Curriculum Vitae

Marco Rospocher

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1 Informazioni Generali

1.1 Dati Personali

COGNOME: Rospocher

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

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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/Rospocher:Marco

Orcid: https://orcid.org/0000-0001-9391-3201

GITHUB: https://github.com/rospocher

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://marcorospocher.com/files/phd/2006phd.pdf

• Laurea in Matematica

Università di Trento, Italia

 $27~\mathrm{mar}~2002$

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

Relatore: Prof. Romeo Rizzi Voto Finale: 110/110 cum Laude

Note: Titolo conseguito entro la durate 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 Occupazioni Precedenti

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

Borsa di Dottorato 1.5.3

• 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'Acquizione Collaborativa della Conoscenza, Complessità Computazionale, Teoria dei Grafi, Ottimizzazione Combinatorica

2.2Incarichi

• 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: 1967H-index: 25i10-Index: 51

• Scopus

Citazioni: 1064H-index: 17

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

2.4.2 Articoli su Rivista

30. Marco Bombieri, **Marco Rospocher**, Simone Paolo Ponzetto, and Paolo Fiorini. The Robotic-Surgery Propositional Bank. *Language Resources and Evaluation* (to appear)

DOI: 10.1007/s10579-023-09668-x

Scopus: 2-s2.0-85163063471 WoS: WOS:001004074300001

URL: https://link.springer.com/article/10.1007/s10579-023-09668-x

- 29. Marco Bombieri, **Marco Rospocher**, Simone Paolo Ponzetto, and Paolo Fiorini. SurgicBERTa: A pre-trained language model for procedural surgical language. *International Journal of Data Science and Analytics* (to appear)
- 28. Marco Bombieri, Daniele Meli, Diego Dall'Alba, **Marco Rospocher**, and Paolo Fiorini. Mapping natural language procedures descriptions to linear temporal logic templates An application in the surgical robotic domain. *Applied Intelligence* (to appear)
- 27. Marco Rospocher. 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 Rospocher 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 Rospocher**, 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.compbiomed.2022.106415

Scopus: 2-s2.0-85144338000 WoS: WOS:000900243500001

URL: https://www.sciencedirect.com/science/article/pii/S0010482522011234

24. Marco Rospocher. 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 Rospocher**, 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 Rospocher**, 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 Rospocher**, 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 Rospocher. 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 Rospocher**, and Sara Tonelli. On assessing metadata completeness in digital cultural heritage repositories. *Digital Scholarship in the Humanities*, vol. 36(Supplement 2):ii182-ii188. ISSN: 2055-7671 (2021)

DOI: 10.1093/11c/fqab036 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 Rospocher 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 Rospocher**, 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 Rospocher, 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 Rospocher, 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 Rospocher, 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 Rospocher, 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 Rospocher**, 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 Rospocher, 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 Rospocher**, 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 Rospocher, 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, Nadjet Bouayad-Agha, Gerard Casamayor, Thomas Ertl, Desiree Hilbring, Lasse Johansson, Kostas Karatzas, Ari Karppinen, Ioannis Kompatsiaris, Tarja Koskentalo, Simon Mille, Jürgen Moßgraber, Anastasia Moumtzidou, Maria Myllynen, Emanuele Pianta, Marco Rospocher, 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 Rospocher**, Stefanos Vrochidis, Lasse Johansson, Nadjet Bouayad-Agha, Gerard Casamayor, Ari Karppinen, Ioannis Kompatsiaris, Simon Mille, Anastasia Moumtzidou, 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 Rospocher. 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 Rospocher, 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 Rospocher**, 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 Rospocher, 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 Rospocher, 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 Rospocher. 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 Rospocher. 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 Rospocher, 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 Rospocher, 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 Rospocher. 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 Rospocher, 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

