

David Sanchez

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

3,105
citations

32
h-index

51
g-index

144
ext. papers

3,645
ext. citations

4.5
avg, IF

5.86
L-index

#	Paper	IF	Citations
137	Ontology-based semantic similarity: A new feature-based approach. <i>Expert Systems With Applications</i> , 2012 , 39, 7718-7728	7.8	239
136	Ontology-based information content computation. <i>Knowledge-Based Systems</i> , 2011 , 24, 297-303	7.3	168
135	An ontology-based measure to compute semantic similarity in biomedicine. <i>Journal of Biomedical Informatics</i> , 2011 , 44, 118-25	10.2	151
134	Agents applied in health care: A review. <i>International Journal of Medical Informatics</i> , 2010 , 79, 145-66	5.3	124
133	Learning non-taxonomic relationships from web documents for domain ontology construction. <i>Data and Knowledge Engineering</i> , 2008 , 64, 600-623	1.5	112
132	Semantic similarity estimation in the biomedical domain: an ontology-based information-theoretic perspective. <i>Journal of Biomedical Informatics</i> , 2011 , 44, 749-59	10.2	111
131	Enhancing data utility in differential privacy via microaggregation-based (k)-anonymity. <i>VLDB Journal</i> , 2014 , 23, 771-794	3.9	100
130	A framework for unifying ontology-based semantic similarity measures: a study in the biomedical domain. <i>Journal of Biomedical Informatics</i> , 2014 , 48, 38-53	10.2	90
129	Turist@: Agent-based personalised recommendation of tourist activities. <i>Expert Systems With Applications</i> , 2012 , 39, 7319-7329	7.8	76
128	Using ontologies for structuring organizational knowledge in Home Care assistance. <i>International Journal of Medical Informatics</i> , 2010 , 79, 370-87	5.3	69
127	Individual Differential Privacy: A Utility-Preserving Formulation of Differential Privacy Guarantees. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 1418-1429	8	63
126	Content annotation for the semantic web: an automatic web-based approach. <i>Knowledge and Information Systems</i> , 2011 , 27, 393-418	2.4	62
125	Ontology-driven web-based semantic similarity. <i>Journal of Intelligent Information Systems</i> , 2010 , 35, 383-413	6.1	61
124	t-Closeness through Microaggregation: Strict Privacy with Enhanced Utility Preservation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015 , 27, 3098-3110	4.2	59
123	A semantic similarity method based on information content exploiting multiple ontologies. <i>Expert Systems With Applications</i> , 2013 , 40, 1393-1399	7.8	55
122	Privacy-preserving cloud computing on sensitive data: A survey of methods, products and challenges. <i>Computer Communications</i> , 2019 , 140-141, 38-60	5.1	52
121	Agent-based execution of personalised home care treatments. <i>Applied Intelligence</i> , 2011 , 34, 155-180	4.9	50

