ROBERTO NAVIGLI
CURRICULUM VITÆ

Rome, November 3, 2024

Part I – General Information

Full Name	Roberto Navigli
Citizenship	Italian
E-mail	navigli@diag.uniroma1.it
Spoken languages	Italian, English, French
Sito Web	http://wwwusers.diag.uniroma1.it/navigli

Part II – Education

Type	Year	Institution	Notes (Degree, Experience, etc.)
Ph.D.	2007	Sapienza	PhD in Computer Science, advisor: prof. Paola Velardi. Thesis: "Structural Semantic Interconnections: a Knowledge-Based WSD Algorithm, its Evaluation and Applications", **Winner of the 2017 AI*IA "Marco Cadoli" national prize for the best PhD thesis in AI**.
B.Sc.+M.Sc.	2001	Sapienza	Master degree in Computer Science, **110/110 cum laude**. Thesis: "An automatic algorithm for domain ontology learning", supervisor: prof. Paola Velardi.

Part III – Appointments

III(A) – Academic and Spinoff Appointments

Start	End	Institution	Position
09/2017	today	Sapienza	**full professor**, Dipartimento di Ingegneria Informatica, Automatica e Gestionale (previously at Dipartimento di Informatica), Università di Roma "La Sapienza".
03/2016	today	Babelscape	**co-founder**
12/2010	08/2017	Sapienza	**associate professor**, Dipartimento di Informatica, Università di Roma "La Sapienza".
03/2007	12/2010	Sapienza	**assistant professor**, Dipartimento di Informatica, Sapienza.
05/2003	03/2007	Sapienza	**research fellow**, Dipartimento di Informatica, Sapienza.

III(B) – Other Appointments

Start	End	Institution	Position
05/2000	04/2003	YH Reply S.p.A. Roma	software engineer

III(C) – Research visits and stays

Start	End	Institution	Position
01/2015	01/2015	Center for Advanced Studies (CAS), LMU, Germany	Invited Visiting Fellow, upon invitation by Prof. Hinrich Schütze
2010	2012	University of Wolverhampton (UK)	Visiting professor, upon invitation by Prof. Ruslan Mitkov
11/2009	12/2009	University of Edinburgh (UK)	Visiting researcher, upon invitation by Prof. Mirella Lapata
01/2009	02/2009	University of Edinburgh (UK)	Visiting researcher upon invitation by Prof. Mirella Lapata
09/2008	09/2008	University of Sussex (UK)	Visiting research fellow, upon invitation by Dr. Diana McCarthy
01/2008	02/2008	University of Edinburgh (UK)	Visiting researcher, upon invitation by Prof. Mirella Lapata
11/2006	05/2007	University of Sussex (UK)	Visiting research fellow, upon invitation by Prof. Mirella Lapata
01/2006	04/2006	University of Edinburgh (UK)	Visiting researcher, upon invitation by Prof. Mirella Lapata

III(D) – Institutional activities

Start	End	Activity
2023	today	Coordinator of the Ph.D. in Engineering in Computer Science, Department of Computer, Control and Management Engineering.
2012	2021	Department contact person for orientation and high schools, including organizing Open Doors at Sapienza and other activities including popular seminars at schools and Work School Alternation.
2022	today	Member of the Doctoral College of the National PhD in Artificial Intelligence .
2021	2021	Member of the Adjudicating Committee for the admission to the XXXVII cycle of the Ph.D. in Artificial Intelligence.
2021	today	Member of the Doctoral College of the PhD in Engineering in Computer Science.
2015	2021	Responsible faculty for organizing the OpenDI orientation day.
2013	2021	Member of the Computer Science Doctoral College.
2010	2014	Member of the Department Scientific Committee.
2011	2014	Member of the Department Library Committee.
2009	2009	Co-organizer of the Department of Computer Science Workshop.
2008	2008	Member of the Adjudicating Committee for the admission to the XXIV cycle of the Ph.D. in Computer Science.
2007	2009	Department website reference faculty.
2007	2010	Member of the Excellence Path Committee.

III(E) – Habilitations

Year	Habilitation
2012	**Italian habilitation to full professor** with maximum score.
2014	**Qualification française à professeur des universités**, French habilitation to full professor.

Part IV – Teaching experience

Year	Institution	Lecture/Course
2024	Sapienza	**Lecturer** of the Elective in AI (in English, AI & Robotics Master's degree).
2024	Sapienza	**Lecturer** of the Fundamentals of Computer Science course (1st year B.Sc. in Management Engineering).
2024	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in AI & Robotics + Engineering in Computer Science).
2023	Sapienza	**Lecturer** of the Elective in AI (in English, AI & Robotics Master's degree).
2023	Sapienza	**Lecturer** of the Fundamentals of Computer Science course (1st year B.Sc. in Management Engineering).
2023	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in AI & Robotics + Engineering in Computer Science).
2022	Sapienza	**Lecturer** of the Elective in AI (in English, AI & Robotics Master's degree).
2022	Sapienza	**Lecturer** of the Fundamentals of Computer Science course (1st year B.Sc. in Management Engineering).
2022	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in AI & Robotics + Engineering in Computer Science).
2021	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2021	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2020	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2020	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2019	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2019	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2018	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2018	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2017	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2017	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2016	Berlino, Germania	**Lecturer** of a 3-hour tutorial on "Semantic Representations of Word Senses and Concepts" ad ACL, NLP reference conference (with Camacho-Collados, Iacobacci and Pilehvar). The tutorial had a **record number of 166 participants**.
2016	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2016	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2016	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2015	Sapienza	**Teacher** of the GameInvaders "programming from scratch" course for high school students (11 lectures, 2 hours each).
2015	Sapienza	**Lecturer** of the Programming Methodologies course (first year, B.Sc. in computer science).
2015	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2015	Sapienza	**Lecturer** of an introductory lecture on computer science, LUISS Summer School.

