Roberto Navigli

List of Publications by Year
in descending order

74 papers	6,527 citations
257101 24 h-index	223531 46 g-index
78 all docs	78 docs citations
78 times ranked	3107 citing authors

#	Article	IF	Citations
1	Word sense disambiguation. ACM Computing Surveys, 2009, 41, 1-69.	16.1	1,138
2	BabelNet: The automatic construction, evaluation and application of a wide-coverage multilingual semantic network. Artificial Intelligence, 2012, 193, 217-250.	3.9	951
3	Knowledge Graphs. ACM Computing Surveys, 2022, 54, 1-37.	16.1	585
4	Entity Linking meets Word Sense Disambiguation: a Unified Approach. Transactions of the Association for Computational Linguistics, 2014, 2, 231-244.	3.2	494
5	Learning Domain Ontologies from Document Warehouses and Dedicated Web Sites. Computational Linguistics, 2004, 30, 151-179.	2.5	279
6	Structural semantic interconnections: a knowledge-based approach to word sense disambiguation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1075-1086.	9.7	229
7	A software engineering approach to ontology building. Information Systems, 2009, 34, 258-275.	2.4	229
8	An Experimental Study of Graph Connectivity for Unsupervised Word Sense Disambiguation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 678-692.	9.7	193
9	Word Sense Disambiguation: A Unified Evaluation Framework and Empirical Comparison. , 2017, , .		148
10	OntoLearn Reloaded: A Graph-Based Algorithm for Taxonomy Induction. Computational Linguistics, 2013, 39, 665-707.	2.5	140
11	Nasari: Integrating explicit knowledge and corpus statistics for a multilingual representation of concepts and entities. Artificial Intelligence, 2016, 240, 36-64.	3.9	125
12	SemEval-2015 Task 13: Multilingual All-Words Sense Disambiguation and Entity Linking. , 2015, , .		122
13	Collaboratively built semi-structured content and Artificial Intelligence: The story so far. Artificial Intelligence, 2013, 194, 2-27.	3.9	110
14	GERBIL. , 2015, , .		104
15	Clustering and Diversifying Web Search Results with Graph-Based Word Sense Induction. Computational Linguistics, 2013, 39, 709-754.	2.5	97
16	SemEval-2007 task 10. , 2007, , .		84
17	A Quick Tour of Word Sense Disambiguation, Induction and Related Approaches. Lecture Notes in Computer Science, 2012, , 115-129.	1.0	83
18	The English lexical substitution task. Language Resources and Evaluation, 2009, 43, 139-159.	1.8	76

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19	SemEval-2007 task 07. , 2007, , .		76
20	The OntoWordNet Project: Extension and Axiomatization of Conceptual Relations in WordNet. Lecture Notes in Computer Science, 2003, , 820-838.	1.0	74
21	Knowledge-enhanced document embeddings for text classification. Knowledge-Based Systems, 2019, 163, 955-971.	4.0	74
22	From senses to texts: An all-in-one graph-based approach for measuring semantic similarity. Artificial Intelligence, 2015, 228, 95-128.	3.9	69
23	A Proposal for a Unified Process for Ontology Building: UPON. Lecture Notes in Computer Science, 2005, , 655-664.	1.0	66
24	Knowledge Graphs. Synthesis Lectures on Data, Semantics and Knowledge, 2021, 12, 1-257.	3.9	63
25	Meaningful clustering of senses helps boost word sense disambiguation performance. , 2006, , .		58
26	NASARI: a Novel Approach to a Semantically-Aware Representation of Items. , 2015, , .		57
27	Two Is Bigger (and Better) Than One: the Wikipedia Bitaxonomy Project. , 2014, , .		51
28	SemEval-2014 Task 3: Cross-Level Semantic Similarity. , 2014, , .		51
29	Natural Language Understanding: Instructions for (Present and Future) Use. , 2018, , .		46
30	A Large-Scale Pseudoword-Based Evaluation Framework for State-of-the-Art Word Sense Disambiguation. Computational Linguistics, 2014, 40, 837-881.	2.5	42
31	Large-Scale Information Extraction from Textual Definitions through Deep Syntactic and Semantic Analysis. Transactions of the Association for Computational Linguistics, 2015, 3, 529-543.	3.2	41
32	The Usable Ontology: An Environment for Building and Assessing a Domain Ontology. Lecture Notes in Computer Science, 2002, , 39-53.	1.0	37
33	Ensemble methods for unsupervised WSD. , 2006, , .		29
34	Two birds with one stone. , 2011, , .		29
35	Recent Trends in Word Sense Disambiguation: A Survey. , 2021, , .		29
36	It's All Fun and Games until Someone Annotates: Video Games with a Purpose for Linguistic Annotation. Transactions of the Association for Computational Linguistics, 2014, 2, 449-464.	3.2	27