120	A semantic framework to protect the privacy of electronic health records with non-numerical attributes. <i>Journal of Biomedical Informatics</i> , 2013 , 46, 294-303	10.2	49
119	A methodology to learn ontological attributes from the Web. <i>Data and Knowledge Engineering</i> , 2010 , 69, 573-597	1.5	47
118	Ontology-driven execution of clinical guidelines. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 107, 122-39	6.9	45
117	Anonymization of nominal data based on semantic marginality. <i>Information Sciences</i> , 2013 , 242, 35-48	7.7	44
116	Utility-preserving differentially private data releases via individual ranking microaggregation. <i>Information Fusion</i> , 2016 , 30, 1-14	16.7	40
115	Knowledge-based scheme to create privacy-preserving but semantically-related queries for web search engines. <i>Information Sciences</i> , 2013 , 218, 17-30	7.7	39
114	Organizational structures supported by agent-oriented methodologies. <i>Journal of Systems and Software</i> , 2011 , 84, 169-184	3.3	39
113	Co-utile P2P ridesharing via decentralization and reputation management. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 73, 147-166	8.4	37
112	Enabling semantic similarity estimation across multiple ontologies: an evaluation in the biomedical domain. <i>Journal of Biomedical Informatics</i> , 2012 , 45, 141-55	10.2	36
111	Semantic adaptive microaggregation of categorical microdata. <i>Computers and Security</i> , 2012 , 31, 653-674	4.9	36
110	Automatic General-Purpose Sanitization of Textual Documents. <i>IEEE Transactions on Information Forensics and Security</i> , 2013 , 8, 853-862	8	35
109	A New Model to Compute the Information Content of Concepts from Taxonomic Knowledge. <i>International Journal on Semantic Web and Information Systems</i> , 2012 , 8, 34-50	1.4	35
108	Semantic similarity estimation from multiple ontologies. <i>Applied Intelligence</i> , 2013 , 38, 29-44	4.9	34
107	C-sanitized: A privacy model for document redaction and sanitization. <i>Journal of the Association for Information Science and Technology</i> , 2016 , 67, 148-163	2.7	33
106	Automatic extraction of acronym definitions from the Web. <i>Applied Intelligence</i> , 2011 , 34, 311-327	4.9	32
105	An automatic approach for ontology-based feature extraction from heterogeneous textual resources. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1092-1106	7.2	30
104	Preventing automatic user profiling in Web 2.0 applications. <i>Knowledge-Based Systems</i> , 2012 , 36, 191-205	5.3	28
103	Utility preserving query log anonymization via semantic microaggregation. <i>Information Sciences</i> , 2013 , 242, 49-63	7.7	27

102	Semantically-grounded construction of centroids for datasets with textual attributes. <i>Knowledge-Based Systems</i> , 2012 , 35, 160-172	7.3	27
101	Co-Utility: Self-Enforcing protocols for the mutual benefit of participants. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 59, 148-158	7.2	26
100	Privacy protection of textual attributes through a semantic-based masking method. <i>Information Fusion</i> , 2012 , 13, 304-314	16.7	25
99	An information theoretic approach to improve semantic similarity assessments across multiple ontologies. <i>Information Sciences</i> , 2014 , 283, 197-210	7.7	24
98	Utility-preserving privacy protection of textual healthcare documents. <i>Journal of Biomedical Informatics</i> , 2014 , 52, 189-98	10.2	23
97	Semantic variance: An intuitive measure for ontology accuracy evaluation. <i>Engineering Applications of Artificial Intelligence</i> , 2015 , 39, 89-99	7.2	22
96	Privacy-preserving data outsourcing in the cloud via semantic data splitting. <i>Computer Communications</i> , 2017 , 110, 187-201	5.1	22
95	Self-enforcing protocols via co-utile reputation management. <i>Information Sciences</i> , 2016 , 367-368, 159-175	7.5	21
94	Minimizing the disclosure risk of semantic correlations in document sanitization. <i>Information Sciences</i> , 2013 , 249, 110-123	7.7	21
93	Towards the estimation of feature-based semantic similarity using multiple ontologies. <i>Knowledge-Based Systems</i> , 2014 , 55, 101-113	7.3	20
92	Learning relation axioms from text: An automatic Web-based approach. <i>Expert Systems With Applications</i> , 2012 , 39, 5792-5805	7.8	20
91	Secure and privacy-preserving orchestration and delivery of fog-enabled IoT services. <i>Ad Hoc Networks</i> , 2019 , 82, 113-125	4.8	19
90	Toward sensitive document release with privacy guarantees. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 59, 23-34	7.2	18
89	Co-utility. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 105-110	4	18
88	Utility-preserving sanitization of semantically correlated terms in textual documents. <i>Information Sciences</i> , 2014 , 279, 77-93	7.7	17
87	. <i>IEEE Intelligent Systems</i> , 2006 , 21, 63-67	4.2	17
86	A methodology for knowledge acquisition from the web. <i>International Journal of Knowledge-Based and Intelligent Engineering Systems</i> , 2006 , 10, 453-475	0.5	17
85	Machine learning explainability via microaggregation and shallow decision trees. <i>Knowledge-Based Systems</i> , 2020 , 194, 105532	7.3	16

