

Curriculum Vitae

Marco Rospoche

Aggiornato: 29 maggio 2023

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: <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 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 Incarichi

- Direttore del centro di ricerca interdisciplinare "Digital Arena for Inclusive Humanities (DAIH)". DAIH è centro di eccellenza nell'ambito delle tecnologie digitali e delle analisi computazionali applicate alle lingue e letterature e che si pone l'obiettivo di favorire e promuovere l'inclusione a livello di ricerca, infrastrutture, formazione e divulgazione di contenuti scientifici per superare le disparità, disuguaglianze e discriminazioni della società moderna.

Sito web: <https://www.dlls.univr.it/?ent=bibliocr&id=362&tipobc=6>

dal: 15 feb 2023

2.3 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/>

2.4 Pubblicazioni

2.4.1 Indicatori Bibliometrici

- Google Scholar
 - Citazioni: 1940
 - H-index: 25
 - i10-Index: 51
- Scopus
 - Citazioni: 1046

- H-index: 17
- H-index (escl. auto-citazioni): 16

2.4.2 Articoli su Rivista

28. Marco Bombieri, **Marco Rospoche**r, Simone Paolo Ponzetto, and Paolo Fiorini. The Robotic-Surgery Propositional Bank. *Language Resources and Evaluation* (to appear)
27. **Marco Rospoche**r. Detecting explicit lyrics: a case study in Italian music. *Language Resources and Evaluation*, vol. 57(2):849–867 (2023)
DOI: 10.1007/s10579-022-09595-3
Scopus: 2-s2.0-85130242158
WoS: WOS:000798410500001
URL: <https://doi.org/10.1007/s10579-022-09595-3>
26. **Marco Rospoche**r and Samaneh Eksir. Assessing Fine-Grained Explicitness of Song Lyrics. *Information*, vol. 14(3). ISSN: 2078-2489 (2023)
DOI: 10.3390/info14030159
Scopus: 2-s2.0-85151097162
WoS: WOS:000955318200001
URL: <https://www.mdpi.com/2078-2489/14/3/159>
25. Marco Bombieri, **Marco Rospoche**r, 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: 10.1016/j.combiomed.2022.106415
Scopus: 2-s2.0-85144338000
WoS: WOS:000900243500001
URL: <https://www.sciencedirect.com/science/article/pii/S0010482522011234>
24. **Marco Rospoche**r. On exploiting transformers for detecting explicit song lyrics. *Entertainment Computing*, vol. 43:100508. ISSN: 1875-9521 (2022)
DOI: 10.1016/j.entcom.2022.100508
Scopus: 2-s2.0-85132214046
WoS: WOS:000822791600001
URL: <https://www.sciencedirect.com/science/article/pii/S1875952122000325>
23. Shahi Dost, Luciano Serafini, **Marco Rospoche**r, 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
Scopus: 2-s2.0-85123608690
WoS: WOS:000791242800002
URL: <https://www.sciencedirect.com/science/article/pii/S0169023X2100094X>
22. Matteo Lorenzini, **Marco Rospoche**r, 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
Scopus: 2-s2.0-85105217980

WoS: WOS:000642397400001
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
Scopus: 2-s2.0-85105190196
WoS: WOS:000642361700001
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
Scopus: 2-s2.0-85089102640
WoS: WOS:000582115400006
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
Scopus: 2-s2.0-85139912523
WoS: WOS:000756289000016
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
Scopus: 2-s2.0-85093703848
WoS: WOS:000598338300006
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
Scopus: 2-s2.0-85066428245
WoS: WOS:000488080900005
URL: <https://content.iospress.com/articles/semantic-web/sw325>
15. **Marco Rospo**cher, Francesco Corcoglioniti, and Alessio Palmero Aprosio. PreMON: LODifying Linguistic Predicate Models. *Language Resources and Evaluation*, vol. 53(3):499–524 (2019)
DOI: 10.1007/s10579-018-9437-8

Scopus: 2-s2.0-85057966885

WoS: WOS:000482894600007

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
Scopus: 2-s2.0-85056574730
WoS: WOS:000451072400005
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
Scopus: 2-s2.0-84996478366
WoS: WOS:000388214700010
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
Scopus: 2-s2.0-84978884184
WoS: WOS:000384384700005
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
Scopus: 2-s2.0-84994652650
WoS: WOS:000376457600009
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
Scopus: 2-s2.0-84945185646