2015	EUROLAN School	**Invited instructor**, 12th EUROLAN Summer School, Sibiu, Romania (course: 3 ore).
2014	Sapienza	**Lecturer** of the Programming Methodologies course.
2014	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2014	Sapienza	**Lecturer** of an introductory lecture on computer science, LUISS Summer School.
2013	Sapienza	**Lecturer** of the Programming Methodologies course.
2013	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2013	Università di Bari	**Invited Instructor** for a 3-hour tutorial on computational semantics, Laboratori dal Basso.
2012	Sapienza	**Lecturer** of the Programming Methodologies course.
2012	Sapienza	**Lecturer** of the Natural Language Processing course (in English, M.Sc. degree in Computer Science).
2011	Univ. of Ljubljana	**ESSLLI Lecturer** (European Summer School on Language, Logic and Information).
2010	Univ. of Copenhagen	**ESSLLI Lecturer** (European Summer School on Language, Logic and Information).
2010	Sapienza	**Lecturer** of the Machine Learning course (3rd year, B.Sc. in computer science).
2009	Sapienza	**Lecturer** of the Machine Learning course.
2009	Borovets, Bulgaria	**Invited Instructor** of a 3-hour tutorial on graph-based at the RANLP conference (Recent Advances in Natural Language Processing).
2008	U. Basque Country	**Invited Instructor** of a 3-hour introductory lecture on Word Sense Disambiguation.
2008	Sapienza	**Lecturer** of the Machine Learning course.
2007	Sapienza	**Instructor** of the Programming Laboratory course (1st year, B.Sc. in computer science).
2007	Sapienza	**Teaching Assistant** of the Computer Architecture course (primo anno, laurea triennale in informatica).
2007	Sapienza	**Teaching Assistant** of the Programming II course (1st year, B.Sc. in computer science).
2006	Sapienza	**Teaching Assistant** of the Computer Architecture course.
2006	Sapienza	**Teaching Assistant** of the Programming II course.
2005	Sapienza	**Teaching Assistant** of the Computer Architecture course.
2004	Sapienza	**Teaching Assistant** of the Computer Architecture course.
2004	Sapienza	**Teaching Assistant** of the Programming II course.
2003	Sapienza	**Teaching Assistant** of the Computer Architecture course.

Supervision of **more than 120 B.Sc. and M.Sc. students** in computer science on Natural Language Processing, AI, video game programming and other topics.

Part V – Society memberships, Awards and Honors

V(A) – Awards and Prizes

Year	Title
2024	**EurAI Fellow** (`https://www.eurai.org/award/fellows`), "for his seminal contributions to various areas of Natural Language Processing, including his pioneering work on multilingal and cross-lingual Natural Language Understanding".
2024	**ACL Outstanding Paper Award**: NounAtlas: Filling the Gap in Nominal SRL
2023	**ACL Fellow** (`https://aclweb.org/aclwiki/ACL_Fellows`), "for significant contributions to multilingual lexical-semantic resources and a unifying vision for multilingual lexical and sentence-level semantics".
2023	**ACL Outstanding Paper Award**: What's the Meaning of Superhuman Performance in Today's NLU?
2023	Winner of the **Artificial Intelligence Journal Prominent Paper Award 2023**.
2022	**ACL Best Resource Paper Award**: DiBiMT: A Novel Benchmark for Measuring Word Sense Disambiguation Biases in Machine Translation
2021	**NAACL Outstanding Paper Award**: Unifying Cross-Lingual Semantic Role Labeling with Heterogeneous Linguistic Resources
2021	Both ERCs highlighted among the **15 ERC projects that have transformed science**, top 1% of ERC projects. https://www.uniroma1.it/en/notizia/two-sapienzas-erc-projects-have-transformed-science
2020	Listed by Stanford **among the World's Top 2% scientists** https://www.uniroma1.it/en/notizia/sapienza-world-ranking-scientist
2018	**IJCAI 2018 Early Career Spotlight**, invited talk.
2017	Winner of the **Artificial Intelligence Journal Prominent Paper Award 2017**.
2017	**First Italian to have won two prestigious ERC grants in computer science**, an ERC Starting Grant (1.3 million euros) and an ERC Consolidator Grant (1.5 million euros).
2017, 2019, 2021, 2023	**Member of the ERC Starting Grant evaluation panel (PE6 - computer science)** since 2017. "Each ERC panel consists of a chairman and 10-16 members. The Panel Chair and the Panel Members are selected by the ERC Scientific Council **on the basis of their scientific reputation**. For each call, 25 high-level **panels of eminent scientists and scholars have been assembled to take overall responsibility for the selection of the most promising candidates** that will receive these significant grants."
2015	**Winner of the META prize 2015** as the creator of BabelNet, "awarded on an annual basis to outstanding products or services supporting the European Multilingual Information Society". META (Multilingual Europe Technology Alliance) is an association with 817 members, including universities and companies. `http://www.meta-net.eu/meta-prize`
2013	Winner of a **Google Focused Research Award** (with Hans Uszkoreit and Feiyu Xu, 2013-2016) in NLU: "Language Understanding cum Knowledge Yield (LUcKY)".
2014	Winner of an **Ateneo "Award"** 2014 project.
2014	**Best poster award at SEMANTiCS 2014**, "Three birds (in the LLOD cloud) in one stone: BabelNet, Babelfy and the Wikipedia Bitaxonomy", joint with T. Flati.
2013	**Best paper award nominee at ACL 2013**, "Align, Disambiguate and Walk", joint with M. T. Pilehvar and David Jurgens.
2013	Winner of the **biennial AI*IA "Marco Somalvico" National Prize in AI** for young researchers (under 35) who carried out research in Italy and provided a significant personal contribution to the field of AI.
2012	Winner of one of the 32 **Sapienza Research fellowship for scientific research reserved to under-40 professors**.
2010	**First Italian researcher to win an ERC Starting Grant in Computer Science** (1.3M euros).
2010	**"What's up - Giovani Talenti" International Prize for scientific research**, Campidoglio, Rome, 2010
2007	Winner of **AI*IA "Marco Cadoli" National Prize for the Best Ph.D. Thesis in AI**.
2008	**Winner of a short visit research grant**, Royal Society of Edinburgh.
2006	**Winner of a mobility grant**, INTEROP Network of Excellence.