84	Comment on "Unique in the shopping mall: On the reidentifiability of credit card metadata". <i>Science</i> , 2016 , 351, 1274	33.3	16
83	Improving the Utility of Differentially Private Data Releases via k-Anonymity 2013 ,		16
82	Utility-preserving privacy protection of nominal data sets via semantic rank swapping. <i>Information Fusion</i> , 2019 , 45, 282-295	16.7	16
81	The limits of differential privacy (and its misuse in data release and machine learning). <i>Communications of the ACM</i> , 2021 , 64, 33-35	2.5	16
80	Agent-based platform to support the execution of parallel tasks. <i>Expert Systems With Applications</i> , 2011 , 38, 6644-6656	7.8	15
79	A co-utility approach to the mesh economy: the crowd-based business model. <i>Review of Managerial Science</i> , 2017 , 11, 411-442	3.9	14
78	Detecting Sensitive Information from Textual Documents: An Information-Theoretic Approach. <i>Lecture Notes in Computer Science</i> , 2012 , 173-184	0.9	13
77	Survey and evaluation of web search engine hit counts as research tools in computational linguistics. <i>Information Systems</i> , 2018 , 73, 50-60	2.7	12
76	Database Anonymization: Privacy Models, Data Utility, and Microaggregation-based Inter-model Connections. <i>Synthesis Lectures on Information Security Privacy and Trust</i> , 2016 , 8, 1-136	1	12
75	Profiling social networks to provide useful and privacy-preserving web search. <i>Journal of the Association for Information Science and Technology</i> , 2014 , 65, 2444-2458	2.7	12
74	Privacy-preserving and advertising-friendly web surfing. <i>Computer Communications</i> , 2018 , 130, 113-123	5.1	12
73	Privacy-driven access control in social networks by means of automatic semantic annotation. <i>Computer Communications</i> , 2016 , 76, 12-25	5.1	11
72	HeCaSe2: A Multi-agent Ontology-Driven Guideline Enactment Engine. <i>Lecture Notes in Computer Science</i> , 2007 , 322-324	0.9	11
71	Personalized privacy in open data sharing scenarios. <i>Online Information Review</i> , 2017 , 41, 298-310	2	10
70	Automatic Generation of Taxonomies from the WWW. <i>Lecture Notes in Computer Science</i> , 2004 , 208-219	0.9	10
69	A semantic framework for noise addition with nominal data. <i>Knowledge-Based Systems</i> , 2017 , 122, 103-118	1.8	9
68	Secure monitoring in IoT-based services via fog orchestration. <i>Future Generation Computer Systems</i> , 2020 , 107, 443-457	7.5	8
67	Knowledge-driven delivery of home care services. <i>Journal of Intelligent Information Systems</i> , 2012 , 38, 95-130	2.1	8

