

Francisco M Couto

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,669
citations

304743

22
h-index

206112

48
g-index

111
all docs

111
docs citations

111
times ranked

2809
citing authors

#	ARTICLE	IF	CITATIONS
1	Semantic Similarity in Biomedical Ontologies. PLoS Computational Biology, 2009, 5, e1000443.	3.2	627
2	Metrics for GO based protein semantic similarity: a systematic evaluation. BMC Bioinformatics, 2008, 9, S4.	2.6	274
3	Measuring semantic similarity between Gene Ontology terms. Data and Knowledge Engineering, 2007, 61, 137-152.	3.4	166
4	The CHEMDNER corpus of chemicals and drugs and its annotation principles. Journal of Cheminformatics, 2015, 7, S2.	6.1	166
5	The AgreementMakerLight Ontology Matching System. Lecture Notes in Computer Science, 2013, , 527-541.	1.3	115
6	Facts from Text—Is Text Mining Ready to Deliver?. PLoS Biology, 2005, 3, e65.	5.6	108
7	Identifying disease genes using machine learning and gene functional similarities, assessed through Gene Ontology. PLoS ONE, 2018, 13, e0208626.	2.5	79
8	Semantic similarity over the gene ontology. , 2005, , .		61
9	Automatic concept recognition using the Human Phenotype Ontology reference and test suite corpora. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav005-bav005.	3.0	55
10	Disjunctive shared information between ontology concepts: application to Gene Ontology. Journal of Biomedical Semantics, 2011, 2, 5.	1.6	53
11	Finding genomic ontology terms in text using evidence content. BMC Bioinformatics, 2005, 6, S21.	2.6	48
12	GOAnnotator: linking protein GO annotations to evidence text. Journal of Biomedical Discovery and Collaboration, 2006, 1, 19.	2.0	47
13	Semantic Similarity for Automatic Classification of Chemical Compounds. PLoS Computational Biology, 2010, 6, e1000937.	3.2	44
14	BO-LSTM: classifying relations via long short-term memory networks along biomedical ontologies. BMC Bioinformatics, 2019, 20, 10.	2.6	44
15	The semantic web in translational medicine: current applications and future directions. Briefings in Bioinformatics, 2015, 16, 89-103.	6.5	37
16	Extracting microRNA-gene relations from biomedical literature using distant supervision. PLoS ONE, 2017, 12, e0171929.	2.5	33
17	Tackling the challenges of matching biomedical ontologies. Journal of Biomedical Semantics, 2018, 9, 4.	1.6	31
18	THE NEXT GENERATION OF SIMILARITY MEASURES THAT FULLY EXPLORE THE SEMANTICS IN BIOMEDICAL ONTOLOGIES. Journal of Bioinformatics and Computational Biology, 2013, 11, 1371001.	0.8	29

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19	The epidemiology ontology: an ontology for the semantic annotation of epidemiological resources. Journal of Biomedical Semantics, 2014, 5, 4.	1.6	29
20	Serum proteomics signature of Cystic Fibrosis patients: A complementary 2-DE and LC-MS/MS approach. Journal of Proteomics, 2011, 74, 110-126.	2.4	27
21	Predicting the Extension of Biomedical Ontologies. PLoS Computational Biology, 2012, 8, e1002630.	3.2	24
22	Ontology Alignment Repair through Modularization and Confidence-Based Heuristics. PLoS ONE, 2015, 10, e0144807.	2.5	24
23	Automatic Background Knowledge Selection for Matching Biomedical Ontologies. PLoS ONE, 2014, 9, e111226.	2.5	23
24	Text Mining for Bioinformatics Using Biomedical Literature. , 2019, , 602-611.		23
25	Exploiting disjointness axioms to improve semantic similarity measures. Bioinformatics, 2013, 29, 2781-2787.	4.1	22
26	MER: a shell script and annotation server for minimal named entity recognition and linking. Journal of Cheminformatics, 2018, 10, 58.	6.1	22
27	Identifying Human Phenotype Terms by Combining Machine Learning and Validation Rules. BioMed Research International, 2017, 2017, 1-8.	1.9	21
28	Molecular profiling of the human nasal epithelium: A proteomics approach. Journal of Proteomics, 2011, 75, 56-69.	2.4	19
29	A Silver Standard Corpus of Human Phenotype-Gene Relations. , 2019, , .		19
30	Semantic Similarity Definition. , 2019, , 870-876.		18
31	Chemical Entity Recognition and Resolution to ChEBI. , 2012, 2012, 1-9.		18
32	Improving chemical entity recognition through h-index based semantic similarity. Journal of Cheminformatics, 2015, 7, S13.	6.1	17
33	Enhancement of Chemical Entity Identification in Text Using Semantic Similarity Validation. PLoS ONE, 2013, 8, e62984.	2.5	17
34	Friendsourcing the unmet needs of people with dementia. , 2014, , .		15
35	On the usefulness of ontologies in epidemiology research and practice. Journal of Epidemiology and Community Health, 2013, 67, 385-388.	3.7	14
36	A High-Throughput Method to Detect Privacy-Sensitive Human Genomic Data. , 2015, , .		14