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37	An overview of word and sense similarity. Natural Language Engineering, 2019, 25, 693-714.	2.1	26
38	Mining the Web to Create Specialized Glossaries. IEEE Intelligent Systems, 2008, 23, 18-25.	4.0	23
39	Embedding Words and Senses Together via Joint Knowledge-Enhanced Training. , 2017, , .		23
40	Open Knowledge Extraction Challenge. Communications in Computer and Information Science, 2015, , 3-15.	0.4	22
41	Ontology Enrichment Through Automatic Semantic Annotation of On-Line Glossaries. Lecture Notes in Computer Science, 2006, , 126-140.	1.0	21
42	Towards a Seamless Integration of Word Senses into Downstream NLP Applications. , 2017, , .		21
43	A structural approach to the automatic adjudication of word sense disagreements. Natural Language Engineering, 2008, 14, 547-573.	2.1	20
44	MultiWiBi: The multilingual Wikipedia bitaxonomy project. Artificial Intelligence, 2016, 241, 66-102.	3.9	20
45	Quantitative and qualitative evaluation of the OntoLearn ontology learning system. , 2004, , .		19
46	WiSeNet. , 2012, , .		19
47	BabelDomains: Large-Scale Domain Labeling of Lexical Resources. , 2017, , .		18
48	Validating and Extending Semantic Knowledge Bases using Video Games with a Purpose. , 2014, , .		18
49	Train-O-Matic: Large-Scale Supervised Word Sense Disambiguation in Multiple Languages without Manual Training Data. , 2017, , .		17
50	A Robust Approach to Aligning Heterogeneous Lexical Resources. , 2014, , .		17
51	Semantic Rule Filtering for Web-Scale Relation Extraction. Lecture Notes in Computer Science, 2013, , 347-362.	1.0	14
52	Sar-graphs: A language resource connecting linguistic knowledge with semantic relations from knowledge graphs. Web Semantics, 2016, 37-38, 112-131.	2.2	12
53	Train-O-Matic: Supervised Word Sense Disambiguation with no (manual) effort. Artificial Intelligence, 2020, 279, 103215.	3.9	12
54	Clustering Web Search Results with Maximum Spanning Trees. Lecture Notes in Computer Science, 2011, , 201-212.	1.0	11

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55	EuroSense: Automatic Harvesting of Multilingual Sense Annotations from Parallel Text. , 2017, , .		11
56	Quasi Bidirectional Encoder Representations from Transformers for Word Sense Disambiguation. , 2019, , .		11
57	Cross level semantic similarity: an evaluation framework for universal measures of similarity. Language Resources and Evaluation, 2016, 50, 5-33.	1.8	10
58	GlossExtractor: A Web Application to Automatically Create a Domain Glossary. Lecture Notes in Computer Science, 2007, , 339-349.	1.0	7
59	BabelNetXplorer. , 2012, , .		7
60	Automatic Identification and Disambiguation of Concepts and Named Entities in the Multilingual Wikipedia. Lecture Notes in Computer Science, 2015, , 357-366.	1.0	7
61	BabelNet and Friends: A manifesto for multilingual semantic processing. Intelligenza Artificiale, 2013, 7, 165-181.	1.0	6
62	Consistent Validation of Manual and Automatic Sense Annotations with the Aid of Semantic Graphs. Computational Linguistics, 2006, 32, 273-281.	2.5	5
63	A Quick Tour of BabelNet 1.1. Lecture Notes in Computer Science, 2013, , 25-37.	1.0	4
64	APPLYING THE UNIFIED PROCESS TO LARGE-SCALE ONTOLOGY BUILDING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 94-99.	0.4	3
65	SenseDefs: a multilingual corpus of semantically annotated textual definitions. Language Resources and Evaluation, 2019, 53, 251-278.	1.8	3
66	AUTOMATIC ACQUISITION OF A THESAURUS OF INTEROPERABILITY TERMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 100-105.	0.4	2
67	ALaSca: an Automated approach for Large-Scale Lexical Substitution. , 2021, , .		2
68	An Overview of BabelNet and its API for Multilingual Language Processing. Theory and Applications of Natural Language Processing, 2013, , 177-197.	0.3	2
69	Multilingual semantic dictionaries for natural language processing: The case of BabelNet. World Scientific Encyclopedia With Semantic Computing and Robotic Intelligence, 2017, , 149-163.	0.0	1
70	Multilingual semantic dictionaries for natural language processing: The case of BabelNet. Encyclopedia With Semantic Computing and Robotic Intelligence, 2017, 01, 1630015.	0.2	1
71	MultiMirror: Neural Cross-lingual Word Alignment for Multilingual Word Sense Disambiguation. , 2021, , .		1
72	Recent advancements in human language technology in Italy. Intelligenza Artificiale, 2013, 7, 91-100.	1.0	0

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73	Sar-Graphs: A Language Resource Connecting Linguistic Knowledge with Semantic Relations from Knowledge Graphs. SSRN Electronic Journal, 2016, , .	0.4	0
74	From MultiJEDI to MOUSSE. , 2018, , .		0