

# David Sanchez

## List of Publications by Year in Descending Order

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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	Privacy protection of user profiles in online search via semantic randomization. <i>Knowledge and Information Systems</i> , <b>2021</b> , 63, 2455-2477	2.4	2
136	A large reproducible benchmark of ontology-based methods and word embeddings for word similarity. <i>Information Systems</i> , <b>2021</b> , 96, 101636	2.7	7
135	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	2
134	Explaining Image Misclassification in Deep Learning via Adversarial Examples. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 323-334	0.9	1
133	KeyNet: An Asymmetric Key-Style Framework for Watermarking Deep Learning Models. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 999	2.6	4
132	Automatic Assessment of Privacy Policies under the GDPR. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1762.6	2.6	3
131	The limits of differential privacy (and its misuse in data release and machine learning). <i>Communications of the ACM</i> , <b>2021</b> , 64, 33-35	2.5	16
130	Achieving security and privacy in federated learning systems: Survey, research challenges and future directions. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 106, 104468	7.2	3
129	Secure monitoring in IoT-based services via fog orchestration. <i>Future Generation Computer Systems</i> , <b>2020</b> , 107, 443-457	7.5	8
128	Machine learning explainability via microaggregation and shallow decision trees. <i>Knowledge-Based Systems</i> , <b>2020</b> , 194, 105532	7.3	16
127	µ-ANT: semantic microaggregation-based anonymization tool. <i>Bioinformatics</i> , <b>2020</b> , 36, 1652-1653	7.2	2
126	Comprehensive Simulation of a Software Project Throughout Several Subjects. <i>Revista Iberoamericana De Tecnologias Del Aprendizaje</i> , <b>2020</b> , 15, 262-271	1.2	
125	Efficient Detection of Byzantine Attacks in Federated Learning Using Last Layer Biases. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 154-165	0.9	2
124	Explaining Misclassification and Attacks in Deep Learning via Random Forests. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 273-285	0.9	2
123	Outsourcing analyses on privacy-protected multivariate categorical data stored in untrusted clouds. <i>Knowledge and Information Systems</i> , <b>2020</b> , 62, 2301-2326	2.4	
122	<b>2020</b> ,		2
121	Leveraging synonymy and polysemy to improve semantic similarity assessments based on intrinsic information content. <i>Artificial Intelligence Review</i> , <b>2020</b> , 53, 2023-2041	9.7	7

120	Privacy-preserving cloud computing on sensitive data: A survey of methods, products and challenges. <i>Computer Communications</i> , <b>2019</b> , 140-141, 38-60	5.1	52
119	Secure and privacy-preserving orchestration and delivery of fog-enabled IoT services. <i>Ad Hoc Networks</i> , <b>2019</b> , 82, 113-125	4.8	19
118	Automatic Anonymization of Textual Documents: Detecting Sensitive Information via Word Embeddings <b>2019</b> ,		8
117	Utility-preserving privacy protection of nominal data sets via semantic rank swapping. <i>Information Fusion</i> , <b>2019</b> , 45, 282-295	16.7	16
116	Semantic Disclosure Control: semantics meets data privacy. <i>Online Information Review</i> , <b>2018</b> , 42, 290-303		2
115	Co-utile disclosure of private data in social networks. <i>Information Sciences</i> , <b>2018</b> , 441, 50-65	7.7	3
114	Survey and evaluation of web search engine hit counts as research tools in computational linguistics. <i>Information Systems</i> , <b>2018</b> , 73, 50-60	2.7	12
113	Problems in the Undertakings of the Collaborative Economy: Co-utile Solutions. <i>Studies in Systems, Decision and Control</i> , <b>2018</b> , 201-216	0.8	1
112	Incentive-Based Co-utility: Co-utile Reputation Management. <i>Studies in Systems, Decision and Control</i> , <b>2018</b> , 17-32	0.8	
111	Co-utile Ridesharing. <i>Studies in Systems, Decision and Control</i> , <b>2018</b> , 117-138	0.8	1
110	Co-utility: Designing Self-enforcing and Mutually Beneficial Protocols. <i>Studies in Systems, Decision and Control</i> , <b>2018</b> , 3-15	0.8	
109	Co-utile P2P Anonymous Keyword Search. <i>Studies in Systems, Decision and Control</i> , <b>2018</b> , 51-70	0.8	1
108	Privacy-Preserving Orchestrated Web Service Composition with Untrusted Brokers. <i>International Journal of Information Technology and Web Engineering</i> , <b>2018</b> , 13, 78-103	1.3	
107	Privacy-preserving and advertising-friendly web surfing. <i>Computer Communications</i> , <b>2018</b> , 130, 113-123	5.1	12
106	A semantic-preserving differentially private method for releasing query logs. <i>Information Sciences</i> , <b>2018</b> , 460-461, 223-237	7.7	1
105	A co-utility approach to the mesh economy: the crowd-based business model. <i>Review of Managerial Science</i> , <b>2017</b> , 11, 411-442	3.9	14
104	A semantic framework for noise addition with nominal data. <i>Knowledge-Based Systems</i> , <b>2017</b> , 122, 103-118		9
103	Co-Utility: Self-Enforcing protocols for the mutual benefit of participants. <i>Engineering Applications of Artificial Intelligence</i> , <b>2017</b> , 59, 148-158	7.2	26