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37	Assessing Public Metabolomics Metadata, Towards Improving Quality. <i>Journal of Integrative Bioinformatics</i> , 2017, 14, .	1.5	13
38	Identification of biological mechanisms underlying a multidimensional ASD phenotype using machine learning. <i>Translational Psychiatry</i> , 2020, 10, 43.	4.8	13
39	LasigeBioTM at MEDIQA 2019: Biomedical Question Answering using Bidirectional Transformers and Named Entity Recognition. , 2019, , .		13
40	Application of Gene Ontology to Gene Identification. <i>Methods in Molecular Biology</i> , 2011, 760, 141-157.	0.9	12
41	Using Research Literature to Generate Datasets of Implicit Feedback for Recommending Scientific Items. <i>IEEE Access</i> , 2019, 7, 176668-176680.	4.2	12
42	Accurate filtering of privacy-sensitive information in raw genomic data. <i>Journal of Biomedical Informatics</i> , 2018, 82, 1-12.	4.3	11
43	Towards Annotating Potential Incoherences in BioPortal Mappings. <i>Lecture Notes in Computer Science</i> , 2014, , 17-32.	1.3	11
44	Identification of Chemical Entities in Patent Documents. <i>Lecture Notes in Computer Science</i> , 2009, , 942-949.	1.3	11
45	PPR-SSM: personalized PageRank and semantic similarity measures for entity linking. <i>BMC Bioinformatics</i> , 2019, 20, 534.	2.6	10
46	Witchesâ€™ broom resistant genotype CCN51 shows greater diversity of symbiont bacteria in its phylloplane than susceptible genotype catongo. <i>BMC Microbiology</i> , 2018, 18, 194.	3.3	9
47	Linking chemical and disease entities to ontologies by integrating PageRank with extracted relations from literature. <i>Journal of Cheminformatics</i> , 2020, 12, 57.	6.1	9
48	Classifying biological articles using web resources. , 2004, , .		8
49	Generating a Tolerogenic Cell Therapy Knowledge Graph from Literature. <i>Frontiers in Immunology</i> , 2017, 8, 1656.	4.8	8
50	DNA-SeAl: Sensitivity Levels to Optimize the Performance of Privacy-Preserving DNA Alignment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 907-915.	6.3	7
51	Text Mining for Building Biomedical Networks Using Cancer as a Case Study. <i>Biomolecules</i> , 2021, 11, 1430.	4.0	7
52	Whatâ€™s in a â€™nymâ€™? Synonyms in Biomedical Ontology Matching. <i>Lecture Notes in Computer Science</i> , 2013, , 526-541.	1.3	7
53	Identifying interactions between chemical entities in biomedical text. <i>Journal of Integrative Bioinformatics</i> , 2014, 11, 1-16.	1.5	6
54	Hybrid semantic recommender system for chemical compounds in large-scale datasets. <i>Journal of Cheminformatics</i> , 2021, 13, 15.	6.1	6

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55	BiOnt: Deep Learning Using Multiple Biomedical Ontologies for Relation Extraction. Lecture Notes in Computer Science, 2020, , 367-374.	1.3	6
56	Annotation extension through protein family annotation coherence metrics. Frontiers in Genetics, 2013, 4, 201.	2.3	5
57	Generating Biomedical Question Answering Corpora From Q&A Forums. IEEE Access, 2020, 8, 161042-161051.	4.2	5
58	Using Neural Networks for Relation Extraction from Biomedical Literature. Methods in Molecular Biology, 2021, 2190, 289-305.	0.9	5
59	Hybrid Semantic Recommender System for Chemical Compounds. Lecture Notes in Computer Science, 2020, , 94-101.	1.3	5
60	A hybrid approach toward biomedical relation extraction training corpora: combining distant supervision with crowdsourcing. Database: the Journal of Biological Databases and Curation, 2020, .	3.0	5
61	Measuring coherence between electronic and manual annotations in biological databases. , 2009, , .		4
62	Geographic signatures for semantic retrieval. , 2010, , .		4
63	Carbohydrate-Active Enzymes Database: Principles and Classification of Glycosyltransferases. , 0, , 89-118.		3
64	Tracking politics with POWER. Data Technologies and Applications, 2013, 47, 120-135.	0.8	3
65	Proposal of the First International Workshop on Semantic Indexing and Information Retrieval for Health from Heterogeneous Content Types and Languages (SIIRH). Lecture Notes in Computer Science, 2020, , 654-659.	1.3	3
66	GRYFUN: A Web Application for GO Term Annotation Visualization and Analysis in Protein Sets. PLoS ONE, 2015, 10, e0119631.	2.5	3
67	ULISBOA at SemEval-2016 Task 12: Extraction of temporal expressions, clinical events and relations using IBEnt. , 2016, , .		3
68	ULisboa: Identification and Classification of Medical Concepts. , 2014, , .		3
69	Improving accessibility and distinction between negative results in biomedical relation extraction. Genomics and Informatics, 2020, 18, e20.	0.8	3
70	DRecPy: A Python Framework for Developing Deep Learning-Based Recommenders. , 2020, , .		3
71	POWER - Politics Ontology for Web Entity Retrieval. Lecture Notes in Business Information Processing, 2011, , 489-500.	1.0	2
72	Enrichment analysis applied to disease prognosis. Journal of Biomedical Semantics, 2013, 4, 21.	1.6	2