V(B) – Editorial Boards, Editorships, Advisory Boards, Chairs, Program Committees

Year	Title
2025	**General Co-Chair** of ACL 2025, reference conference in NLP.
2023	**Area Chair** of the European Summer School in Artificial Intelligence (ESSAI)
2023	**Area Chair** of AAAI 2023 (Association for the Advancement of Artificial Intelligence)
2023	**Senior PC** for IJCAI 2023.
2023	**Senior Area Chair** for ACL 2023 (Semantics: Sentence-level Semantics, Textual Inference, and Other Areas)
2023	**Senior Area Chair** for EACL 2023 (Information Extraction)
2022-	**Senior Area Chair** for ACL Rolling Review (ARR).
2023	**Senior Meta Reviewer** for ECAI 2023
2022	**Senior Area Chair** of IJCAI-ECAI 2022.
2022	**Area Chair** of AAAI 2022.
2021	**Program Co-Chair** of ACL-IJCNLP 2021, reference conference in NLP.
2020-	**Action Editor** of Transactions of the Association for Computational Linguistics (MIT Press), NLP reference journal.
2021	**Senior Area Chair** of IJCAI 2021.
2021	**Area Chair** of AAAI 2021 (Association for the Advancement of Artificial Intelligence).
2020	**Area Chair** of IJCAI 2020.
2020	**Area Chair** of ECAI 2020 (European Conference on Artificial Intelligence).
2020	**Senior Program Committee** member of AAAI 2020 (Association for the Advancement of Artificial Intelligence).
2019	**Program Co-Chair** of CliC-IT 2019, the Italian NLP conference.
2019	**Area Chair** di AAAI 2019 (Association for the Advancement of Artificial Intelligence).
2019	**Senior Program Committee** member of IJCAI 2019.
2018-today	**Member of the steering committee** of the CINI National Laboratory on Artificial Intelligence and Intelligent Systems.
2013-2020	**Associate Editor** of Artificial Intelligence (Elsevier).
2014-2021	**Standing Elite Reviewer** for *Transactions of the Association for Computational Linguistics* (TACL), reference fast-track journal in NLP.
2018	**Area Chair** of IJCAI-ECAI 2018 (International Joint Conference on Artificial Intelligence).
2018	**Senior Program Committee** member of AAAI 2018 (Association for the Advancement of Artificial Intelligence).
2017	**Senior Program Committee** member of AAAI 2017 (Association for the Advancement of Artificial Intelligence).
2016	**Special track chair** for ESWC 2017 (Extended Semantic Web Conference).
2016	**Area chair** of CLIC 2016 (Italian Conference on Computational Linguistics).
2016	**Area chair** of COLING 2016 (26th International Conference on Computational Linguistics).
2016	**Area chair** of *SEM 2016.
2015-2016	**Advisory Board member of EACL** (European Chapter of the Association for Computational Linguistics).
2014-2015	**Executive Board Member** (Membro del Direttivo) of the AIxIA association.
2010-2020	**Editorial Board member** of Natural Language Engineering (Cambridge University Press).
2015	**Editorial Member of the special issue** on Knowledge graphs, Journal of Web Semantics (Elsevier).
2015	**Guest editor** of Web Semantics (Elsevier), reference journal fo the Semantic Web.
2014-2015	**Member of the executive board (comitato direttivo)** of AIxIA (Associazione Italiana per l'Intelligenza Artificiale).
2014-today	**Advisory Board member** of the Special Interest Group on the Lexicon (SIGLEX).
2014	**Program chair** di *SEM 2014, NLP and computational lexical semantics conference.
2013	**Area chair** of *SEM 2013, NLP and computational lexical semantics conference.
2013	**Guest editor** of Artificial Intelligence (Elsevier).
2013	**Publication chair** of ACL 2013, reference conference in NLP.

2013	**Lab chair** for CLEF 2013 (Cross Language Evaluation Forum).
2012	**Track chair** for WWW 2012, reference conference for Web research.
2012-today	**Editorial Board Member** of the book series "Text, Speech and Language Technology" (Springer).
2011-2013	**Editorial Board Member** (2011-2013) of Computational Linguistics (MIT Press), reference journal in NLP.
2011	**Senior Program Committee member** of IJCAI (International Joint Conference on Artificial Intelligence).
2010	**Area chair** for ACL 2010.
2010-today	**Member of the Advisory Board** of the NLP book series published by John Benjamins.
2009	**Senior Program Committee member** of IJCAI (International Joint Conference on Artificial Intelligence).
2007-2010	**Member of the Executive Board** of the Special Interest Group on the Lexicon (SIGLEX).
2007-today	**Session Chair** for conferences and workshops, including: ACL, EACL, EMNLP, COLING, WWW, RANLP, SemEval, IJCAI.
2006-today	Member of the **program committees** of the main AI and NLP conferences, including: ACL (2006-today), NAACL (2010-today), EACL (2009-today), COLING (2006-today), EMNLP (2006-today), RANLP (2007-today), FLAIRS (2006-2008, 2011), IJCAI (2009-today) e AAAI (2011-12, 2015-today).
2005-today	Reviewer for numerous international journals, including: ACM Surveys, ACM TOIS, ACM TSLP, AIJ, Computational Linguistics, CSL, IEEE TKDE, IEEE Intelligent Systems, DKE, Journal of Data Semantics, IEEE Computer, Information Systems, VLDB Journal, ACM TKDD, IEEE Transactions on ASLP, TACL, JAIR, ACM TWeb.

V(C) – Invited/Keynote Talks at Conferences, Workshops and Summer Schools

Year	Type	Conference
2024	invited speaker	39th Italian Conference on Computational Logic (CILC), Rome, Italy
2024	invited speaker	LLM event, Large Language Models: What They Are, Why They Are Important, and What They Fail At, Ca' Foscari, Venice, Italy
2024	invited speaker	LLM event, What can (and cannot) do generative Natural Language Processing do in 2024?, Bologna, Italy
2023	invited speaker	22nd IEEE/WIC International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), Venice, Italy
2023	invited speaker	European Summer School for Scientometrics (ESSS), Rome, Italy.
2023	invited speaker	ChatGPT: illusions and promises, Turin, Italy
2023	invited speakr	ForumPA: Who wrote it? Intellectual property in the time of generative AI, Rome, Italy
2022	invited speaker	Fourth Iberoamerican and Third Indo-American Conference Knowledge Graph and Semantic Web Conference (KGSWC), Madrid, 21-23 November 2022
2022	invited speaker	AIxIA Spotlight Seminars, online
2022	invited speaker	2022 Conference of European Statistics Stakeholders (CESS), Rome, 20-22 October 2022
2022	invited speaker	Multilingual Digital Terminology Today conference, Padua, 16-17 June 2022
2021	invited speaker	SBU NLP Talk Series, online, 23 June 2021
2021	invited speaker	Evening Speech at the AILC Lectures on Computational Linguistics, Rome, Italy, 16 June 2021
2021	invited speaker	Goldman Sachs.
2021	invited speaker	Facebook Artificial Intelligence Research (FAIR) seminars.

