

# Curriculum Vitae

Marco Rospoche

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## 1 General Information

### 1.1 Personal Data

FAMILY NAME: Rospoche

FIRST NAME: Marco

NATIONALITY: Italian

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

BUILDING: Palazzo di Lingue, Floor 1, Room 1.12

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

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

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

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

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

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

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

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

### 1.2 Education

- Ph.D. in Information and Communication Technologies  
ICT School, University of Trento, Italy  
Mar 31, 2006  
Thesis: On the computational complexity of enumerating certificates of NP problems  
Advisor: Prof. Romeo Rizzi  
Manuscript: <https://marcorospoche.com/files/phd/2006phd.pdf>
- M.Sc. (Laurea) degree in Mathematics  
University of Trento, Italy  
Mar 27, 2002  
Thesis: All-Pairs and Matching-like Shortest Paths Algorithms  
Advisor: Prof. Romeo Rizzi  
Final Score: 110/110 cum Laude  
Notes: Degree obtained within the legal length period (4 years) of the programme

### 1.3 National Scientific Qualification

- National Scientific Qualification to function as associate professor in Italian Universities for sector 01/B1 (Informatica / Informatics)  
Dec 5, 2017  
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/2/3>
- National Scientific Qualification to function as associate professor in Italian Universities for sector 09/H1 (Sistemi di Elaborazione Delle Informazioni / Information Processing Systems)  
Dec 5, 2017  
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/2/3>

### 1.4 Current Position

Associate Professor of Informatics (INF/01) at the University of Verona, within the Department of Foreign Languages and Literatures  
since: Dec 28, 2018

### 1.5 Past Work and Research Experiences

#### 1.5.1 Past Work and Research Experiences

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

#### 1.5.2 Research Grants

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

#### 1.5.3 PhD Scholarship

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

## 2 Research Activities and Related Titles

### 2.1 Research Interests

Artificial Intelligence, Information Extraction, Semantic Web, Knowledge Representation and Reasoning, Natural Language Processing, Digital Humanities, Machine/Deep Learning, Methodologies and Tools for Collaborative Knowledge Acquisition, Computational Complexity, Algorithmic Graph Theory, Combinatorial Optimization

## 2.2 Appointments

- Director of the interdisciplinary research center "Digital Arena for Inclusive Humanities (DAIH)". DAIH is a center of excellence in the field of digital technologies and computational analysis applied to languages and literature, and aims to promote and facilitate inclusion in research, infrastructure, training, and dissemination of scientific content in order to overcome the disparities, inequalities, and discriminations of modern society  
Web-site: <https://www.dlls.univr.it/?ent=bibliocr&id=362&tipobc=6>  
since: Feb 15, 2023

## 2.3 Awards

- Best Research Paper Award at the IEEE 18th International Enterprise Distributed Object Computing Conference EDOC2014 (September 1-5, 2014 - Ulm, Germany) for the contribution "The Role of Semantic Annotations in Business Process Modelling" (Chiara Di Francescomarino, Marco Rospocher, Chiara Ghidini, Andrea Valerio)  
Certificate: <https://marcorospocher.com/files/awards/2014edoc.pdf>
- Runner-up Prize at the Ontology Competition of the 8th International Conference on Formal Ontology in Information Systems FOIS2014 (September 22-26, 2014 - Rio de Janeiro, Brasil) for the contribution "An ontology for personalized environmental decision support" (Marco Rospocher)  
Certificate: <https://marcorospocher.com/files/awards/2014fois.pdf>
- Semantic Sentiment Analysis Award (Task 3 - Frame entities Identification) at the Semantic Web Evaluation of the 12th European Semantic Web Conference ESWC2015 (May 31-June 4, 2015 - Portoroz, Slovenia) for the contribution "Opinion frame extraction from news corpus" (Francesco Corcoglioniti, Alessio Palmero Aprosio, Marco Rospocher)  
Certificate: <https://marcorospocher.com/files/awards/2015eswcca.pdf>
- Honorable Mention Award at the In-Use Track of the 7th International Semantic Web Conference ISWC2008 (October 26-30, 2008 - Karlsruhe, Germany) for the contribution "Deploying semantic web technologies for work integrated learning in industry. A comparison: SME vs. large sized company" (Conny Christl, Chiara Ghidini, Joanna Guss, Viktoria Pammer, Stefanie Lindstaedt, Marco Rospocher, Peter Scheir, Luciano Serafini)  
Info: <https://marcorospocher.com/files/awards/2008iswc.pdf>
- Distinguished Program Committee Member at the 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018)  
Info: <https://www.ijcai-18.org/distinguished-members/>