66	Discovery of Relation Axioms from the Web. <i>Lecture Notes in Computer Science</i> , 2010 , 222-233	0.9	8
65	Enforcing transparent access to private content in social networks by means of automatic sanitization. <i>Expert Systems With Applications</i> , 2016 , 62, 148-160	7.8	8
64	Automatic Anonymization of Textual Documents: Detecting Sensitive Information via Word Embeddings 2019 ,		8
63	Knowledge Exploitation from the Web. <i>Lecture Notes in Computer Science</i> , 2004 , 175-185	0.9	7
62	Ontology-Based Anonymization of Categorical Values. <i>Lecture Notes in Computer Science</i> , 2010 , 243-254	0.9	7
61	2016 ,		7
60	Leveraging synonymy and polysemy to improve semantic similarity assessments based on intrinsic information content. <i>Artificial Intelligence Review</i> , 2020 , 53, 2023-2041	9.7	7
59	A large reproducible benchmark of ontology-based methods and word embeddings for word similarity. <i>Information Systems</i> , 2021 , 96, 101636	2.7	7
58	Improving the Utility of Differential Privacy via Univariate Microaggregation. <i>Lecture Notes in Computer Science</i> , 2014 , 130-142	0.9	6
57	Bringing taxonomic structure to large digital libraries. <i>International Journal of Metadata, Semantics and Ontologies</i> , 2007 , 2, 112	0.6	6
56	A Review on Semantic Similarity 2015 , 7575-7583		6
55	Learning Medical Ontologies from the Web 2007 , 32-45		6
54	Towards k-Anonymous Non-numerical Data via Semantic Resampling. <i>Communications in Computer and Information Science</i> , 2012 , 519-528	0.3	6
53	t-closeness through microaggregation: Strict privacy with enhanced utility preservation 2016 ,		5
52	Semantic Noise: Privacy-Protection of Nominal Microdata through Uncorrelated Noise Addition 2015 ,		5
51	REMOVED: Enforcing transparent access to private content in social networks by means of automatic sanitization. <i>Expert Systems With Applications</i> , 2015 , 42, 9366-9378	7.8	5
50	A Semantic Approach for Ontology Evaluation 2014 ,		5
49	Evaluating the Suitability of Web Search Engines as Proxies for Knowledge Discovery from the Web. <i>Procedia Computer Science</i> , 2016 , 96, 169-178	1.6	5

48	Privacy-Preserving Cloud-Based Statistical Analyses on Sensitive Categorical Data. <i>Lecture Notes in Computer Science</i> , 2016 , 227-238	0.9	4
47	Co-utility: Conciliating Individual Freedom and Common Good in the Crowd Based Business Model 2015 ,		4
46	Computing Knowledge-Based Semantic Similarity from the Web: An Application to the Biomedical Domain. <i>Lecture Notes in Computer Science</i> , 2009 , 17-28	0.9	4
45	KeyNet: An Asymmetric Key-Style Framework for Watermarking Deep Learning Models. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 999	2.6	4
44	Integrated Agent-Based Approach for Ontology-Driven Web Filtering. <i>Lecture Notes in Computer Science</i> , 2006 , 758-765	0.9	4
43	Database Privacy. <i>Computer Communications and Networks</i> , 2015 , 9-35	0.5	3
42	Co-utile disclosure of private data in social networks. <i>Information Sciences</i> , 2018 , 441, 50-65	7.7	3
41	Providing useful and private Web search by means of social network profiling 2013 ,		3
40	An Ontology-Driven Agent-Based Clinical Guideline Execution Engine. <i>Lecture Notes in Computer Science</i> , 2007 , 49-53	0.9	3
39	Using Profiling Techniques to Protect the User's Privacy in Twitter. <i>Lecture Notes in Computer Science</i> , 2012 , 161-172	0.9	3
38	Improving Semantic Relatedness Assessments: Ontologies Meet Textual Corpora. <i>Procedia Computer Science</i> , 2016 , 96, 365-374	1.6	3
37	Automatic Assessment of Privacy Policies under the GDPR. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1762.6	2.6	3
36	Achieving security and privacy in federated learning systems: Survey, research challenges and future directions. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 106, 104468	7.2	3
35	Discovering Non-taxonomic Relations from the Web. <i>Lecture Notes in Computer Science</i> , 2006 , 629-636	0.9	3
34	Semantic Disclosure Control: semantics meets data privacy. <i>Online Information Review</i> , 2018 , 42, 290-303		2
33	µ-ANT: semantic microaggregation-based anonymization tool. <i>Bioinformatics</i> , 2020 , 36, 1652-1653	7.2	2
32	Privacy protection of textual medical documents 2014 ,		2
31	Semantic Anonymisation of Categorical Datasets. <i>Studies in Computational Intelligence</i> , 2015 , 111-128	0.8	2