2021	invited speaker	Joint Workshop on Multiword Expressions and Electronic Lexicons (MWE-LEX), Barcelona, Spain.
2020	invited speaker	2020 International Conference on Computational Linguistics and Natural Language Processing (CLNLP), Seoul, South Korea.
2020	invited speaker	5th SwissText & 16th KONVENS (SwissText+KONVENS 2020), Zurich, Switzerland.
2020	Invited speaker	Applied Machine Learning Days (AMLD) at EPFL, Lausanne, Switzerland.
2020	invited speaker	Convegno dell'Associazione per l'Informatica Umanistica e la Cultura Digitale (AIUCD), Milan, Italy
2019	invited speaker	Artificial Intelligence Symposium organized by the European Academy of Science
2019	invited speaker	European Research Council, Brussels, Belgium, 20 September 2019.
2018	invited speaker	EduIA - First Italian Conference on Education and AI, Roma Tre.
2018	invited speaker	TranslatingEurope, Istituto di Alti Studi SSML Carlo Bo.
2018	invited	Dagstuhl Seminar on "Knowledge Graphs", Schloss Dagstuhl.
2018	keynote speaker	2018 Conference Chinese Knowledge Graph and Semantic Computing (CCKS), Tianjin, China.
2018	invited speaker	Early Career Spotlight track at IJCAI-ECAI 2018, Stockholm, Sweden.
2018	keynote speaker	2018 International Conference on Statistical Analysis of Textual Data (JADT), Rome, Italy.
2017	invited speaker	Conference on Computational Approaches to Diversity in Interaction and Meaning, Venice, Italy.
2017	keynote speaker	39th Conference on Translating and the Computer, London, UK.
2017	keynote speaker	Recent Advances in Natural Language Processing (RANLP 2017), Varna, Bulgaria.
2017	keynote speaker	3rd International Workshop on Natural Language Processing for Informal Text (NLPIT 2017) joint with The International Conference on Web Engineering (ICWE 2017), Rome, Italy.
2017	keynote speaker	1st Workshop on Sense, Concept and Entity Representations and their Applications (SENSE) joint with EACL 2017, Valencia, Spain.
2016	invited speaker	Inaugural Conference of the Artificial Intelligence Research Institute (AIRI), South Korea, 11th October 2016.
2016	invited speaker	WebNLG workshop: 2nd International Workshop on Natural Language Generation and the Semantic Web, Edinburgh, UK, September 6, 2016.
2016	invited speaker	European Union Intellectual Property Office (EUIPO), 28th June, 2016.
2016	invited speaker	DigiCosme Research Days 2016, evento annuale tenuto dai membri del laboratorio d'eccellenza DigiCosme, Centrale-Supélec.
2016	invited speaker	Luxembourg BabelNet workshop, workshop monotematico sulla ricerca del prof. Navigli organizzato congiuntamente da EU Commission, EU Parliament e EU Publications Office, 2-3 marzo 2016.
2016	invited guest & speaker	Evento annuale ICT4INTEL, organizzato dal Sistema di informazione per la sicurezza della Repubblica.
2016	invited	Google NLP Workshop 2016, Londra, 2016.
2015	keynote speaker	DRONGO language festival, Utrecht, Netherlands.

2015	invited speaker	Oxford Global Languages Symposium, Oxford (UK), organizzato da OUP.
2015	invited speaker	4th eLex conference on Electronic Lexicography in the 21st century: Linking lexical data in the digital age.
2015	invited speaker	5th Lisbon Machine Learning School (LxMLS), Lisbon, Portugal.
2015	invited professor	12th EUROLAN Summer School, Sibiu, Romania.
2015	invited speaker	11th Summer School on Ontology Engineering and the Semantic Web (SSSW), Bertinoro, Italy.
2015	invited speaker	TALN 2015 – 22ème Conférence sur le Traitement Automatique des Langues Naturelles, Caen, France.
2015	keynote speaker	21st International Conference on Computational Linguistics (DIALOG), Moscow, Russia.
2015	invited speaker	Multilingual Web Access (MWA) 2015 Workshop – colocated with WWW 2015, Firenze.
2014	keynote speaker	NLP & DBpedia 2014 Workshop – colocated with ISWC 2014, Riva Del Garda, Italy.
2014	invited speaker	Workshop on Cognitive Aspects of the Lexicon (CogALex-IV), Dublin, Ireland.
2014	keynote speaker	30th Spanish Conference on Natural Language Processing (SEPLN), Girona, Spain.
2013	invited speaker	6th International Joint Conference on Natural Language Processing (IJCNLP 2013), Nagoya, Japan.
2013	keynote speaker	10th International Conference on Terminology and Artificial Intelligence, Paris, France.
2013	keynote speaker	14th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing), Samos, Greece.
2013	keynote speaker	3rd Workshop on Data Extraction and Object Search (DEOS), Oxford, UK.
2013	invited tutorialist	Laboratori dal Basso, Università di Bari.
2012	invited	Dagstuhl Seminar su "The Multilingual Semantic Web", Schloss Dagstuhl.
2012	invited speaker	3rd Workshop on the Multilingual Semantic Web, Boston, USA.
2011	invited	Google EMEA NLP Faculty Summit, Zurich, Switzerland.
2012	invited speaker	6th International Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse (PAN'12), Rome, Italy.
2012	invited speaker	3rd Italian Information Retrieval Workshop (IIR 2012), Bari, Italy.
2012	invited speaker	38th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2012), Špindlerův Mlýn, Czech Republic.
2011	keynote speaker	Recent Advances in Natural Language Processing (RANLP 2011), Borovets, Bulgaria.
2010	invited speaker	Workshop AI*IA 2010 on Human Language Technologies for Italian, Brescia, Italy.

Moreover, he has held **invited research seminars** at **more than 40 universities and research institutes**, including: U. of Prague, U. of Helsinki, CNRS Orsay/Paris Sud, U. Grenoble, U. Hannover, U. Fribourg, U. Paris 7, LMU Munich, Bing Munich, U. Bologna, U. Paris 13, U. Darmstadt, Max Planck Institute Saarbrücken, U. Politecnica de Madrid, UZH - Universität Zürich, National University of Ireland, Galway (DERI), Columbia U., U. Oxford, DFKI Berlin, U. Bari, U. Ca' Foscari, U. Milano Bicocca, Tokyo Institute of Technology, U. Politecnica de Valencia, U. Sheffield, U. Calabria, U. Trento, U. Heidelberg, U. Cambridge, U. Wolverhampton, U. Edinburgh, U. Basque Country, U. Sussex, IRST-ITC, U. Tor Vergata, IASI-CNR, ISTC-CNR.