WoS: WOS:000370276700001

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
Scopus: 2-s2.0-84930819621
WoS: WOS:000355958900006
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
Scopus: 2-s2.0-84939947866
WoS: WOS:000353746900002
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
Scopus: 2-s2.0-84910032865
WoS: WOS:000344993900011
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
Scopus: 2-s2.0-84655162200
WoS: WOS:000298300200004
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

Scopus: 2-s2.0-84872457931

WoS: WOS:000312382000004

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

Scopus: 2-s2.0-79956161089

WoS: WOS:000290859800004

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

1. Romeo Rizzi and **Marco Rospoche**r. 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

Scopus: 2-s2.0-33744987451

WoS: WOS:000238851700012

URL: <https://www.sciencedirect.com/science/article/pii/S0012365X06001968>

2.4.3 Capitoli di Libro

6. Paolo Frassi and **Marco Rospoche**r. 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

5. Francesco Corcoglioniti, **Marco Rospoche**r, Roldano Cattoni, Bernardo Magnini, and Luciano Serafini. The KnowledgeStore: A Storage Framework for Interlinking Unstructured and Structured Knowledge. In *Information Retrieval and Management: Concepts, Methodologies, Tools, and Applications*, pages 686–721. IGI Global. ISBN: 9781522551911 (2018)

DOI: 10.4018/978-1-5225-5191-1.ch030

Scopus: 2-s2.0-85045866067

URL: <https://www.igi-global.com/gateway/chapter/198572>

4. Francesco Corcoglioniti, **Marco Rospoche**r, 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 Rospoche**r. 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)

Semantic Sentiment Analysis Award (Task 3 - Frame entities Identification) at the Semantic Web Evaluation

DOI: 10.1007/978-3-319-25518-7_22

Scopus: 2-s2.0-84951325878

WoS: WOS:000369663000022

URL: https://link.springer.com/chapter/10.1007/978-3-319-25518-7_22

2. Michael Erdmann, Daniel Hansch, Viktoria Pammer, **Marco Rospoche**r, 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 Rospoche**r, 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
Scopus: 2-s2.0-70350380476
WoS: WOS:000270024300004
URL: https://link.springer.com/chapter/10.1007/978-3-642-03262-2_4

2.4.4 Atti di Conferenze

52. Marco Bombieri, **Marco Rospoche**r, 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)
Scopus: 2-s2.0-85144346394
WoS: WOS:000889371704006
URL: <https://aclanthology.org/2022.lrec-1.420>
51. Shahi Dost, Luciano Serafini, **Marco Rospoche**r, 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
Scopus: 2-s2.0-85083037406
WoS: WOS:000569720900277
URL: <https://dl.acm.org/doi/abs/10.1145/3341105.3373958>
50. Shahi Dost, Luciano Serafini, **Marco Rospoche**r, Lamberto Ballan, and Alessandro Sperduti. Jointly Linking Visual and Textual Entity Mentions with Background Knowledge. In Elisabeth Métais, Farid Meiziane, 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
Scopus: 2-s2.0-85087532006
WoS: WOS:000884363500024
URL: https://link.springer.com/chapter/10.1007%2F978-3-030-51310-8_24

49. Shahi Dost, Luciano Serafini, **Marco Rospoche**r, 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
Scopus: 2-s2.0-85083462229
WoS: WOS:000565450400031
URL: <https://ieeexplore.ieee.org/document/9031450>
48. Shahi Dost, Luciano Serafini, **Marco Rospoche**r, 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
Scopus: 2-s2.0-85091769080
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2.4.5 Atti di Workshop

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2.4.6 Editoriali

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3. Mauro Dragoni and **Marco Rospoher**. 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)
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Scopus: 2-s2.0-84921889682
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2.5 Presentazioni

