stile latex per scrivere ontologie OWL 2
Sito web: <https://github.com/dkmfbk/TeXOwl>

2.7.2 Ontologie

- **PreMOn: Predicate Model for Ontologies**
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
Sito web: <https://premon.fbk.eu/>
- **The Event and Situation Ontology (ESO)**
Una risorsa che formalizza le pre e post condizioni di eventi, e il loro effetto sulle entità che partecipano all'evento
Sito web: <https://github.com/newsreader/eso/>
- **The PESCaDO Ontology**
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
Sito web: <https://marcorospoher.com/backup-resources/pescado/>
- **The BPMN Ontology**
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]
Sito web: <https://marcorospoher.com/backup-resources/bpmn/>

2.7.3 Modelli del Linguaggio

- **SurgicBERTa**
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
Sito web: <https://huggingface.co/marcobombieri/surgicberta/>

2.7.4 Risorse Linguistiche

- Robotic Surgery Propositional Bank (RSPB)

Il Robotic-Surgery Propositional Bank è il primo corpus procedurale di chirurgia robotica, annotato con etichette semantiche in stile PropBank. Partendo dal framebank originale di PropBank, l'abbiamo arricchito aggiungendo nuovi lemmi, frame e ruoli semantici necessari per coprire le informazioni, mancanti in inglese generale, ma necessarie nel linguaggio procedurale chirurgico, rilasciando così il Robotic-Surgery Propositional Framebank (RSPF). Abbiamo quindi raccolto da testi di chirurgia robotica frasi senza modificarle, per un totale di 32.448 token, e le abbiamo annotate con le etichette di RSPF. Abbiamo così ottenuto e rilasciato pubblicamente il primo corpus annotato per il dominio della chirurgia robotica che può essere utilizzato per promuovere ulteriori ricerche sull'interpretazione del linguaggio e l'estrazione di entità e relazioni procedurali dalla letteratura scientifica clinica e chirurgica

Sito web: <https://gitlab.com/altairLab/robotic-surgery-propositional-bank/>

2.7.5 Datasets

- Explicit lyrics datasets

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. Un ulteriore dataset (4K canzoni) è annotato manualmente con informazioni dettagliate sull'esplicità delle canzoni, ovvero sul perché i testi delle canzoni sono contrassegnati come espliciti (ad esempio, linguaggio forte, riferimenti sessuali)

Sito web: <https://github.com/rosPOCHER/explicit-lyrics-detection/>

- Surgical Procedural Knowledge Sentences (SPKS)

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

Sito web: <https://gitlab.com/altairLab/spks-dataset/>

- Visual-Textual-Knowledge Entity Linking (VTKel)

VTKel, 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

Sito web: <https://doi.org/10.6084/m9.figshare.7882781.v6>

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

Sito web: <https://doi.org/10.6084/m9.figshare.13359104.v1>

2.8 Servizi Professionali

2.8.1 Partecipazione a comitati editoriali di riviste

- Membro dell'Editorial Board della rivista internazionale Information Processing & Management (Elsevier Journal)

dal: 2 mar 2020

<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 sono pubblicati nel 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 sono pubblicati nel Volume 7, issue 4, December 2018 della rivista
<https://link.springer.com/journal/13748/volumes-and-issues/7-4>

2.8.2 Attività di reviewing per riviste

- ACM Transactions on Intelligent Systems and Technology (ACM TIST)
Sito web: <https://dl.acm.org/journal/tist>
- Applied Ontology (AO)
Sito web: <https://www.iospress.com/catalog/journals/applied-ontology>
- Artificial Intelligence (AIJ)
Sito web: <https://www.sciencedirect.com/journal/artificial-intelligence>
- IEEE Internet Computing (IEEE IC)
Sito web: <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4236>
- Information Processing & Management (IP&M)
Sito web: <https://www.journals.elsevier.com/information-processing-and-management>
- Information Systems (IS)
Sito web: <https://www.journals.elsevier.com/information-systems/>
- International Journal of Semantic Computing (IJSC)
Sito web: <http://www.worldscientific.com/worldscinet/ijsc>
- International Journal of Software Engineering and Knowledge Engineering (IJSEKE)
Sito web: <http://www.worldscientific.com/worldscinet/ijseke>
- Journal of Data Semantics (JDS)
Sito web: <https://www.springer.com/computer/database+management+%26+information+retrieval/journal>
- Journal of Information Science (JIS)
Sito web: <http://jis.sagepub.com>
- Journal of Web Semantics (JWS)
Sito web: <http://www.journals.elsevier.com/journal-of-web-semantics>
- Natural Language Engineering (NLE)
Sito web: <https://www.cambridge.org/core/journals/natural-language-engineering>
- PeerJ Computer Science
Sito web: <https://peerj.com/computer-science/>
- Semantic Web Journal (SWJ)
Sito web: <http://www.semantic-web-journal.net/>
- Umanistica Digitale (UD)
Sito web: <https://umanisticadigitale.unibo.it/>