## 2.4 Publications

### 2.4.1 Bibliometrics Indicators

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

- Citations: 1046
- H-index: 17
- H-index (excl. self-citation): 16

#### 2.4.2 Journals

28. Marco Bombieri, **Marco Rospoher**, Simone Paolo Ponzetto, and Paolo Fiorini. The Robotic-Surgery Propositional Bank. *Language Resources and Evaluation* (to appear)
27. **Marco Rospoher**. 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 Rospoher** 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 Rospoher**, 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 Rospoher**. On exploiting transformers for detecting explicit song lyrics. *Entertainment Computing*, vol. 43:100508. ISSN: 1875-9521 (2022)  
DOI: 10.1016/j.entcom.2022.100508  
Scopus: 2-s2.0-85132214046  
WoS: WOS:000822791600001  
URL: <https://www.sciencedirect.com/science/article/pii/S1875952122000325>
23. Shahi Dost, Luciano Serafini, **Marco Rospoher**, Lamberto Ballan, and Alessandro Sperduti. Aligning and linking entity mentions in image, text, and knowledge base. *Data & Knowledge Engineering*. ISSN: 0169-023X (2022)  
DOI: 10.1016/j.datak.2021.101975  
Scopus: 2-s2.0-85123608690  
WoS: WOS:000791242800002  
URL: <https://www.sciencedirect.com/science/article/pii/S0169023X2100094X>
22. Matteo Lorenzini, **Marco Rospoher**, and Sara Tonelli. Automatically evaluating the quality of textual descriptions in cultural heritage records. *International Journal on Digital Libraries*, vol. 22(2):217–231. ISBN: 1432-1300 (2021)  
DOI: 10.1007/s00799-021-00302-1

Scopus: 2-s2.0-85105217980  
WoS: WOS:000642397400001  
URL: <https://doi.org/10.1007/s00799-021-00302-1>

21. Marco Bombieri, **Marco Rospoche**r, 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 Rospoche**r. 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 Rospoche**r, 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](https://academic.oup.com/dsh/article-pdf/36/Supplement_2/ii182/41091126/fqab036.pdf)
18. **Marco Rospoche**r 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 Rospoche**r, 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 Rospoche**r, 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 Rospoche**r, 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

Scopus: 2-s2.0-85057966885

WoS: WOS:000482894600007

URL: <https://link.springer.com/article/10.1007/s10579-018-9437-8>

14. Giulio Petrucci, **Marco Rospoche**r, 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 Rospoche**r, 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 Rospoche**r, 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 Rospoche**r, 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 Rospoche**r, 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 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

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](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/A0-2012-0114  
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 Book Chapters

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](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](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](https://link.springer.com/chapter/10.1007/978-3-642-03262-2_4)

#### 2.4.4 Conferences

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](https://link.springer.com/chapter/10.1007%2F978-3-030-51310-8_24)

49. Shahi Dost, Luciano Serafini, **Marco Rospoher**, 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  
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#### 2.4.6 Edited Works

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## 2.5 Presentations

### 2.5.1 Invited Talks / Seminars

- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge  
NLP seminar series at Dublin City University / ADAPT Centre - Dublin, Ireland  
Feb 13, 2023  
Slides: [https://marcorospocher.com/files/slides/2023adapt\\_slides.pdf](https://marcorospocher.com/files/slides/2023adapt_slides.pdf)
- Knowledge representation and reasoning with ontologies  
Commonsense Reasoning in Surgical Robotics (COSER) summer school - Verona, Italy  
May 3, 2022  
Slides: [https://marcorospocher.com/files/slides/2022coser\\_slides.pdf](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  
Jan 22, 2021  
Slides: [https://marcorospocher.com/files/slides/2021mtl\\_slides.pdf](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  
Dec 4, 2019  
Slides: [https://marcorospocher.com/files/slides/2019DIuniVR\\_slides.pdf](https://marcorospocher.com/files/slides/2019DIuniVR_slides.pdf)
- Improving NLP Entity Annotations via Ontological Knowledge  
SCC Seminar Series (FBK) - Trento, Italy  
Nov 15, 2018  
Slides: [https://marcorospocher.com/files/slides/2018scc\\_slides.pdf](https://marcorospocher.com/files/slides/2018scc_slides.pdf)
- Learning Expressive Ontological Concept Descriptions via Neural Networks  
Invited Keynote at the 4th Workshop on Semantic Deep Learning SemDeep-4 - Monterey, California, US  
Oct 4, 2018  
Slides: [https://marcorospocher.com/files/slides/2018semdeep4\\_slides.pdf](https://marcorospocher.com/files/slides/2018semdeep4_slides.pdf)
- KnowledgeStore  
NewsReader Workshop - Amsterdam Public Library, Amsterdam, Netherlands  
Nov 21, 2015  
Slides: [https://marcorospocher.com/files/slides/2015nwr\\_slides.pdf](https://marcorospocher.com/files/slides/2015nwr_slides.pdf)
- An Ontological Framework for Decision Support  
Ontology Summit Track C session on Decision Making in Different Domains - Virtual Meeting  
Mar 19, 2015  
Slides: [https://marcorospocher.com/files/slides/2015ontosum\\_slides.pdf](https://marcorospocher.com/files/slides/2015ontosum_slides.pdf)
- Dati e Ricerca  
Beni comuni digitali: una risorsa per il territorio, le istituzioni e i cittadini di oggi e domani -

Riva del Garda, Italy

Mar 18, 2015

Slides: [https://marcorospoche.com/files/slides/2015dati\\_slides.pdf](https://marcorospoche.com/files/slides/2015dati_slides.pdf)