102	Individual Differential Privacy: A Utility-Preserving Formulation of Differential Privacy Guarantees. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2017</b> , 12, 1418-1429	8	63
101	Personalized privacy in open data sharing scenarios. <i>Online Information Review</i> , <b>2017</b> , 41, 298-310	2	10
100	Toward sensitive document release with privacy guarantees. <i>Engineering Applications of Artificial Intelligence</i> , <b>2017</b> , 59, 23-34	7.2	18
99	Privacy-preserving data outsourcing in the cloud via semantic data splitting. <i>Computer Communications</i> , <b>2017</b> , 110, 187-201	5.1	22
98	Co-utile P2P ridesharing via decentralization and reputation management. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2016</b> , 73, 147-166	8.4	37
97	Perturbative Data Protection of Multivariate Nominal Datasets. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 94-106	0.9	1
96	Privacy-Preserving Cloud-Based Statistical Analyses on Sensitive Categorical Data. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 227-238	0.9	4
95	Self-enforcing protocols via co-utile reputation management. <i>Information Sciences</i> , <b>2016</b> , 367-368, 159-175		21
94	t-closeness through microaggregation: Strict privacy with enhanced utility preservation <b>2016</b> ,		5
93	Privacy-driven access control in social networks by means of automatic semantic annotation. <i>Computer Communications</i> , <b>2016</b> , 76, 12-25	5.1	11
92	Database Anonymization: Privacy Models, Data Utility, and Microaggregation-based Inter-model Connections. <i>Synthesis Lectures on Information Security Privacy and Trust</i> , <b>2016</b> , 8, 1-136	1	12
91	Comment on "Unique in the shopping mall: On the reidentifiability of credit card metadata". <i>Science</i> , <b>2016</b> , 351, 1274	33.3	16
90	C-sanitized: A privacy model for document redaction and sanitization. <i>Journal of the Association for Information Science and Technology</i> , <b>2016</b> , 67, 148-163	2.7	33
89	Co-utility. <i>Progress in Artificial Intelligence</i> , <b>2016</b> , 5, 105-110	4	18
88	Utility-preserving differentially private data releases via individual ranking microaggregation. <i>Information Fusion</i> , <b>2016</b> , 30, 1-14	16.7	40
87	<b>2016</b> ,		7
86	Evaluating the Suitability of Web Search Engines as Proxies for Knowledge Discovery from the Web. <i>Procedia Computer Science</i> , <b>2016</b> , 96, 169-178	1.6	5
85	Improving Semantic Relatedness Assessments: Ontologies Meet Textual Corpora. <i>Procedia Computer Science</i> , <b>2016</b> , 96, 365-374	1.6	3

84	Enforcing transparent access to private content in social networks by means of automatic sanitization. <i>Expert Systems With Applications</i> , <b>2016</b> , 62, 148-160	7.8	8
83	Database Privacy. <i>Computer Communications and Networks</i> , <b>2015</b> , 9-35	0.5	3
82	Semantic variance: An intuitive measure for ontology accuracy evaluation. <i>Engineering Applications of Artificial Intelligence</i> , <b>2015</b> , 39, 89-99	7.2	22
81	t-Closeness through Microaggregation: Strict Privacy with Enhanced Utility Preservation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2015</b> , 27, 3098-3110	4.2	59
80	Semantic Noise: Privacy-Protection of Nominal Microdata through Uncorrelated Noise Addition <b>2015</b> ,		5
79	Co-utility: Conciliating Individual Freedom and Common Good in the Crowd Based Business Model <b>2015</b> ,		4
78	REMOVED: Enforcing transparent access to private content in social networks by means of automatic sanitization. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 9366-9378	7.8	5
77	Semantic Anonymisation of Categorical Datasets. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 111-128	0.8	2
76	A Review on Semantic Similarity <b>2015</b> , 7575-7583		6
75	Contributions on Semantic Similarity and Its Applications to Data Privacy. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 129-149	0.8	1
74	Enhancing data utility in differential privacy via microaggregation-based (k)-anonymity. <i>VLDB Journal</i> , <b>2014</b> , 23, 771-794	3.9	100
73	A framework for unifying ontology-based semantic similarity measures: a study in the biomedical domain. <i>Journal of Biomedical Informatics</i> , <b>2014</b> , 48, 38-53	10.2	90
72	Towards the estimation of feature-based semantic similarity using multiple ontologies. <i>Knowledge-Based Systems</i> , <b>2014</b> , 55, 101-113	7.3	20
71	Privacy protection of textual medical documents <b>2014</b> ,		2
70	An information theoretic approach to improve semantic similarity assessments across multiple ontologies. <i>Information Sciences</i> , <b>2014</b> , 283, 197-210	7.7	24
69	Improving the Utility of Differential Privacy via Univariate Microaggregation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 130-142	0.9	6
68	A Semantic Approach for Ontology Evaluation <b>2014</b> ,		5
67	Profiling social networks to provide useful and privacy-preserving web search. <i>Journal of the Association for Information Science and Technology</i> , <b>2014</b> , 65, 2444-2458	2.7	12