2.8.3 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 mar 2023 - 31 mar 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 apr 2022 - 29 apr 2022
Brno, Czech Republic
<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 mar 2021 - 26 mar 2021
Gwangju, South Korea / Virtual
<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 mar 2020 - 3 apr 2020
Brno, Czech Republic / Virtual
<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 apr 2019 - 12 apr 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 nov 2018 - 23 nov 2018
Trento, Italy
<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 apr 2018 - 13 apr 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 mar 2017 - 31 mar 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 mag 2015 - 31 mag 2015

Portoroz, Slovenia
<http://ceur-ws.org/Vol-1363/>

- Co-Chair della Posters and Demos track della 13th International Semantic Web Conference (ISWC2014)
19 ott 2014 - 23 ott 2014
Riva del Garda, Italy
<http://ceur-ws.org/Vol-1272/>

2.8.4 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: 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 (AIM-SA): 2012
- International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS): 2012
- Workshop on Context, Information And Ontologies (CIAO): 2010

2.9 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)

3 Attività Didattiche

3.1 Partecipazioni al Collegio di Scuole/Corsi di Dottorato

- Collegio dei Docenti del Dottorato in Lingue e Letterature Straniere (Università degli Studi di Verona)
dal: 1 ott 2021
Cicli Dottorato: 37, 38
- Collegio dei Docenti del Dottorato in Letterature Straniere, Lingue e Linguistica (Università degli Studi di Verona)
15 mar 2019 - 30 set 2021
Cicli Dottorato: 35, 36

3.2 Partecipazioni a Commissioni di Dottorato

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

3.3 Relatore di tesi di Dottorato

- Marco Bombieri
Automatic extraction of robotic surgery actions from text and kinematic data
Università degli Studi di Verona
dal: 1 ott 2019
(assieme a Paolo Fiorini)
- Roxane Segers
Formalizing Events for Detecting Implicit Event Information in Natural Language Text
Vrije Universiteit Amsterdam
dal: 8 mag 2018
(assieme a Piek Vossen)
- Antonio Arnieri
Sound and Identity in Shakespeare's Theatre
Università degli Studi di Verona
1 gen 2019 - 15 lug 2022
(assieme a Susanna Zinato)

- Matteo Lorenzini
Metadata Quality Evaluation in Cultural Heritage Domain
Università degli Studi di Trento
1 nov 2017 - 15 feb 2022
(assieme a Sara Tonelli)
- Giulio Petrucci
Learning to Learn Concept Descriptions
Università degli Studi di Trento
1 nov 2013 - 21 set 2018
(assieme a Chiara Ghidini)
- Francesco Corcoglioniti
Frame-based Ontology Population from Text: Models, Systems and Applications
Università degli Studi di Trento
1 nov 2012 - 21 apr 2016
(assieme a Luciano Serafini)

3.4 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 degli Studi 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 degli Studi 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 degli Studi di Verona:
Rebecca Guolo (2022), Amedeo Onnis (2022)
- Laurea in Lingue e Culture per il Turismo e il Commercio Internazionale, Università degli Studi di Verona:
Francesca Laganà (2020), Lukasz Kolasowski (2020), Sara Turrini (2021)

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

- Borse di studio post-laurea (FBK, Trento):
Gianluca Maguolo (2018)
- LCT European Masters Program, Università di Trento:
Yiqing Liang (2017)

- Laurea Magistrale in Informatica, Università di Trento:
Nahid E Mahbub (2009), Md Kamrul Hasan (2009)
- Laurea in Informatica, Università di Trento:
Gianluca Apriceno (2015), Enrico Magnago (2015), Alessio Scussel (2016)
- Laurea in Lingue e Letterature per l'Editoria e i Media Digitali, Università degli Studi di Verona:
Jasmine Touarsa (2021), Marta Cafà (2021)