- KnowledgeStore  
Workshop on Deep and Large-Scale Semantic Processing: The Way Ahead - Trento, Italy  
Mar 10, 2015  
Slides: [https://marcorospoche.com/files/slides/2015jpn\\_slides.pdf](https://marcorospoche.com/files/slides/2015jpn_slides.pdf)
- Semantic Management in PESCaDO  
PESCaDO Final Event - UPF, Barcelona, Spain  
Feb 14, 2012  
Slides: [https://marcorospoche.com/files/slides/2012pescado\\_slides.pdf](https://marcorospoche.com/files/slides/2012pescado_slides.pdf)
- Collaborative modeling of processes and ontologies  
BMIR Research Colloquium - Stanford University, Palo Alto, US  
Sep 22, 2011  
Slides: [https://marcorospoche.com/files/slides/2011bmir\\_slides.pdf](https://marcorospoche.com/files/slides/2011bmir_slides.pdf)
- Collaborative modeling of processes and ontologies  
DERI Open Day - Digital Enterprise Research Institute, Galway, Ireland  
Apr 7, 2011  
Slides: [https://marcorospoche.com/files/slides/2011deri\\_slides.pdf](https://marcorospoche.com/files/slides/2011deri_slides.pdf)
- MoKi and the ProDe project  
ICT Days - University of Trento, Trento, Italy  
Mar 16, 2011  
Slides: [https://marcorospoche.com/files/slides/2011ict\\_slides.pdf](https://marcorospoche.com/files/slides/2011ict_slides.pdf)
- MoKi: the Modelling Wiki  
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- Organic Agriculture and MoKi  
Organic.Edunet Ontology Workshop Meeting - FAO, Rome, Italy  
Oct 6, 2009
- Modelling in APOSDLE  
ACTIVE EU Project Meeting - STI, Innsbruck, Austria  
Jan 27, 2009  
Slides: [https://marcorospoche.com/files/slides/2009active\\_slides.pdf](https://marcorospoche.com/files/slides/2009active_slides.pdf)
- On the Computational Complexity of Listing Certificates of NP problems  
ITC Seminars - Istituto Trentino di Cultura, Trento, Italy  
Oct 18, 2006  
Slides: [https://marcorospoche.com/files/slides/2006itc\\_slides.pdf](https://marcorospoche.com/files/slides/2006itc_slides.pdf)

### 2.5.2 Conference Talks

- La Traduzione di Schede Terminologiche in Banche Dati di Tipo Rete Lessicale: il caso DIACOM-Fr  
XXXI Convegno Associazione Italiana per la Terminologia - Verona, Italy  
Dec 10, 2021



- Ontologie e locuzioni: modellizzazione di termini complessi nell'ambito del progetto DIACOM  
XXX Convegno Associazione Italiana per la Terminologia - Bolzano, Italia  
Oct 15, 2020 - Oct 16, 2020
- An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations  
17th International Semantic Web Conference, ISWC 2018 - Monterey, CA, USA  
Oct 8, 2018 - Oct 12, 2018  
Slides: [https://marcorospoche.com/files/slides/2018iswc\\_research\\_slides.pdf](https://marcorospoche.com/files/slides/2018iswc_research_slides.pdf)  
Video: [http://videlectures.net/iswc2018\\_rospoche\\_ontology\\_driven\\_soft/](http://videlectures.net/iswc2018_rospoche_ontology_driven_soft/)
- Joint Posterior Revision of NLP Annotations via Ontological Knowledge  
27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence, IJCAI-ECAI 2018 - Stockholm, Sweden  
Jul 13, 2018 - Jul 19, 2018  
Slides: [https://marcorospoche.com/files/slides/2018ijcai\\_slides.pdf](https://marcorospoche.com/files/slides/2018ijcai_slides.pdf)
- Knowledge Extraction for Information Retrieval  
12th Extended Semantic Web Conference, ESWC 2016 - Heraklion, Crete, Greece  
May 29, 2016 - Jun 2, 2016  
Slides: [https://marcorospoche.com/files/slides/2016eswc\\_slides.pdf](https://marcorospoche.com/files/slides/2016eswc_slides.pdf)  
Video: [http://videlectures.net/eswc2016\\_rospoche\\_information\\_retrieval/](http://videlectures.net/eswc2016_rospoche_information_retrieval/)
- Processing Billions of RDF Triples on a Single Machine using Streaming and Sorting  
30th Annual ACM Symposium on Applied Computing, ACM-SAC2015 - Salamanca, Spain  
Apr 13, 2015 - Apr 17, 2015  
Slides: [https://marcorospoche.com/files/slides/2015sac\\_slides.pdf](https://marcorospoche.com/files/slides/2015sac_slides.pdf)
- On the Collaborative Development of Application Ontologies: A Practical Case Study with a SME  
19th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014 - Linköping, Sweden  
Nov 24, 2014 - Nov 28, 2014  
Slides: [https://marcorospoche.com/files/slides/2014ksem\\_slides.pdf](https://marcorospoche.com/files/slides/2014ksem_slides.pdf)
- Investigating Collaboration Dynamics in Different Ontology Development Environments  
7th International Conference on Knowledge Science, Engineering and Management, KSEM 2014 - Sibiu, Romania  
Oct 16, 2014 - Oct 18, 2014  
Slides: [https://marcorospoche.com/files/slides/2014ksem\\_slides.pdf](https://marcorospoche.com/files/slides/2014ksem_slides.pdf)
- An ontology for the Business Process Modelling Notation  
8th International Conference on Formal Ontologies and Information Systems, FOIS2014 - Rio de Janeiro, Brazil  
Sep 22, 2014 - Sep 25, 2014  
Slides: [https://marcorospoche.com/files/slides/2014foisbpmn\\_slides.pdf](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  
Sep 22, 2014 - Sep 25, 2014  
Slides: [https://marcorospoche.com/files/slides/2014foispescado\\_slides.pdf](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

Sep 16, 2013 - Sep 18, 2013

Slides: [https://marcorospoche.com/files/slides/2013icsc\\_slides.pdf](https://marcorospoche.com/files/slides/2013icsc_slides.pdf)