V(D) – Press coverage

Some newspaper articles which cover prof. Navigli's scientific results:

- **ANSA** article (23/04/2024) on the first pre-trained Italian LLM, released by Sapienza NLP: "Ecco Minerva, la prima famiglia di LLM addestrati da zero in italiano" (Here is Minerva, the first family of LLMs trained from scratch in Italian).
- **Sole 24 ore** article (23/04/2024): "Ecco Minerva, l'IA in italiano che sfiderà ChatGpt" (Meet Minerva, the AI in Italian that will challenge ChatGpt).
- **ANSA** article (06/12/2023) on an invited talk at their generative AI event: "Macchine per scrivere": cosa sono e cosa possono fare (e non fare) le IA generative. ("Writing machines": what generative AIs are and what they can do (and not do)).
- **Focus interview, 13/08/2022**, on the future of intelligent personal assistants: "Come si addestra un software [di conversazione]" e "Le prossime frontiere"
- Articolo su **Il Messaggero del 17/05/2021**: Così le macchine decifreranno le lingue per noi
- Articolo su **Il Tascabile Treccani del 15/06/2018**: Come salvare una lingua?
- Articolo su **The Guardian del 23/02/2018**: Inside the OED: can the world's biggest dictionary survive the internet?
- Articolo su **Dnevnik del 02/03/2018**: Računalnik učimo brati časopisne članke (We teach computers to read newspaper articles).
- Articolo su **ANSA del 23/02/2017**: Wikipedia, è 'guerra' invisibile tra i robot correttori.
- Articolo sul **TIME del 23/05/2016**: "Redefining the modern dictionary".
- Articolo su **La Nazione/Il Resto del Carlino/Il Giorno/Quotidiano Nazionale del 3/12/2015**: "La lingua universale nasce in Rete: BabelNet, il dizionario del sapere".
- Intervista su **Slator.com, 24/11/2015**: "Deep Insights on Big News: Experts React to Spain's $100M Language Tech Investment".
- Articolo su **Slator.com, 29/10/2015**: "EU's BabelNet Is Starting to Break through to Business Applications".
- Articolo su **TAUS review, April 2015**: "BabelNet – How the World Can Help Disambiguate Words".
- Articolo su **Repubblica del 2/11/2014**: "Lost in translation", relativo alle risorse computazionali allo stato dell'arte per la traduzione.
- Articolo su **Corriere della Sera del 12/9/2010**: "Quei tre supercervelloni: quando il talento paga", relativo al progetto ERC Starting Grant.

Part VI – Funding Information [grants as PI-principal investigator or I-investigator]

VI(A) – Project Portfolio

Overall project funds of **around 4.5 million euros secured as personal share**:

Year	Title	Program	Grant value
2023-2025	FAIR: Future AI Research (Partenariato Esteso in AI)	Next-Gen EU / Partenariati Estesi PNRR	114M euros (personal share: 600k+ euros)
2022-2025	CREATIVE: CRoss-modal understanding and gEnerATIon of Visual and tExtual content	PRIN	ca. 897,000 euro (personal share: ca. 321,000 euro)
2021-2022	Universal Semantic Annotator (USeA)	UE European Language Grid	113,000 euro (personal share)
2019-2022	PerLIR: Personal Linguistic resources in Information Retrieval	PRIN	324,000 euro (personal share: 100,640 euro)
2018-2022	European Lexicographic Infrastructure (ELEXIS), contract n. 731015 (Sapienza coordinator)	EU Infrastructure Project	4,999,967 euro ca. (personal share: ca. 450,000 euro)
2017-2022	Multilingual Open-text Unified Syntax-independent SEmantics (MOUSSE), contract 726487 (PI)	**ERC Consolidator Grant** in "Computer science and informatics"	1,500,000 euro ca.
2015-2017	SINAPSI (PI for NLP)	Joint Project CINI-Sapienza	300,000 euro (personal share: 100,000 euro)
2013-2016	Language Understanding cum Knowledge Yield (LUcKY) (Co-PI with Hans Uszkoreit and Feiyu Xu, DFKI Berlin)	**Google Focused Research Award** in "Natural Language Understanding"	222,000 USD (personal share: 37,000 USD)
2013-2015	Linked Data as an enabler of cross-media and multilingual content analytics for enterprises across Europe (LIDER), contract number 610782 (Sapienza PI)	EU FP7 ICT-2013.4.1	1,482,000 euro (personal share: ca. 90,000 euro)
2011-2016	Multilingual Joint word sensE DIsambiguation (MultiJEDI), contract number 259234 (PI)	**ERC Starting Grant** in "Computer science and informatics"	1,300,000 euro ca.
2016	Gamification for Supporting Cross-Lingual Learning in Higher Education (PI)	Sapienza Project 2015	10,000 euro
2015	Women and Social Leadership (WeSocial) (PI)	Sapienza Project **"Awards"** 2014	36,925 euro
2013	Combining the Structure and Content of Social Networks for Acquiring Novel, Up-to-date Knowledge (PI)	Sapienza Project 2012	13,500 euro
2012	Mining the Web to Acquire Multicultural and Multilingual Semantic Networks (PI)	Sapienza Project 2011	28,600 euro
2011	Acquisizione Automatica di Glossari e Ontologie Multilingue e Multimediali (PI)	Sapienza Project 2010	35,000 euro
2010	Analisi di reti sociali basata sul contesto (PI)	Sapienza Project 2009	41,600 euro

VI(B) – Technological Transfer

Co-founder (75% share) of Babelscape srl (http://babelscape.com), a **Sapienza startup company**, thanks to which he demonstrated **strong abilities in the technological transfer of the scientific research** carried out in the multilingual NLP lab. The company has several contracts with big companies and public bodies.