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2.5 Presentazioni

2.5.1 Presentazioni / Seminari su Invito

• chatGPT: avvertenze per l'uso

Il "caso ChatGPT" - Tra prospettive di sviluppo e di regolamentazione dell'IA. Un approccio multidisciplinare - Verona, Italy

21 giu 2023

Slides: https://marcorospocher.com/files/slides/2023chatGPT_slides.pdf

 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

News Reader Workshop - Amsterdam Public Library, Amsterdam, Netherlands
 $21~\mathrm{nov}~2015$

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://marcorospocher.com/files/slides/2015dati_slides.pdf

KnowledgeStore

Workshop on Deep and Large-Scale Semantic Processing: The Way Ahead - Trento, Italy $10~\mathrm{mar}~2015$

Slides: https://marcorospocher.com/files/slides/2015jpn slides.pdf

• Semantic Management in PESCaDO

PESCaDO Final Event - UPF, Barcelona, Spain

14 feb 2012

Slides: https://marcorospocher.com/files/slides/2012pescado_slides.pdf

Collaborative modeling of processes and ontologies

BMIR Research Colloquium - Stanford University, Palo Alto, US $22~{\rm set}~2011$

Slides: https://marcorospocher.com/files/slides/2011bmir_slides.pdf

• Collaborative modeling of processes and ontologies

DERI Open Day - Digital Enterprise Research Institute, Galway, Ireland 7 apr2011

Slides: https://marcorospocher.com/files/slides/2011deri_slides.pdf

• MoKi and the ProDe project

ICT Days - University of Trento, Trento, Italy

16 mar 2011

Slides: https://marcorospocher.com/files/slides/2011ict_slides.pdf

• MoKi: the Modelling Wiki

ILIKS Annual Meeting - Trento, Italy

18 dic 2009

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

• Organic Agricolture 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://marcorospocher.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://marcorospocher.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 $10~{\rm dic}~2021$

 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://marcorospocher.com/files/slides/2018iswc_research_slides.pdf Video: http://videolectures.net/iswc2018_rospocher_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

 $Slides: \ https://marcorospocher.com/files/slides/2018ijcai_slides.pdf$

Knowledge Extraction for Information Retrieval
 12th Extended Semantic Web Conference, ESWC 2016 - Heraklion, Crete, Greece
 29 mag 2016 - 2 giu 2016

Slides: https://marcorospocher.com/files/slides/2016eswc_slides.pdf Video: http://videolectures.net/eswc2016 rospocher 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://marcorospocher.com/files/slides/2015sac_slides.pdf

• On the Collaborative Development of Application Ontologies: A Practical Case Study with a SME

 $19\mathrm{th}$ International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014 - Linkoping, Sweden

24 nov 2014 - 28 nov 2014

Slides: https://marcorospocher.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://marcorospocher.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://marcorospocher.com/files/slides/2014foisbpmn_slides.pdf

• An ontology for personalized environmental decision support 8th International Conference on Formal Ontologies and Information Systems, FOIS2014 - Rio de Janeiro, Brazil

22 set 2014 - 25 set 2014

Slides: https://marcorospocher.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://marcorospocher.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://marcorospocher.com/files/slides/2012jist_slides.pdf

• Evaluating wiki-enhanced ontology authoring

 $18 {\rm th}$ International Conference on Knowledge Engineering and Knowledge Management, EKAW2012 - Galway, Ireland

8 ott 2012 - 12 ott 2012

Slides: https://marcorospocher.com/files/slides/2012ekaw_slides.pdf

Video: https://www.youtube.com/watch?v=zOTY8j-w4j4

• Conceptual Modeling in Wikis: a Reference Architecture and a Tool

The Fourth International Conference on Information, Process, and Knowledge Management, eKNOW2012 - Valencia, Spain

30 gen 2012 - 4 feb 2012

Slides: https://marcorospocher.com/files/slides/2012eknow_slides.pdf

• Boosting collaborative ontology building with key-concept extraction

5th IEEE International Conference on Semantic Computing, ICSC2011 - Palo Alto, CA, USA 18 set 2011 - 21 set 2011