- An Ontological Framework for Decision Support  
2nd Joint International Semantic Technology Conference, JIST2012 - Nara, Japan  
Dec 2, 2012 - Dec 4, 2012  
Slides: [https://marcorospoche.com/files/slides/2012jist\\_slides.pdf](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  
Oct 8, 2012 - Oct 12, 2012  
Slides: [https://marcorospoche.com/files/slides/2012ekaw\\_slides.pdf](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  
Jan 30, 2012 - Feb 4, 2012  
Slides: [https://marcorospoche.com/files/slides/2012eknow\\_slides.pdf](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  
Sep 18, 2011 - Sep 21, 2011  
Slides: [https://marcorospoche.com/files/slides/2011icsc\\_slides.pdf](https://marcorospoche.com/files/slides/2011icsc_slides.pdf)
- Reasoning on Semantically Annotated Processes  
6th International Conference on Service-Oriented Computing, ICSOC2008 - Sydney, Australia  
Dec 1, 2008 - Dec 5, 2008  
Slides: [https://marcorospoche.com/files/slides/2008icsoc\\_slides.pdf](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  
Sep 3, 2008 - Sep 5, 2008  
Slides: [https://marcorospoche.com/files/slides/2008isemantics\\_slides.pdf](https://marcorospoche.com/files/slides/2008isemantics_slides.pdf)

### 2.5.3 Workshop Talks

- A Simple API to the KnowledgeStore  
Developers Workshop at the 13th Int. Semantic Web Conference (ISWC'14) - Riva del Garda, Italy  
Oct 19, 2014  
Slides: [https://marcorospoche.com/files/slides/2014iswcSemDev02\\_slides.pdf](https://marcorospoche.com/files/slides/2014iswcSemDev02_slides.pdf)
- MoKi: the Modelling wiKi  
SemWiki2009 - Fourth Workshop on Semantic Wikis - Heraklion, Crete, Greece  
Jun 1, 2009  
Slides: [https://marcorospoche.com/files/slides/2009semwiki\\_slides.pdf](https://marcorospoche.com/files/slides/2009semwiki_slides.pdf)

### 2.5.4 Demo and Poster Presentations

- Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning  
32nd Annual ACM Symposium on Applied Computing, ACM-SAC2017 - Marrakesh, Morocco

Apr 3, 2017 - Apr 7, 2017

Poster: [https://marcorospoche.com/files/posters/2017sac\\_poster.pdf](https://marcorospoche.com/files/posters/2017sac_poster.pdf)

- Demonstrating the Power of Streaming and Sorting for Non-distributed RDF Processing: RDF-pro  
ISWC 2015 Posters & Demonstrations Track - Bethlehem, USA  
Oct 11, 2015 - Oct 15, 2015  
Poster: [https://marcorospoche.com/files/posters/2015iswcdemo2\\_poster.pdf](https://marcorospoche.com/files/posters/2015iswcdemo2_poster.pdf)
- Extracting Knowledge from Text with PIKES  
ISWC 2015 Posters & Demonstrations Track - Bethlehem, USA  
Oct 11, 2015 - Oct 15, 2015  
Poster: [https://marcorospoche.com/files/posters/2015iswcdemo1\\_poster.pdf](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  
Nov 24, 2014 - Nov 28, 2014  
Poster: [https://marcorospoche.com/files/posters/2014ekawdemo\\_poster.pdf](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  
Oct 8, 2012 - Oct 12, 2012  
Poster: [https://marcorospoche.com/files/posters/2012ekawdemo\\_poster.pdf](https://marcorospoche.com/files/posters/2012ekawdemo_poster.pdf)
- MoKi: a Wiki-Based Conceptual Modeling Tool  
EKAW2010 Poster and Demo Track - Lisbon, Portugal  
Oct 11, 2010 - Oct 15, 2010  
Poster: [https://marcorospoche.com/files/posters/2010ekawdemo\\_2\\_poster.pdf](https://marcorospoche.com/files/posters/2010ekawdemo_2_poster.pdf)
- MoKi: The Enterprise Modelling Wiki  
6th European Semantic Web Conference, ESWC 2009 - Heraklion, Crete, Greece  
May 31, 2009 - Jun 4, 2009  
Poster: [https://marcorospoche.com/files/posters/2009eswcdemo\\_poster.pdf](https://marcorospoche.com/files/posters/2009eswcdemo_poster.pdf)
- Collaborative Knowledge Engineering via Semantic MediaWiki  
16th International Conference on Knowledge Engineering and Knowledge Management Knowledge Patterns, EKAW2008 - Aci Trezza, Italy  
Sep 29, 2008 - Oct 3, 2008  
Poster: [https://marcorospoche.com/files/posters/2008ekaw\\_poster.pdf](https://marcorospoche.com/files/posters/2008ekaw_poster.pdf)

## 2.6 Abroad Research Stays

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

Host: Prof. Pablo Moscato

Research Topic: Development of combinatorial optimization algorithms for computational biology