2.5.1 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: https://marcorospocher.com/files/slides/2023adapt_slides.pdf
- Knowledge representation and reasoning with ontologies
Commonsense Reasoning in Surgical Robotics (COSER) summer school - Verona, Italy
3 mag 2022
Slides: https://marcorospocher.com/files/slides/2022coser_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: https://marcorospocher.com/files/slides/2021mtl_slides.pdf
Video: <https://www.youtube.com/watch?t=274&v=L8rn6nt7mNE>
- Modelling, learning and populating ontologies for the Semantic Web
Department of Computer Science, University of Verona - Verona, Italy
4 dic 2019
Slides: https://marcorospocher.com/files/slides/2019DIuniVR_slides.pdf
- Improving NLP Entity Annotations via Ontological Knowledge
SCC Seminar Series (FBK) - Trento, Italy
15 nov 2018
Slides: https://marcorospocher.com/files/slides/2018scc_slides.pdf
- Learning Expressive Ontological Concept Descriptions via Neural Networks
Invited Keynote at the 4th Workshop on Semantic Deep Learning SemDeep-4 - Monterey, California, US
4 ott 2018
Slides: https://marcorospocher.com/files/slides/2018semdeep4_slides.pdf
- KnowledgeStore
NewsReader Workshop - Amsterdam Public Library, Amsterdam, Netherlands
21 nov 2015
Slides: https://marcorospocher.com/files/slides/2015nwr_slides.pdf
- An Ontological Framework for Decision Support
Ontology Summit Track C session on Decision Making in Different Domains - Virtual Meeting
19 mar 2015
Slides: https://marcorospocher.com/files/slides/2015ontosum_slides.pdf
- Dati e Ricerca
Beni comuni digitali: una risorsa per il territorio, le istituzioni e i cittadini di oggi e domani -

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

2.5.2 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://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
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://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
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

2.5.3 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

2.5.4 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://marcorospocher.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://marcorospocher.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://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
24 nov 2014 - 28 nov 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
8 ott 2012 - 12 ott 2012
Poster: https://marcorospocher.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://marcorospocher.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://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
29 set 2008 - 3 ott 2008
Poster: https://marcorospocher.com/files/posters/2008ekaw_poster.pdf

2.6 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

2.7 Progetti di Ricerca

2.7.1 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

2.7.2 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 Informatica 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: <https://dh.dlss.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

2.8 Risorse

2.8.1 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: <https://pikes.fbk.eu/psl4ea.html>
Video: http://videlectures.net/iswc2018_rospoche_ontology_driven_soft/
- **J PARK: 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: <https://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: <https://pikes.fbk.eu/ke4ir.html>
Video: http://videlectures.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: <https://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: <https://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: <https://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>

2.8.2 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/>

2.8.3 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>

2.8.4 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/>

2.8.5 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/rospoche/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 (VTREL)**
VTREL, derivato dal dataset Flickr30k-Entities, è costituito da documenti composti da un'immagine e le corrispondenti didascalie. Le menzioni visuali e testuali di ciascuna immagine e didascalia sono annotate e allineate a entità tipate secondo con le classi di YAGO
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>

2.9 Servizi Professionali

2.9.1 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>

2.9.2 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.sciencedirect.com/journal/information-processing-and-management>
- Information Systems (IS)
Sito web: <https://www.sciencedirect.com/journal/information-systems>
- International Journal of Semantic Computing (IJSC)
Sito web: <https://www.worldscientific.com/worldscinet/ijsc>
- International Journal of Software Engineering and Knowledge Engineering (IJSEKE)
Sito web: <https://www.worldscientific.com/worldscinet/ijseke>
- Journal of Data Semantics (JDS)
Sito web: <https://link.springer.com/journal/13740/volumes-and-issues>
- Journal of Information Science (JIS)
Sito web: <https://journals.sagepub.com/home/jis>
- Journal of Web Semantics (JWS)
Sito web: <https://www.sciencedirect.com/journal/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: <https://www.semantic-web-journal.net/>
- Umanistica Digitale (UD)
Sito web: <https://umanisticadigitale.unibo.it/>

2.9.3 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
<https://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
<https://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
<https://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
<https://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
<https://ceur-ws.org/Vol-1272/>

2.9.4 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, 2023
 - 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 of the Italian Association for Artificial Intelligence (AIxIA): 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

2.10 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 Informatica (Università degli Studi di Verona)
dal: 1 apr 2023
Cicli Dottorato: 39
- Collegio dei Docenti del Dottorato in Lingue e Letterature Straniere (Università degli Studi di Verona)
1 ott 2021 - 31 mar 2023
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 Linguistics, Università degli Studi di Verona:
Samaneh Eksir (2023)
- 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)