Slides: https://marcorospocher.com/files/slides/2011icsc_slides.pdf

• Reasoning on Semantically Annotated Processes

6th International Conference on Service-Oriented Computing, ICSOC2008 - Sydney, Australia 1 dic 2008 - 5 dic 2008

Slides: https://marcorospocher.com/files/slides/2008icsoc_slides.pdf

• Collaborative Knowledge Engineering via Semantic MediaWiki

International Conference on Semantic Systems, I-SEMANTICS08 - Graz University of Technology, Graz, Austria

3 set 2008 - 5 set 2008

Slides: https://marcorospocher.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://marcorospocher.com/files/slides/2014iswcSemDev02_slides.pdf

• MoKi: the Modelling wiKi

SemWiki2009 - Fourth Workshop on Semantic Wikis - Heraklion, Crete, Greece

1 giu 2009

Slides: https://marcorospocher.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

 $18\mathrm{th}$ 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

 $15~{\rm gen}~2005$ - $15~{\rm apr}~2005$

Host: Prof. Pablo Moscato

Argomento di ricerca: Sviluppo di algoritmi di ottimizazione 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 $1~{\rm gen}~2023$ - $31~{\rm dic}~2027$

1 gen 2020 - 51 die 2021

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.dlls.univr.it/

Per: Università degli Studi di Verona

Ruolo: Team Leader (Referente) Infrastrutture (Spazi e Piattaforme Digitali)

• NewsReader (EU FP7 Strep Project, Grant 316404)

Building structured event indexes of large volumes of financial and economic data for decision making

1 gen 2013 - 31 dic 2015

Sito web: https://cordis.europa.eu/project/rcn/106026_en.html

Per: Fondazione Bruno Kessler (FBK)

Ruolo: Gestione del progetto per FBK (Personale FBK coinvolto: 13); Responsabile Work Package 6; Coordinamento di tutte le attività (gestione personale, ricerca, sviluppo) dell'unita 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'unita 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'unita 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 preallenati e di immediato utilizzo, sia per la lingua inglese che per la lingua italiana

Sito web: https://github.com/rospocher/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://videolectures.net/iswc2018_rospocher_ontology_driven_soft/

JPARK: Joint Posterior Revision of NLP Annotations via Ontological Knowledge
 Un modello probabilistico che sfrutto conoscenza ontologica di background per migliorare la
 coerenza e rivedere le annotazioni NLP riguardanti entitàun modello probabilistico che sfrutto
 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://videolectures.net/eswc2016 rospocher 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 supporta alla decisione per utenti basato su dati ambientali Sito web: https://marcorospocher.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://marcorospocher.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/rospocher/explicit-lyrics-detection/

• Surgical Procedural Knowledge Sentences (SPKS)

SPKS è un dataset testuale per il campo della robotica chirurgica composto da 1958 frasi (37022 parole e 3999 parole uniche) annotate manualmente come procedurali e non procedurali da un annotatore esperto

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

• Visual-Textual-Knowledge Entity Linking (VTKEL)

VTKEL, derivato dal dataset Flickr30k-Entities, è costituito da documenti composti da un'immagine e le corrispondenti didascalie. Le menzioni visuali e testuali di ciascuna immagine e didascalia sono annotate e allineate a entità tipate secondo con le classi di YAGO Sito web: https://doi.org/10.6084/m9.figshare.7882781.v6

• Annotated dataset to assess the accuracy of the textual description of cultural heritage records Il dataset contiene più di 100.000 descrizioni testuali di oggetti culturali in Cultura Italia, l'aggregatore culturale nazionale italiano. Ciascuna delle descrizioni è etichettata di qualità ALTA o BASSA, in base alla sua aderenza alle linee guida di catalogazione fornite dall'Istituto Centrale per il Catalogo e la Documentazione (ICCD)