## **2.7 Research Projects**

### **2.7.1 Acquisitions of Research Projects**

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

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)  
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere  
Jan 1, 2023 - Dec 31, 2027  
For: Università degli Studi di Verona  
Funding: 6,566,335 Euro
- NewsReader (EU FP7 Strep Project, Grant 316404)  
Building structured event indexes of large volumes of financial and economic data for decision making  
Jan 1, 2013 - Dec 31, 2015  
For: Fondazione Bruno Kessler (FBK)  
Funding: 745,000 Euro
- ePlanning (Progetto Di Ricerca Applicata, Finanziato dalla Provincia di Trento ai sensi della L.P. 13.12.1999, n. 6, art. 5)  
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali  
Jan 1, 2012 - Dec 31, 2013  
For: Fondazione Bruno Kessler (FBK)  
Funding: 114,000 Euro
- Organic.Lingua (EU FP7 ICP Project, Grant 270999)  
Demonstrating the potential of a multilingual Web portal for Sustainable Agricultural & Environmental Education  
Mar 1, 2011 - Feb 28, 2014  
For: Fondazione Bruno Kessler (FBK)  
Funding: 225,000 Euro

### **2.7.2 Coordination and Participations in Research Projects**

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)  
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere  
Jan 1, 2023 - Dec 31, 2027  
For: Università degli Studi di Verona  
Role: Team Leader of Infrastructures, Director of DAIH center, Coordination of the research activities on Computer Science and Inclusion
- NexusLinguarum (COST Action, CA18209)  
European network for Web-centred linguistic data science  
Jan 1, 2019 - Dec 31, 2023  
Web-site: <https://nexuslinguarum.eu/>  
Role: Member of Working Groups WG1 & WG2

- Le Digital Humanities applicate alle lingue e letterature straniere (MIUR Dipartimenti di Eccellenza)  
Jan 1, 2018 - Dec 31, 2022  
Web-site: <https://dh.dlss.univr.it/>  
For: Università degli Studi di Verona  
Role: Team Leader of Infrastructures (Spazi e Piattaforme Digitali)
- NewsReader (EU FP7 Strep Project, Grant 316404)  
Building structured event indexes of large volumes of financial and economic data for decision making  
Jan 1, 2013 - Dec 31, 2015  
Web-site: [https://cordis.europa.eu/project/rcn/106026\\_en.html](https://cordis.europa.eu/project/rcn/106026_en.html)  
For: Fondazione Bruno Kessler (FBK)  
Role: Project Leader for FBK (FBK personnel involved: 13); Work Package 6 Leader; full coordination of the activities (admin, research, development) of the FBK Data and Knowledge Management research unit; principal investigator of the research and development activities on the KnowledgeStore
- ePlanning (Progetto Di Ricerca Applicata, Finanziato dalla Provincia di Trento ai sensi della L.P. 13.12.1999, n. 6, art. 5)  
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali  
Jan 1, 2012 - Dec 31, 2013  
For: Fondazione Bruno Kessler (FBK)  
Role: Project Leader for FBK (FBK personnel involved: 6); full coordination of the activities (admin, research, development) of the FBK Data and Knowledge Management research unit
- PESCaDO (EU FP7 Strep Project, Grant 248594)  
Personalized Environmental Service Configuration and Delivery Orchestration  
Jan 1, 2010 - Dec 31, 2012  
Web-site: [https://cordis.europa.eu/project/rcn/93834\\_en.html](https://cordis.europa.eu/project/rcn/93834_en.html)  
For: Fondazione Bruno Kessler (FBK)  
Role: Project Leader for FBK (FBK personnel involved: 5); Work Package 5 Leader; full coordination of the activities (admin, research, development) of the FBK Data and Knowledge Management research unit; principal investigator of the research and development activities on semantic technologies (ontology and reasoning)
- APOSDLE (EU FP6 IP Project, Grant 027023)  
Advanced process-oriented self-directed learning environment  
Mar 1, 2006 - Feb 28, 2010  
Web-site: [https://cordis.europa.eu/project/rcn/80574\\_en.html](https://cordis.europa.eu/project/rcn/80574_en.html)  
For: Fondazione Bruno Kessler (FBK)  
Role: Task-level coordination activities; Participation to the research and development activities

## 2.8 Resources

### 2.8.1 Tools

- Explicit Lyrics Detectors  
A suite of classifiers (e.g., Logistic Regression, FastText, 1D-CNN, BERT) to automatically assess whether the lyrics of songs contain explicit content. Besides the Python code for training and evaluating the classifiers, pre-trained, ready-to-use models are made available, both for

English and Italian

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

- **PSL4EA: Probabilistic Soft Logic for Entity Annotation**  
An ontological knowledge powered approach based on Probabilistic Soft Logic for jointly revising multiple NLP entity annotations  
Web-site: <https://pikes.fbk.eu/psl4ea.html>  
Video: [http://videlectures.net/iswc2018\\_rospoche\\_ontology\\_driven\\_soft/](http://videlectures.net/iswc2018_rospoche_ontology_driven_soft/)
- **JPark: Joint Posterior Revision of NLP Annotations via Ontological Knowledge**  
A probabilistic model leveraging ontological knowledge for improving the coherence and revise NLP entity annotations  
Web-site: <https://pikes.fbk.eu/jpark.html>
- **KE4IR: Knowledge Extraction for Information Retrieval**  
An approach that improves the performances of the traditional term-based similarity solution for document retrieval by performing a semantic analysis and enrichment (via PIKES) of the query and the documents  
Web-site: <https://pikes.fbk.eu/ke4ir.html>  
Video: [http://videlectures.net/eswc2016\\_rospoche\\_information\\_retrieval/](http://videlectures.net/eswc2016_rospoche_information_retrieval/)
- **PIKES: A Suite for Extracting Knowledge from Text**  
A framework for extracting knowledge graphs from natural language text  
Web-site: <https://pikes.fbk.eu/>  
Video: <https://www.youtube.com/embed/D0mcnUKc3sg>
- **KnowledgeStore: Scalable storage for text and RDF data**  
A scalable, fault-tolerant, and Semantic Web grounded storage system to jointly store, manage, retrieve, and semantically query, both structured and unstructured content  
Web-site: <https://knowledgestore.fbk.eu>  
Video: <https://www.youtube.com/embed/YVOQaljLta4>
- **RDFpro: An Extensible Tool for Building Stream-Oriented RDF Processing Pipelines**  
A public domain, Java command line tool and library for RDF processing  
Web-site: <https://rdfpro.fbk.eu>  
Video: <https://www.youtube.com/embed/Vd2FCVRL8fk>
- **MoKi: The modelling wiki**  
A collaborative tool that supports the creation of articulated enterprise models (ontologies and business processes) through structured wiki pages
- **TeX-OWL: A Latex-Style Syntax for authoring OWL 2 ontologies**  
A new latex-style syntax that can be used to write OWL 2 ontologies  
Web-site: <https://github.com/dkmfbk/TeXOwl>