Part VII – Research Activities

All the research activities are focused in the field of Natural Language Processing, with a focus on lexical and sentence-level semantics and, more recently, summarization, coreference resolution and Large Language Models. In particular, the following areas have been or are currently under investigation:

Keywords	Brief Description
Word Sense Disambiguation (WSD) & Induction	We have been working on the automatic resolution of lexical ambiguity, a key problem that underlies text comprehension. We have addressed this problem by proposing innovative knowledge-based, neural and neuro-symbolic approaches aimed at overcoming the various limitations of previous supervised systems, including the need to manually annotate large amounts of sentences in each language and the granularity of the reference sense inventories. We have also worked on the problem from different angles, such as inducing the meanings a word can express with graph-based algorithms and proposing new disambiguation paradigms based on lexical substitution, definition generation, and word sense comprehension.
Semantic Role Labeling (SRL)	We have been working on addressing the various long-standing issues in labeling semantic roles, namely: the ability to abstract away from the English language, thanks to the introduction of a novel language-independent frameset resource, VerbAtlas (http://verbatlas.org), and cross-lingual cross-inventory neural architecture for the SRL task. Moreover, given the focus on verbal SRL, we have successfully investigated how to scale the task to nominal role labeling given the lack of training data (and even the lack of wide-coverage nominal framesets).
Semantic Parsing	We work on the creation of language-independent representations of meaning for entire sentences, a task referred to as Semantic Parsing. Here we have worked on several improvements in cross-lingual Abstract Meaning Representation (AMR) and on the development of a brand-new language-independent representation, BabelNet Meaning Representation (BMR) – bound to our BabelNet knowledge graph – and its use for multilingual semantic parsing.
Taxonomy and Ontology Learning	Another key goal in my past research was to enable automatic reasoning by creating and utilizing structured knowledge navigation: this was achieved by putting forward novel methods to create taxonomic and ontological structures, including specialized ones, proposing new graph-based algorithmic techniques, such as OntoLearn and OntoLearn Reloaded, as well as an algorithm for the creation of a comprehensive taxonomy of an encyclopedic resource such as Wikipedia (the Wikipedia Bitaxonomy).
Knowledge Acquisition	We have addressed the topic of large-scale knowledge acquisition through innovative approaches that have enabled the creation of the largest multilingual knowledge graph, BabelNet (https://babelnet.org), from the automatic integration of more than 50 different knowledge resources (WordNet, Wikipedia, Wiktionary, Wikidata, and many others). BabelNet is now a very popular resource not only in NLP but also in many other areas of AI, used by more than 1000 research bodies and institutions. To complement these approaches, we have proposed several original Open Information Exraction algorithms that, by bringing together syntactic and semantic analysis, can extract millions of semantic relationships between concepts and entities.

Multilinguality	In recent years, also thanks to the creation of BabelNet, a whole new research direction has opened up that aims to develop algorithms for multilingual NLP and that I am exploring with my research group. Such algorithms have the peculiarity of cross-referencing the information available in different languages, automatically learning patterns that, on the one hand, take into account the complexities of each language and, on the other hand, leverage their interactions to improve performance in language comprehension. This dimension affects all research areas pursued in my group, including Word Sense Disambiguation (from Babelfy to more recent models like AMuSE-WSD), Semantic Role Labeling (InVeRo SRL), Semantic Parsing (e.g. BabelNet Meaning Representation).
Large Language Models	Starting from 2023, we have been working on creating pre-trained Large Language Models (LLMs) in Italy, in the context of the Future AI Research (FAIR) project, which brings together the AI community, with the goal of, first, creating the missing know-how for large-scale endevours in this direction and, second, innovating LLMs with the introduction of novel factuality and trustworthiness concepts.

Part VIII – Summary of Scientific Achievements

VIII(A) – Bibliometrics

Co-author of more than 200 publications, out of which:

Product type	Number	Database	Start	End
Journal papers [international]	38	Google Scholar	2002	2024
Conference papers [international]	190	Google Scholar	2002	2024
Workshop papers [international]	22	Google Scholar	2003	2022
Book chapters [scientific]	5	Google Scholar	2004	2022

- **57 papers on A*-class journals and conferences** according to the Australian CORE classification and **Q1** according to Scimago (among which: 1 ACM Computing Surveys, 2 IEEE Transactions on Pattern Analysis and Machine Intelligence, 5 Computational Linguistics, 7 Artificial Intelligence Journal, 1 Information Systems, 1 Knowledge-based Systems; 51 ACL, 16 IJCAI, 3 WWW, 11 AAAI).

- **38 papers on A-class journals and conferences** (among which: 2 Natural Language Engineering, 1 JAIR, 2 IEEE Intelligent Systems; 8 EACL, 17 NAACL, 27 EMNLP, 3 COLING, 4 ISWC, 2 CIKM, 1 ECAI).

Total Citations	25156
Hirsch (H) index	70

Citations retrieved from Google scholar.

VIII(B) – Other international achievements
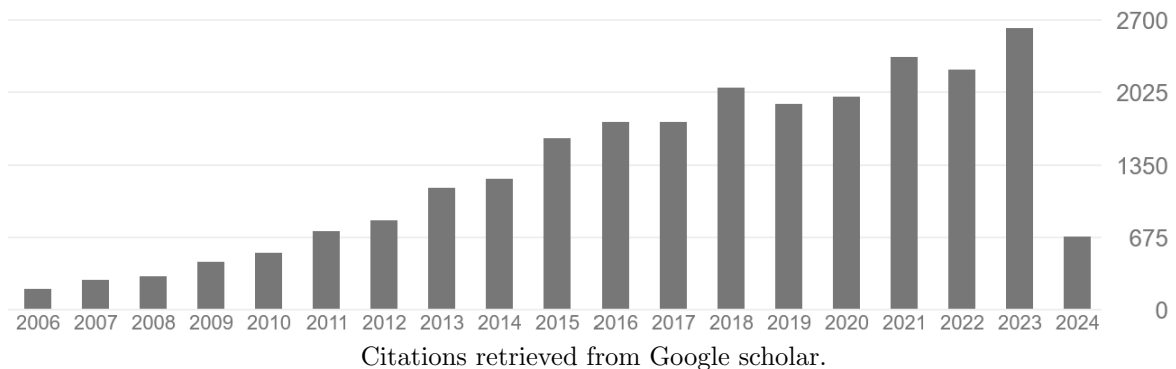
- **Creation and management of the Sapienza NLP group**, currently with 1 post-doc and 11 Ph.D. students plus numerous visitors, all with publications in the top conferences and results beyond the state of the art. Former students and collaborators now work at **Amazon**, **Microsoft Bing**, **Huawei**, **University of Cambridge**, **University of Helsinki**, **University of Mannheim**, among others. A list of Ph.D. students (excluding those who just started) follows:

  1. Luca Moroni: tema in fase di definizione (39esimo ciclo)
  2. Luca Gioffrè: tema in fase di definizione (39esimo ciclo)
  3. Lu Xu: tema in fase di definizione (39esimo ciclo)
  4. Tommaso Bonomo: *Story understanding and storytelling* (38esimo ciclo)
  5. Karim Ghonim: *Multimodal understanding* (38esimo ciclo)
  6. Lorenzo Proietti: *Novel sentence semantic representations* (38esimo ciclo)
  7. Stefano Perrella: *Novel Machine Translation evaluation measures* (38esimo ciclo)
  8. Francesco Molfese: *New methods for commonsense reasoning* (38esimo ciclo)
  9. Giuliano Martinelli: *New approaches to coreference resolution* (38esimo ciclo);
  10. Simone Tedeschi: *NER e Entity linking multilingue* (37esimo ciclo);
  11. Pere-Lluis Huguet Cabot: *multilingual Information Extraction*(37esimo ciclo);
  12. Alessandro Scirè: *Text summarization multilingue* (37esimo ciclo);
  13. Stefan Bejgu: *Multilingual semantic reprensetations* (37esimo ciclo);
  14. Riccardo Orlando: *Multilingual Natural Language Understanding* (37esimo ciclo);
  15. Cesare Campagnano: *Semantic Role Labeling with applications* (36esimo ciclo);
  16. Carlos Abelardo Lorenzo Martinez: *Multilingual Semantic Parsing* (36esimo ciclo);
  17. Simone Conia: *Multilingual Semantic Role Labeling* (35esimo ciclo);
  18. Edoardo Barba: *Multilingual Word Sense Disambiguation and Alignment* (35esimo ciclo);
  19. Federico Martelli: *Multilingual Word-in-Context Disambiguation* (35esimo ciclo);
  20. Luigi Procopio: *Disambiguation and Semantic Parsing* (35esimo ciclo);
  21. Niccolò Campolungo: *Machine Translation and Word Sense Disambiguation* (35esimo ciclo);
  22. Bianca Scarlini: *the knowledge acquisition bottleneck and new explicit representations of meaning* (34esimo ciclo);
  23. Michele Bevilacqua: *state-of-the-art word sense disambiguation* (34esimo ciclo);
  24. Rexhina Blloshmi: *cross-lingual semantic parsing* (34esimo ciclo);
  25. Caterina Lacerra: *neural lexical substitution* (34esimo ciclo);
  26. Andrea Di Fabio: *multilingual resources for semantic role labeling* (33esimo ciclo);
  27. Marco Maru: *new approaches to Word Sense Disambiguation* (33esimo ciclo);
  28. Tommaso Pasini: *multilingual Word Sense Disambiguation on a large scale* (31esimo ciclo);
  29. Ignacio Iacobacci: *neural networks for novel representations of meanings* (30esimo ciclo);
  30. José Camacho-Collados (partial supervision): *multilingual knowledge-based semantic representations of meaning* (30esimo ciclo) – **winner of a Google Ph.D. fellowship**;
  31. Alessandro Raganato: *a full-fledged multilingual pipeline beyond the state of the art* (30esimo ciclo), now postdoc at the University of Helsinki;
  32. Claudio Delli Bovi: *integrating syntax and semantics for large-scale Web information extraction* (30esimo ciclo), now Applied Scientist in Natural Language Understanding at Amazon;
  33. Daniele Vannella: *automatic acquisition and enrichment of large knowledge bases* (28esimo ciclo);
  34. Tiziano Flati: *Learning of a Multilingual Bitaxonomy of Wikipedia and its Application to Semantic Predicates* (27esimo ciclo);
  35. Andrea Moro: *Natural Language Understanding: from Raw Text to Disambiguated Concepts, Entities and Relations* (27esimo ciclo),ora software engineer presso Microsoft Bing, Londra;
  36. Mohammad Taher Pilehvar: *Semantic Signatures: Rich and Flexible Representations of Lexical Meanings* (27esimo ciclo), now research associate at the University of Cambridge;
  37. Stefano Faralli: *Ontology Learning from Scratch* (27esimo ciclo), now researcher at Sapienza-Unitelma (formerly postdoc at the University of Mannheim);

- **External member** of several PhD committees: Université de Fribourg, Université de Grenoble, University of Coimbra, University of Melbourne, Roma Tor Vergata, University of Darmstadt, University of Canterbury, Universidad Politecnica de Catalunya, University of Munich LMU, University of Trento, La Trobe University.
- **Evaluator** for several research schemes: ERC Starting Grant, ERC Consolidator Grant, Future Emerging Technologies (FET), French ANR, Croatian, Portuguese, Belgian, Polish, Israeli projects, Italo-German projects and projects from Aix*Marseille and Università di Verona.
- **Workshop co-organizer**: "Semantics-Driven Statistical Machine Translation Theory and Practice (S2MT)", colocated with ACL 2015.
- **Workshop co-organizer**: "TEXAS: Taxonomy Extraction with Applications in Semantics", colocated with EMNLP 2014.
- **Workshop co-organizer**: "Collaboratively-built knowledge sources and Artificial Intelligence", colocated with AAAI 2010.

Publications

Publications with more than 100 co-authors, including:

E. Agirre – University of the Basque Country, Spain, *C. Baron* – U. Leipzig, Germany, *M. Baroni* – U. Trento, *N. Bel* – U. Pompeu Fabra, Spain, *B. Berendt* – Humboldt University, Berlin, *P. Bottoni* – Sapienza, *S. Brody* – U. Edinburgh, *M. Brümmer* – U. Leipzig, Germany, *J. Camacho-Collados* – Sapienza, *D. Ceccarelli* – ISTI CNR, Pisa, *F. Cecconi* – Sapienza, *P. Cimiano* – U. Bielefeld, Germany, *L. Cinque* – Sapienza, *M. Cornolti* – U. Pisa, *G. Crisafulli* – Sapienza, *A. Cucchiarelli* – U. Politecnica delle Marche, *M. Curzi* – U. Politecnica delle Marche, *P. D'Amadio* – Sapienza, *F. D'Antonio* – U. Politecnica delle Marche, *F. De Benedictis* – Sapienza, *O. De Lacalle* – U. Basque Country, Spain, *A. De Nicola* – IASI CNR Roma, *C. Delli Bovi* – Sapienza, *A. Di Marco* – Sapienza, *M. Ehrmann* – Sapienza, *L. Espinosa-Anke* – U. Pompeu Fabra, Spain, *S. Faralli* – Sapienza, *M. Federico* – FBK, *P. Ferragina* – U. Pisa, *N. Ferro* – U. Padova, *T. Flati* – Sapienza, *P. Forner* – FBK, *A. Gangemi* – ISTC CNR Roma, *O. Hargraves* – Lexicographer, *L. Hennig* – DFKI, Germany, *E. Hovy* – ISI University of Southern California, *I. Iacobacci* – Sapienza, *D. Jurgens* – Sapienza/McGill, *B. Keller* – U. Sussex, *S. Krause* – DFKI, Germany, *M. Lapata* – U. Edinburgh, *C. Lemke* – U. Leipzig, Germany, *H. Li* – DFKI, Germany, *K. Litkowski* – CL Research, *B. Magnini* – FBK, *A. Malizia* – Universidad Carlos III de Madrid, *D. McCarthy* – U. Sussex, *J. McCrae* – U. Bielefeld, Germany, *S. Mendes* – Universidade de Lisboa, *M. Missikoff* – IASI CNR Roma, *A. Moro* – Sapienza, *H. Müller* – HES-SO, Svizzera, *F. Neri* – U. Politecnica delle Marche, *S. Necsulescu* – U. Pompeu Fabra, Spain, *A. Ngonga Ngomo* – U. Leipzig, Germany, *R. Paredes* – Universidad Politecnica de Valencia, *F. Parisi Presicce* – Sapienza, *T. Pasini* – Sapienza, *R. Passonneau* – Columbia University, USA, *M. Petit* – U. Namur, *M. T. Pilehvar* – Sapienza, *S. Ponzetto* – U. Heidelberg, *A. Raganato* – Sapienza, *S. O. Rezendea* – University of Sao Paulo, *G. Rizzo* – Eurecom, France, *F. Ronzano* – U. Pompeu Fabra, Spain, *R. G. Rossic* – University of Sao Paulo, *P. Rosso* – U. Politecnica de Valencia, *J. M. Ruiz-Martínez* – University of Murcia, *H. Sack* – U. di Potsdam, Germany, *H. Saggion* – U. Pompeu Fabra, Spain, *D. Scarfini* – Sapienza, *R. A. Sinoara* – University of Sao Paulo, *A. Soroa* – U. Basque Country, Spain, *R. Speck* – U. Leipzig, Germany, *B. Stein* – Bauhaus-Universität Weimar, *F. Suchanek* – Télécom ParisTech, France, *L. Telesca* – Sapienza, *D. Toscani* – Sapienza, *R. Tronci* – EURECOM, France, *D. Tufis* – RACAI, Romania, *R. Usbeck* – U. Leipzig, Germany, *H. Uszkoreit* – DFKI, Germany, *D. Vannella* – Sapienza, *P. Velardi* – Sapienza, *D. Weissenborn* – DFKI, Germany, *L. Wesemann* – U. Leipzig, Germany, *F. Xu* – DFKI, Germany.

Ph.D. thesis

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Books

2. A. Hogan, E. Blomqvist, M. Cochez, C. d'Amato, G. de Melo, C. Gutiérrez, S. Kirrane, J. E. Labra Gayo, **R. Navigli**, S. Neumaier, A. Ngonga Ngomo, A. Polleres, S. M. Rashid, A. Rula, L. Schmelzeisen, J. F. Sequeda, S. Staab, A. Zimmermann. Knowledge Graphs. Synthesis Lectures on Data, Semantics, and Knowledge, Morgan & Claypool Publishers 2021, ISBN 978-3-031-00790-3, pp. 1-257

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3. R. Cucchiara, F. Giannotti, D. Nardi, **R. Navigli**. AI for Future Italy: The CINI Vision and Recommendations. National CINI Lab AIIS (Artificial Intelligence and Intelligent Systems), endorsed by DIS (Dipartimento di Informazioni per la Sicurezza) of the Italian Presidency of the Council of Ministers, 2020.

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5. A. Hogan, E. Blomqvist, M. Cochez, C. d'Amato, G. de Melo, C. Gutiérrez, S. Kirrane, J. E. Labra Gayo, **R. Navigli**, S. Neumaier, A. Ngonga Ngomo, A. Polleres, S. M. Rashid, A. Rula, L. Schmelzeisen, J. F. Sequeda, S. Staab, A. Zimmermann. Knowledge Graphs. ACM Comput. Surv. 54(4): 71, 2022, pp. 1-37.

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7. J. Camacho-Collados, C. Delli Bovi, A. Raganato, **R. Navigli**. SenseDefs: a multilingual corpus of semantically annotated textual definitions - Exploiting multiple languages and resources jointly for high-quality Word Sense Disambiguation and Entity Linking. *Language Resources and Evaluation*, 53(2), 2019, pp. 251-278.

8. **R. Navigli**, Federico Martelli. An overview of word and sense similarity. *Natural Language Engineering*, 25(6), 2019, pp. 693-714.

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22. A. Di Marco, **R. Navigli**. Clustering andDiversifying Web Search Results with Graph-Based Word Sense Induction. *Computational Linguistics*, 39(3), MIT Press, 2013, pp. 709-754.

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24. B. Magnini, M. Baroni, M. Federico, **R. Navigli**. Recent Advancements in Human Language Technology in Italy. *Intelligenza Artificiale*, 7(2), IOS Press, 2013, pp. 91-100.

25. **R. Navigli**. BabelNet and Friends: A manifesto for multilingual semantic processing. *Intelligenza Artificiale*, 7(2), IOS Press, 2013, pp. 165-181.

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28. **R. Navigli**, M. Lapata. An Experimental Study of Graph Connectivity for Unsupervised Word Sense Disambiguation, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 32(4), 2010, pp. 678-692.

29. **R. Navigli**.Word Sense Disambiguation: a Survey, *ACM Computing Surveys*, 41(2), ACM Press, 2009, pp. 1-69.

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31. D. McCarthy, **R. Navigli**. The English Lexical Substitution Task, *Language Resources and Evaluation*, 43(2), Springer, 2009, pp. 139-159.

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36. **R. Navigli**, P. Velardi. Learning Domain Ontologies from Document Warehouses and Dedicated Web Sites, *Computational Linguistics* 30(2), MIT Press, June 2004, pp. 151-179.

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39. **R. Navigli**. Ontologies. The Oxford Handbook of Computational Linguistics (2nd edition, R. Mitkov, Ed.), Oxford University Press, To appear.

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