30	Efficient Detection of Byzantine Attacks in Federated Learning Using Last Layer Biases. <i>Lecture Notes in Computer Science</i> , 2020 , 154-165	0.9	2
29	Explaining Misclassification and Attacks in Deep Learning via Random Forests. <i>Lecture Notes in Computer Science</i> , 2020 , 273-285	0.9	2
28	Home Care Personalisation with Individual Intervention Plans. <i>Lecture Notes in Computer Science</i> , 2009 , 134-151	0.9	2
27	Distance Computation between Two Private Preference Functions. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 460-470	0.5	2
26	Agent Technology and Healthcare: Possibilities, Challenges and Examples of Application. <i>Studies in Computational Intelligence</i> , 2010 , 25-48	0.8	2
25	2020 ,		2
24	Privacy protection of user profiles in online search via semantic randomization. <i>Knowledge and Information Systems</i> , 2021 , 63, 2455-2477	2.4	2
23	. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	2
22	Perturbative Data Protection of Multivariate Nominal Datasets. <i>Lecture Notes in Computer Science</i> , 2016 , 94-106	0.9	1
21	Exploiting Taxonomical Knowledge to Compute Semantic Similarity: An Evaluation in the Biomedical Domain. <i>Lecture Notes in Computer Science</i> , 2010 , 274-283	0.9	1
20	An Agent-Based Knowledge Acquisition Platform. <i>Lecture Notes in Computer Science</i> , 2005 , 118-129	0.9	1
19	Web Mining Techniques for Automatic Discovery of Medical Knowledge. <i>Lecture Notes in Computer Science</i> , 2005 , 409-413	0.9	1
18	Problems in the Undertakings of the Collaborative Economy: Co-utile Solutions. <i>Studies in Systems, Decision and Control</i> , 2018 , 201-216	0.8	1
17	Creating Topic Hierarchies for Large Medical Libraries. <i>Lecture Notes in Computer Science</i> , 2010 , 1-13	0.9	1
16	Contributions on Semantic Similarity and Its Applications to Data Privacy. <i>Studies in Computational Intelligence</i> , 2015 , 129-149	0.8	1
15	Co-utile Ridesharing. <i>Studies in Systems, Decision and Control</i> , 2018 , 117-138	0.8	1
14	Co-utile P2P Anonymous Keyword Search. <i>Studies in Systems, Decision and Control</i> , 2018 , 51-70	0.8	1
13	General Purpose Agent-Based Parallel Computing. <i>Lecture Notes in Computer Science</i> , 2009 , 232-239	0.9	1

12	Anonymizing Categorical Data with a Recoding Method Based on Semantic Similarity. <i>Communications in Computer and Information Science</i> , 2010 , 602-611	0.3	1
11	Explaining Image Misclassification in Deep Learning via Adversarial Examples. <i>Lecture Notes in Computer Science</i> , 2021 , 323-334	0.9	1
10	A semantic-preserving differentially private method for releasing query logs. <i>Information Sciences</i> , 2018 , 460-461, 223-237	7.7	1
9	Explaining predictions and attacks in federated learning via random forests. <i>Applied Intelligence</i> , 1	4.9	0
8	Diagnosis and Treatment of Malignant Pleural Effusion 2012 , 23-55		
7	Comprehensive Simulation of a Software Project Throughout Several Subjects. <i>Revista Iberoamericana De Tecnologias Del Aprendizaje</i> , 2020 , 15, 262-271	1.2	
6	Incentive-Based Co-utility: Co-utile Reputation Management. <i>Studies in Systems, Decision and Control</i> , 2018 , 17-32	0.8	
5	Co-utility: Designing Self-enforcing and Mutually Beneficial Protocols. <i>Studies in Systems, Decision and Control</i> , 2018 , 3-15	0.8	
4	The K4Care Platform Design and Implementation 2010 , 370-389		
3	Semantic Web Search System Founded on Case-Based Reasoning and Ontology Learning. <i>Communications in Computer and Information Science</i> , 2013 , 72-86	0.3	
2	Outsourcing analyses on privacy-protected multivariate categorical data stored in untrusted clouds. <i>Knowledge and Information Systems</i> , 2020 , 62, 2301-2326	2.4	
1	Privacy-Preserving Orchestrated Web Service Composition with Untrusted Brokers. <i>International Journal of Information Technology and Web Engineering</i> , 2018 , 13, 78-103	1.3	