### 2.8.2 Ontologies

- **PreMON: Predicate Model for Ontologies**  
A linguistic Linked Data resource representing predicate models such as PropBank, NomBank, VerbNet and FrameNet  
Web-site: <https://premon.fbk.eu/>
- **The Event and Situation Ontology (ESO)**  
A resource which formalizes the pre and post conditions of events and the roles of the entities

affected by an event

Web-site: <https://github.com/newsreader/eso/>

- The PESCaDO Ontology

A modular OWL ontology capable of representing all the content processed and produced by a system providing user-tailored environmental decision support

Web-site: <https://marcorospoche.com/backup-resources/pescado/>

- The BPMN Ontology

A formalization in OWL-DL of the structural components of the Business Process Modelling Notation (BPMN), based on the OMG BPMN specifications Version 1.1 [January 2008]

Web-site: <https://marcorospoche.com/backup-resources/bpmn/>

### 2.8.3 Language Models

- SurgicBERTa

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

Web-site: <https://huggingface.co/marcobombieri/surgicberta>

### 2.8.4 Linguistic Resources

- Robotic Surgery Propositional Bank (RSPB)

The Robotic-Surgery Propositional Bank is the first robotic-surgery procedural corpus, annotated with PropBank-style semantic labels. Starting from the original PropBank framebank, we enriched it by adding new lemmas, frames and semantic roles required to cover missing information in general English but needed in procedural surgical language, releasing the Robotic-Surgery Procedural Framebank (RSPF). We then collected from robotic-surgery textbooks as-is sentences for a total of 32,448 tokens, and we annotated them with RSPF labels. We so obtained and publicly released the first annotated corpus of the robotic-surgical domain that can be used to foster further research on language understanding and procedural entities and relations extraction from clinical and surgical scientific literature

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

### 2.8.5 Datasets

- Explicit lyrics datasets

Two annotated datasets, one for English lyrics (807K songs) and one for Italian lyrics (37K songs), built starting from Spotify and LyricWiki content, to support the training and evaluation of automatic tools for detecting explicit song lyrics, i.e., lyrics whose content is unsuitable for children. An additional dataset (4K songs) is manually annotated with fine-grained explicitness information, i.e., why the song lyrics are marked as explicit (e.g., strong language, sexual reference)

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

- Surgical Procedural Knowledge Sentences (SPKS)

SPKS is a textual dataset for the surgical robotic field consisting of 1958 sentences (37022 words and 3999 unique words) manually annotated as procedural and non-procedural by an expert

annotator

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

- Visual-Textual-Knowledge Entity Linking (VTKEL)  
VTKEL, derived from Flickr30k-Entities dataset, consists of documents composed of a picture and five corresponding descriptions captioning it. Visual and textual mentions of each picture and captions are annotated and aligned to entities typed with classes from YAGO  
Web-site: <https://doi.org/10.6084/m9.figshare.7882781.v6>
- Annotated dataset to assess the accuracy of the textual description of cultural heritage records  
The dataset contains more than 100K textual descriptions of cultural items from Cultura Italia, the Italian National Cultural aggregator. Each of the description is labeled either HIGH or LOW quality, according its adherence to the standard cataloguing guidelines provided by Istituto Centrale per il Catalogo e la Documentazione (ICCD)  
Web-site: <https://doi.org/10.6084/m9.figshare.13359104.v1>

## 2.9 Professional Services

### 2.9.1 Journal Editorial Boards

- Member of the Editorial Board of Information Processing & Management (Elsevier Journal)  
since: Mar 2, 2020  
<https://www.journals.elsevier.com/information-processing-and-management/editorial-board>
- Guest Co-editor of the Special Issue "Knowledge and Language Processing" of Information Processing & Management (Elsevier Journal)  
The selected articles are published in Volume 57, Issue 6, November 2020 of the journal  
<https://www.sciencedirect.com/journal/information-processing-and-management/vol/57/issue/6>
- Guest Co-editor of the Special Issue "Applied Cognitive Computing: Challenges, Approaches, and Real-World Experiences" of Progress In Artificial Intelligence (Springer Journal)  
The selected articles are published in Volume 7, issue 4, December 2018 of the journal  
<https://link.springer.com/journal/13748/volumes-and-issues/7-4>