66	Utility-preserving privacy protection of textual healthcare documents. <i>Journal of Biomedical Informatics</i> , <b>2014</b> , 52, 189-98	10.2	23
65	Utility-preserving sanitization of semantically correlated terms in textual documents. <i>Information Sciences</i> , <b>2014</b> , 279, 77-93	7.7	17
64	Distance Computation between Two Private Preference Functions. <i>IFIP Advances in Information and Communication Technology</i> , <b>2014</b> , 460-470	0.5	2
63	A semantic framework to protect the privacy of electronic health records with non-numerical attributes. <i>Journal of Biomedical Informatics</i> , <b>2013</b> , 46, 294-303	10.2	49
62	Anonymization of nominal data based on semantic marginality. <i>Information Sciences</i> , <b>2013</b> , 242, 35-48	7.7	44
61	Improving the Utility of Differentially Private Data Releases via k-Anonymity <b>2013</b> ,		16
60	A semantic similarity method based on information content exploiting multiple ontologies. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1393-1399	7.8	55
59	An automatic approach for ontology-based feature extraction from heterogeneous textual resources. <i>Engineering Applications of Artificial Intelligence</i> , <b>2013</b> , 26, 1092-1106	7.2	30
58	Knowledge-based scheme to create privacy-preserving but semantically-related queries for web search engines. <i>Information Sciences</i> , <b>2013</b> , 218, 17-30	7.7	39
57	Providing useful and private Web search by means of social network profiling <b>2013</b> ,		3
56	Automatic General-Purpose Sanitization of Textual Documents. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2013</b> , 8, 853-862	8	35
55	Semantic similarity estimation from multiple ontologies. <i>Applied Intelligence</i> , <b>2013</b> , 38, 29-44	4.9	34
54	Minimizing the disclosure risk of semantic correlations in document sanitization. <i>Information Sciences</i> , <b>2013</b> , 249, 110-123	7.7	21
53	Utility preserving query log anonymization via semantic microaggregation. <i>Information Sciences</i> , <b>2013</b> , 242, 49-63	7.7	27
52	Semantic Web Search System Founded on Case-Based Reasoning and Ontology Learning. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 72-86	0.3	
51	Privacy protection of textual attributes through a semantic-based masking method. <i>Information Fusion</i> , <b>2012</b> , 13, 304-314	16.7	25
50	Enabling semantic similarity estimation across multiple ontologies: an evaluation in the biomedical domain. <i>Journal of Biomedical Informatics</i> , <b>2012</b> , 45, 141-55	10.2	36
49	Learning relation axioms from text: An automatic Web-based approach. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 5792-5805	7.8	20

48	Ontology-based semantic similarity: A new feature-based approach. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 7718-7728	7.8	239
47	Turist@: Agent-based personalised recommendation of tourist activities. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 7319-7329	7.8	76
46	Knowledge-driven delivery of home care services. <i>Journal of Intelligent Information Systems</i> , <b>2012</b> , 38, 95-130	2.1	8
45	Semantic adaptive microaggregation of categorical microdata. <i>Computers and Security</i> , <b>2012</b> , 31, 653-672	4.9	36
44	Ontology-driven execution of clinical guidelines. <i>Computer Methods and Programs in Biomedicine</i> , <b>2012</b> , 107, 122-39	6.9	45
43	Semantically-grounded construction of centroids for datasets with textual attributes. <i>Knowledge-Based Systems</i> , <b>2012</b> , 35, 160-172	7.3	27
42	Preventing automatic user profiling in Web 2.0 applications. <i>Knowledge-Based Systems</i> , <b>2012</b> , 36, 191-205	5.3	28
41	A New Model to Compute the Information Content of Concepts from Taxonomic Knowledge. <i>International Journal on Semantic Web and Information Systems</i> , <b>2012</b> , 8, 34-50	1.4	35
40	Diagnosis and Treatment of Malignant Pleural Effusion <b>2012</b> , 23-55		
39	Towards k-Anonymous Non-numerical Data via Semantic Resampling. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 519-528	0.3	6
38	Using Profiling Techniques to Protect the User's Privacy in Twitter. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 161-172	0.9	3
37	Detecting Sensitive Information from Textual Documents: An Information-Theoretic Approach. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 173-184	0.9	13
36	An ontology-based measure to compute semantic similarity in biomedicine. <i>Journal of Biomedical Informatics</i> , <b>2011</b> , 44, 118-25	10.2	151
35	Semantic similarity estimation in the biomedical domain: an ontology-based information-theoretic perspective. <i>Journal of Biomedical Informatics</i> , <b>2011</b> , 44, 749-59	10.2	111
34	Content annotation for the semantic web: an automatic web-based approach. <i>Knowledge and Information Systems</i> , <b>2011</b> , 27, 393-418	2.4	62
33	Agent-based execution of personalised home care treatments. <i>Applied Intelligence</i> , <b>2011</b> , 34, 155-180	4.9	50
32	Automatic extraction of acronym definitions from the Web. <i>Applied Intelligence</i> , <b>2011</b> , 34, 311-327	4.9	32
31	Agent-based platform to support the execution of parallel tasks. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 6644-6656	7.8	15