3.6 Incarichi didattici Istituzionali

- Referente del Corso di Studio della Laurea in Lingue e Letterature per l'Editoria e i Media Digitali
1 ott 2021 - 30 set 2022

3.7 Insegnamenti

- Anno Accademico 2022-2023:
 - Introduzione all'informatica umanistica
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
 - Linguaggi di programmazione per l'ambito umanistico
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
 - Sistemi informativi e basi di dati per l'ambito umanistico
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
 - Electronic commerce
Ore: 36, CFU: 6, SSD: INF/01
Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università degli Studi di Verona, Italia
 - Python programming language
Ore: 16, CFU: 4
Scuola di Dottorato, Università degli Studi di Verona, Italia
- Anno Accademico 2021-2022:
 - Introduzione all'informatica umanistica
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
 - Linguaggi di programmazione per l'ambito umanistico
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia

- Sistemi informativi e basi di dati per l'ambito umanistico
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
- Crash course on Python programming for the Humanities
Ore: 12, CFU: 3
Dottorato in Lingue e Letterature Straniere + Dottorato in Linguistica, Università degli Studi di Verona, Italia
- Anno Accademico 2020-2021:
 - Introduzione all'informatica umanistica
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
 - Linguaggi di programmazione per l'ambito umanistico
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
 - Informatica per gli studi umanistici
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e culture per l'editoria, Università degli Studi di Verona, Italia
 - Natural Language Processing for analyzing written textual resources
Ore: 4, CFU: 1
Dottorato in Letterature Straniere, Lingue e Linguistica, Università degli Studi di Verona, Italia
 - Semantic Web and Linked Data technologies for the humanities
Ore: 4, CFU: 1
Dottorato in Letterature Straniere, Lingue e Linguistica, Università degli Studi di Verona, Italia
 - Working with Textual Files: Encodings and Regular Expressions
Ore: 4, CFU: 1
Dottorato in Letterature Straniere, Lingue e Linguistica, Università degli Studi di Verona, Italia
- Anno Accademico 2019-2020:
 - Introduzione all'informatica umanistica
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e letterature per l'editoria e i media digitali, Università degli Studi di Verona, Italia
 - Informatica per gli studi umanistici
Ore: 36, CFU: 6, SSD: INF/01
Laurea in Lingue e culture per l'editoria, Università degli Studi di Verona, Italia
 - Electronic commerce
Ore: 36, CFU: 6, SSD: INF/01
Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università degli Studi di Verona, Italia

- A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research
Ore: 12, CFU: 3
Dottorato in Letterature Straniere, Lingue e Linguistica, Università degli Studi di Verona, Italia
- The eXtensible Markup Language (XML) and the Textual Encoding Initiative (TEI): standards for text representation in the humanities
Ore: 2, CFU: 0.5
Dottorato in Letterature Straniere, Lingue e Linguistica, Università degli Studi di Verona, Italia
- Anno Accademico 2018-2019:
 - Electronic commerce (A-L)
Ore: 36, CFU: 6, SSD: INF/01
Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università degli Studi di Verona, Italia
 - Electronic commerce (M-Z)
Ore: 36, CFU: 6, SSD: INF/01
Laurea magistrale in Lingue per la comunicazione turistica e commerciale, Università degli Studi di Verona, Italia
 - A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research
Ore: 12, CFU: 3
Dottorato in Letterature Straniere, Lingue e Linguistica, Università degli Studi di Verona, Italia
- Altre attività di insegnamento:
 - Language Resources and Ontologies (co-titolare al 50% con Dr. Sara Tonelli) - Laurea Magistrale in Filosofia e linguaggi della modernità, Università di Trento, Italia
 - Lezioni per il corso Language Resources and Ontologies, Master in Human Language Technology and Interface, Università di Trento (2010-2011, 2011-2012)
 - Lezioni per l'International Winter Camp on Language and Data/Knowledge, TrentoRise (2012)
 - Lezioni per il corso Computational Linguistics, Laurea Magistrale in Scienze Cognitive, Università di Trento (2012)
 - Lezioni per il corso Business Process Re-engineering, Laurea Magistrale in Net Economics, Università di Trento (2010, 2011)
 - Lezioni per il corso Computational Complexity, Laurea Magistrale in Informatica, Università di Trento (2004, 2005)