### 2.9.2 Journal Reviewing

- ACM Transactions on Intelligent Systems and Technology (ACM TIST)  
Web-site: <https://dl.acm.org/journal/tist>
- Applied Ontology (AO)  
Web-site: <https://www.iospress.com/catalog/journals/applied-ontology>
- Artificial Intelligence (AIJ)  
Web-site: <https://www.sciencedirect.com/journal/artificial-intelligence>
- IEEE Internet Computing (IEEE IC)  
Web-site: <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4236>
- Information Processing & Management (IP&M)  
Web-site: <https://www.sciencedirect.com/journal/information-processing-and-management>
- Information Systems (IS)  
Web-site: <https://www.sciencedirect.com/journal/information-systems>
- International Journal of Semantic Computing (IJSC)  
Web-site: <https://www.worldscientific.com/worldscinet/ijsc>



- International Journal of Software Engineering and Knowledge Engineering (IJSEKE)  
Web-site: <https://www.worldscientific.com/worldscinet/ijseke>
- Journal of Data Semantics (JDS)  
Web-site: <https://link.springer.com/journal/13740/volumes-and-issues>
- Journal of Information Science (JIS)  
Web-site: <https://journals.sagepub.com/home/jis>
- Journal of Web Semantics (JWS)  
Web-site: <https://www.sciencedirect.com/journal/journal-of-web-semantics>
- Natural Language Engineering (NLE)  
Web-site: <https://www.cambridge.org/core/journals/natural-language-engineering>
- PeerJ Computer Science  
Web-site: <https://peerj.com/computer-science/>
- Semantic Web Journal (SWJ)  
Web-site: <https://www.semantic-web-journal.net/>
- Umanistica Digitale (UD)  
Web-site: <https://umanisticadigitale.unibo.it/>

### 2.9.3 Conference / Workshop Organization

- Co-chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 38th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2023)  
Mar 27, 2023 - Mar 31, 2023  
Tallinn, Estonia  
<https://klp.fbk.eu>
- Co-chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 37th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2022)  
Apr 25, 2022 - Apr 29, 2022  
Brno, Czech Republic  
<https://doi.org/10.1145/3535434>
- Co-chair of the special track on Knowledge and Language Processing (KLP) at the 36th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2021)  
Mar 22, 2021 - Mar 26, 2021  
Gwangju, South Korea / Virtual  
<https://doi.org/10.1145/3462420>
- Co-chair of the special track on Knowledge and Language Processing (KLP) at the 35th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2020)  
Mar 30, 2020 - Apr 3, 2020  
Brno, Czech Republic / Virtual  
<https://doi.org/10.1145/3389659>
- Co-chair of the special track on Knowledge and Language Processing (KLP) at the 34th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2019)  
Apr 8, 2019 - Apr 12, 2019  
Limassol, Cyprus  
<https://doi.org/10.1145/3329375>

- Co-chair of Doctoral Consortium of the 17th International Conference of the Italian Association for Artificial Intelligence (AI\*IA 2018)  
Nov 20, 2018 - Nov 23, 2018  
Trento, Italy  
<https://ceur-ws.org/Vol-2249/>
- Co-chair of the special track on Cognitive Computing (CoCo) at the 33rd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2018)  
Apr 9, 2018 - Apr 13, 2018  
Pau, France  
<https://doi.org/10.1145/3258634>
- Co-chair of the special track on Cognitive Computing (CoCo) at the 32nd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2017)  
Mar 27, 2017 - Mar 31, 2017  
Marrakech, Morocco  
<https://doi.org/10.1145/3243944>
- Co-chair of the 4th International Workshop on Detection, Representation, and Exploitation of Events in the Semantic Web (DeRiVE 2015), co-located with ESWC2015  
May 31, 2015 - May 31, 2015  
Portoroz, Slovenia  
<https://ceur-ws.org/Vol-1363/>
- Co-Chair of the Posters and Demos track of the 13th International Semantic Web Conference (ISWC2014)  
Oct 19, 2014 - Oct 23, 2014  
Riva del Garda, Italy  
<https://ceur-ws.org/Vol-1272/>

#### **2.9.4 Conference / Workshop Program Committees**

- International Joint Conference on Artificial Intelligence (IJCAI): 2018, 2019, 2020
- AAAI Conference on Artificial Intelligence (AAAI): 2018, 2019, 2020, 2021, 2023
- The Web Conference (WWW) [formerly: International World Wide Web Conference]
  - Semantics and Knowledge (Research Track): 2019, 2020
  - Web Content Analysis, Semantics, and Knowledge (Research Track): 2018
  - Posters Track: 2016
- International Semantic Web Conference (ISWC)
  - Research Track: 2014, 2015, 2016, 2017, 2018, 2019 (SPC), 2020, 2021, 2022, 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 (AIMSA): 2012
- International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS): 2012
- Workshop on Context, Information And Ontologies (CIAO): 2010

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

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

## **3 Teaching Activities**

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

- Teaching Committee for the PhD Programme in Computer Science (University of Verona)  
since: Apr 1, 2023  
PhD Cycles: 39
- Teaching Committee for the PhD Programme in Foreign Languages and Literatures (University of Verona)  
Oct 1, 2021 - Mar 31, 2023  
PhD Cycles: 37, 38
- Teaching Committee for the PhD Programme in Foreign Languages, Literatures and Linguistics (University of Verona)  
Mar 15, 2019 - Sep 30, 2021  
PhD Cycles: 35, 36