30	Organizational structures supported by agent-oriented methodologies. <i>Journal of Systems and Software</i> , <b>2011</b> , 84, 169-184	3.3	39
29	Ontology-based information content computation. <i>Knowledge-Based Systems</i> , <b>2011</b> , 24, 297-303	7.3	168
28	Exploiting Taxonomical Knowledge to Compute Semantic Similarity: An Evaluation in the Biomedical Domain. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 274-283	0.9	1
27	Ontology-driven web-based semantic similarity. <i>Journal of Intelligent Information Systems</i> , <b>2010</b> , 35, 383-413	4.3	61
26	Agents applied in health care: A review. <i>International Journal of Medical Informatics</i> , <b>2010</b> , 79, 145-66	5.3	124
25	Using ontologies for structuring organizational knowledge in Home Care assistance. <i>International Journal of Medical Informatics</i> , <b>2010</b> , 79, 370-87	5.3	69
24	A methodology to learn ontological attributes from the Web. <i>Data and Knowledge Engineering</i> , <b>2010</b> , 69, 573-597	1.5	47
23	Creating Topic Hierarchies for Large Medical Libraries. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 1-13	0.9	1
22	Discovery of Relation Axioms from the Web. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 222-233	0.9	8
21	Ontology-Based Anonymization of Categorical Values. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 243-254	0.9	7
20	Agent Technology and Healthcare: Possibilities, Challenges and Examples of Application. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 25-48	0.8	2
19	The K4Care Platform Design and Implementation <b>2010</b> , 370-389		
18	Anonymizing Categorical Data with a Recoding Method Based on Semantic Similarity. <i>Communications in Computer and Information Science</i> , <b>2010</b> , 602-611	0.3	1
17	Home Care Personalisation with Individual Intervention Plans. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 134-151	0.9	2
16	Computing Knowledge-Based Semantic Similarity from the Web: An Application to the Biomedical Domain. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 17-28	0.9	4
15	General Purpose Agent-Based Parallel Computing. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 232-239	0.9	1
14	Learning non-taxonomic relationships from web documents for domain ontology construction. <i>Data and Knowledge Engineering</i> , <b>2008</b> , 64, 600-623	1.5	112
13	Bringing taxonomic structure to large digital libraries. <i>International Journal of Metadata, Semantics and Ontologies</i> , <b>2007</b> , 2, 112	0.6	6



12	An Ontology-Driven Agent-Based Clinical Guideline Execution Engine. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 49-53	0.9	3
11	HeCaSe2: A Multi-agent Ontology-Driven Guideline Enactment Engine. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 322-324	0.9	11
10	Learning Medical Ontologies from the Web <b>2007</b> , 32-45		6
9	. <i>IEEE Intelligent Systems</i> , <b>2006</b> , 21, 63-67	4.2	17
8	A methodology for knowledge acquisition from the web. <i>International Journal of Knowledge-Based and Intelligent Engineering Systems</i> , <b>2006</b> , 10, 453-475	0.5	17
7	Discovering Non-taxonomic Relations from the Web. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 629-636	0.9	3
6	Integrated Agent-Based Approach for Ontology-Driven Web Filtering. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 758-765	0.9	4
5	An Agent-Based Knowledge Acquisition Platform. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 118-129	0.9	1
4	Web Mining Techniques for Automatic Discovery of Medical Knowledge. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 409-413	0.9	1
3	Knowledge Exploitation from the Web. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 175-185	0.9	7
2	Automatic Generation of Taxonomies from the WWW. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 208-219	0.9	10
1	Explaining predictions and attacks in federated learning via random forests. <i>Applied Intelligence</i> , <b>1</b>	4.9	0