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73	FunVar: A systematic pipeline to unravel the convergence patterns of genetic variants in ASD, a paradigmatic complex disease. <i>Journal of Biomedical Informatics</i> , 2019, 98, 103273.	4.3	2
74	Summary of Tutorials at The Web Conference 2021. , 2021, , .		2
75	Information Retrieval Using Machine Learning for Biomarker Curation in the Exposome-Explorer. <i>Frontiers in Research Metrics and Analytics</i> , 2021, 6, 689264.	1.9	2
76	COVID-19 recommender system based on an annotated multilingual corpus. <i>Genomics and Informatics</i> , 2021, 19, e24.	0.8	2
77	ECIR 2020 workshops. <i>ACM SIGIR Forum</i> , 2020, 54, 1-11.	0.5	2
78	MoRS at SemEval-2017 Task 3: Easy to use SVM in Ranking Tasks. , 2017, , .		2
79	Chemical Named Entity Recognition: Improving Recall Using a Comprehensive List of Lexical Features. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 253-260.	0.6	2
80	Identifying interactions between chemical entities in biomedical text. <i>Journal of Integrative Bioinformatics</i> , 2014, 11, 247.	1.5	2
81	NILINKER: Attention-based approach to NIL Entity Linking. <i>Journal of Biomedical Informatics</i> , 2022, 132, 104137.	4.3	2
82	Validating associations in biological databases. , 2006, , .		1
83	Identifying bioentity recognition errors of rule-based text-mining systems. , 2008, , .		1
84	Text Processing. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1137, 45-60.	1.6	1
85	Multi-domain semantic similarity in biomedical research. <i>BMC Bioinformatics</i> , 2019, 20, 246.	2.6	1
86	Toponym Disambiguation Using Ontology-Based Semantic Similarity. <i>Lecture Notes in Computer Science</i> , 2012, , 179-185.	1.3	1
87	How Can Photo Sharing Inspire Sharing Genomes?. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 74-82.	0.6	1
88	Cloud-Assisted Read Alignment and Privacy. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 220-227.	0.6	1
89	Metadata Analyser: Measuring Metadata Quality. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 197-204.	0.6	1
90	Resources. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1137, 9-15.	1.6	1

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91	COVID-19: A Semantic-Based Pipeline for Recommending Biomedical Entities. , 2020, , .		1
92	Functional coherence metrics in protein families. Journal of Biomedical Semantics, 2016, 7, 41.	1.6	0
93	Introduction. Advances in Experimental Medicine and Biology, 2019, 1137, 1-8.	1.6	0
94	Semantic Similarity in Cheminformatics. , 0, , .		0
95	Creating Recommender Systems Datasets in Scientific Fields. , 2021, , .		0
96	Mining BioLiterature. , 2006, , 283-295.		0
97	Verification of Uncurated Protein Annotations. , 2009, , 301-314.		0
98	Toward a Translational Medicine Approach for Hypertrophic Cardiomyopathy. Lecture Notes in Computer Science, 2012, , 151-165.	1.3	0
99	IIICE: Web Tool for Automatic Identification of Chemical Entities and Interactions. Lecture Notes in Computer Science, 2015, , 285-288.	1.3	0
100	Anthropometric Data Analytics: A Portuguese Case Study. Advances in Intelligent Systems and Computing, 2017, , 92-100.	0.6	0
101	Semantic Processing. Advances in Experimental Medicine and Biology, 2019, 1137, 61-91.	1.6	0
102	Data Retrieval. Advances in Experimental Medicine and Biology, 2019, 1137, 17-43.	1.6	0