### 3.2 Membership of Ph.D. Examination Committees

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

### 3.3 Supervision of Ph.D. Theses

- Marco Bombieri  
Automatic extraction of robotic surgery actions from text and kinematic data  
University of Verona  
since: Oct 1, 2019  
(with Paolo Fiorini)
- Roxane Segers  
Formalizing Events for Detecting Implicit Event Information in Natural Language Text  
Vrije Universiteit Amsterdam  
since: May 8, 2018  
(with Piek Vossen)
- Antonio Arnieri  
Sound and Identity in Shakespeare's Theatre  
University of Verona  
Jan 1, 2019 - Jul 15, 2022  
(with Susanna Zinato)
- Matteo Lorenzini  
Metadata Quality Evaluation in Cultural Heritage Domain  
University of Trento  
Nov 1, 2017 - Feb 15, 2022  
(with Sara Tonelli)
- Giulio Petrucci  
Learning to Learn Concept Descriptions  
University of Trento  
Nov 1, 2013 - Sep 21, 2018  
(with Chiara Ghidini)
- Francesco Corcoglioniti  
Frame-based Ontology Population from Text: Models, Systems and Applications  
University of Trento  
Nov 1, 2012 - Apr 21, 2016  
(with Luciano Serafini)

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

- Master's degree in Computer Science, University of Trento:  
Rakebul Hasan (2009), Nahid E Mahbub (2009), Md Kamrul Hasan (2009), Musawar Saeed

(2009), Matteo Matassoni (2014)

- LCT European Masters Program, University of Trento:  
Yiqing Liang (2017)
- Master's degree in Linguistics, University of Verona:  
Samaneh Eksir (2023)
- Master's degree in Languages for Communication in Tourism and Commerce, University of Verona:  
Beatrice Giacomazzi (2019), Francesca Tosato (2019), Silvia Cavazza Ceccato (2020), Michela Pecora (2020), Gaia Tacchini (2020), Irina Casian (2020), Erica Fattori (2020), Elisa Benedetti (2021)
- Bachelor's degree in Computer Science, University of Trento:  
Marco Spanò (2018)
- Bachelor's degree in Languages and Cultures for Publishing, University of Verona:  
Arianna Zanrossi (2020), Federica Pampalone (2020), Francesca Tirapelle (2020), Isabella Jaforte (2021), Martina Zanetti (2021), Ester Marchi (2021), Beatrice Vanoli (2021), Chiara Lazzari (2022), Daniela Xhupi (2022), Clarita Ferri (2022)
- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona:  
Rebecca Guolo (2022), Amedeo Onnis (2022)
- Bachelor's degree in Languages and Cultures for Tourism and International Commerce:  
Francesca Laganà (2020), Lukasz Kolasowski (2020), Sara Turrini (2021)

### **3.5 Supervision of Stages / Internship**

- post-Master Research Internships (FBK, Trento):  
Gianluca Maguolo (2018)
- LCT European Masters Program, University of Trento:  
Yiqing Liang (2017)
- Master's degree in Computer Science, University of Trento:  
Nahid E Mahbub (2009), Md Kamrul Hasan (2009)
- Bachelor's degree in Computer Science, University of Trento:  
Gianluca Apriceno (2015), Enrico Magnago (2015), Alessio Scussel (2016)
- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona:  
Jasmine Touarsa (2021), Marta Cafà (2021)

### **3.6 Institutional teaching appointments**

- Programme Director of the Bachelor's degree in Languages and Literatures for Publishing and Digital Media  
Oct 1, 2021 - Sep 30, 2022

### **3.7 Lectureship**

- Academic Year 2022-2023:

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

- Digital Humanities  
Hours: 36, CFU: 6, SSD: INF/01  
Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
- Natural Language Processing for analyzing written textual resources  
Hours: 4, CFU: 1  
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- Semantic Web and Linked Data technologies for the humanities  
Hours: 4, CFU: 1  
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- Working with Textual Files: Encodings and Regular Expressions  
Hours: 4, CFU: 1  
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- Academic Year 2019-2020:
  - Introduction to Digital Humanities  
Hours: 36, CFU: 6, SSD: INF/01  
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona, Italy
  - Digital Humanities  
Hours: 36, CFU: 6, SSD: INF/01  
Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
  - Electronic commerce  
Hours: 36, CFU: 6, SSD: INF/01  
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
  - A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research  
Hours: 12, CFU: 3  
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
  - The eXtensible Markup Language (XML) and the Textual Encoding Initiative (TEI): standards for text representation in the humanities  
Hours: 2, CFU: 0.5  
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- Academic Year 2018-2019:
  - Electronic commerce (A-L)  
Hours: 36, CFU: 6, SSD: INF/01  
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
  - Electronic commerce (M-Z)  
Hours: 36, CFU: 6, SSD: INF/01



Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy

- A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research

Hours: 12, CFU: 3

Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy

- Other Lectureship Activities:

- Language Resources and Ontologies (co-lecturer: Dr. Sara Tonelli) - Master Degree in Filosofia e linguaggi della modernità, University of Trento, Italy
- Lectures for course Language Resources and Ontologies, Master in Human Language Technology and Interface, University of Trento (2010-2011, 2011-2012)
- Lectures for the International Winter Camp on Language and Data/Knowledge, TrentoRise (2012)
- Lectures for course Computational Linguistics, M.Sc. in Cognitive Science, University of Trento (2012)
- Lectures for course Business Process Re-engineering, M.Sc. in Net Economics, University of Trento (2010, 2011)
- Lectures for course Computational Complexity, M.Sc. in Computer Science, University of Trento (2004, 2005)