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

2.9 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)

 Cli articoli selezionati sono pubblicati nel Volume 57, Issue 6, November 2020 della rivista
 - 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 39th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2024)

8 apr 2024 - 12 apr 2024

Avila, Spain

https://klp.fbk.eu

• 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 SI-GAPP 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 SI-GAPP 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 SI-GAPP 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: 2019Posters 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: 2012PhD 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

• Marco Bombieri

Automatic extraction of robotic surgery actions from text and kinematic data Università degli Studi di Verona

3 lug 2023

• Matteo Lorenzini

Metadata Quality Evaluation in Cultural Heritage Domain Università degli Studi di Trento 15 feb 2022

• Yaroslav Nechaev

Linking Knowledge Bases to Social Media Profiles Università degli Studi di Trento 15 apr 2019

3.3 Relatore di tesi di Dottorato

• Roxane Segers

Formalizing Events for Detecting Implicit Event Information in Natural Language Text Vrije Universiteit Amsterdam

dal: 8 mag 2018

(assieme a Piek Vossen)

• Marco Bombieri

Automatic extraction of robotic surgery actions from text and kinematic data Università degli Studi di Verona

1 ott 2019 - 3 lug 2023

(assieme a Paolo Fiorini)

• 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 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)

4 Incarichi Istituzionali e Commissioni di Concorso

4.1 Incarichi Dipartimentali

• Coordinamento dei tecnici informatici del dipartimento relativamente allo sviluppo delle piattaforme digitali dipartimentali

dal: 28 dic 2018

• Membro della commissione ricerca del dipartimento

dal: 15 dic 2021

4.2 Incarichi Didattici Istituzionali

- Referente del Corso di Studio in Lingue e Letterature per l'Editoria e i Media Digitali, Università degli Studi di Verona
 1 ott 2021 - 30 set 2022
- Membro della commissione AQ (assicurazione della qualità) del Corso di Studio in Lingue e Letterature per l'Editoria e i Media Digitali, Università degli Studi di Verona 29 mag 2019 - 30 set 2022
- Membro della commissione Competenze Informatiche per i corsi di studio del Dipartimento di Lingue e Letterature Straniere, Università degli Studi di Verona dal: 25 set 2019
- Valutatore delle domande a copertura degli insegnamenti del SSD INF/01 messi a bando dal Dipartimento di Lingue e Letterature Straniere, Università degli Studi di Verona dal: 28 dic 2018
- Membro del gruppo di lavoro per la revisione del Corso di Studio della Laurea Magistrale in Languages, Literatures and Digital Culture (LM37), Università degli Studi di Verona 3 mar 2021 - 12 mag 2022

4.3 Commissioni di Concorso

- Procedure selettive per Professore associato (II fascia) Settore Concorsuale 01/B1, Settore Scientifico Disciplinare INF/01: 2023pa18002 (Università degli Studi di Verona)
- Selezioni Pubbliche per RTD-A, Settore Concorsuale 01/B1, Settore Scientifico Disciplinare INF/01: PON INN RTDA 2021 35 (Università degli Studi di Napoli Federico II)
- Assegni di ricerca: AdR3339/19 (Università degli Studi di Verona), AdR3607/20 (Università degli Studi di Verona), AdR3634/20 (Università degli Studi di Verona), AdR3792/21 (Università degli Studi di Verona)
- Contratti di collaborazione: 4/2020 (Università degli Studi di Verona), 5/2020 (Università degli Studi di Verona), 6/2020 (Università degli Studi di Verona), 12/2021 (Università degli Studi di Verona), 7/2022 (Università degli Studi di Verona)
- Concorsi personale tecnico-informatico: 2019ctatd001 (Università degli Studi di Verona), cod 2019ctatd006 (Università degli Studi di Verona), 2020ctatd005 (Università degli Studi di Verona), 2022ctatd002 (Università degli Studi di Verona)