RaÃºl GarcÃ-a-Castro

List of Publications by Year
in descending order

45 papers	1,886 citations	567281 15 h-index	345221 36 g-index
48 all docs	48 docs citations	48 times ranked	1924 citing authors

#	Article	IF	Citations
1	The SSN ontology of the W3C semantic sensor network incubator group. Web Semantics, 2012, 17, 25-32.	2.9	1,070
2	The modular SSN ontology: A joint W3C and OGC standard specifying the semantics of sensors, observations, sampling, and actuation. Semantic Web, 2018, 10, 9-32.	1.9	149
3	Five challenges for the Semantic Sensor Web. Semantic Web, 2010, 1, 121-125.	1.9	67
4	Identifying stakeholders and key performance indicators for district and building energy performance analysis. Energy and Buildings, 2017, 155, 1-15.	6.7	56
5	Guidelines for Linked Data generation and publication: An example in building energy consumption. Automation in Construction, 2015, 57, 178-187.	9.8	48
6	A comprehensive quality model for Linked Data. Semantic Web, 2017, 9, 3-24.	1.9	41
7	A Semantic Sensor Web for Environmental Decision Support Applications. Sensors, 2011, 11, 8855-8887.	3.8	39
8	Ontological Representation of Smart City Data: From Devices to Cities. Applied Sciences (Switzerland), 2019, 9, 32.	2.5	38
9	Ontology based E-learning framework: A personalized, adaptive and context aware model. Multimedia Tools and Applications, 2019, 78, 34745-34771.	3.9	37
10	A Semantically Enabled Service Architecture for Mashups over Streaming and Stored Data. Lecture Notes in Computer Science, 2011, , 300-314.	1.3	32
11	Interoperability results for Semantic Web technologies using OWL as the interchange language. Web Semantics, 2010, 8, 278-291.	2.9	30
12	MultiFarm: A benchmark for multilingual ontology matching. Web Semantics, 2012, 15, 62-68.	2.9	29
13	Enhancing energy management at district and building levels via an EM-KPI ontology. Automation in Construction, 2019, 99, 152-167.	9.8	27
14	Best practices for publishing, retrieving, and using spatial data on the web. Semantic Web, 2018, 10, 95-114.	1.9	22
15	Astrea: Automatic Generation of SHACL Shapes from Ontologies. Lecture Notes in Computer Science, 2020, , 497-513.	1.3	17
16	eWoT: A Semantic Interoperability Approach for Heterogeneous IoT Ecosystems Based on the Web of Things. Sensors, 2020, 20, 822.	3.8	15
17	Ontology-driven semantic unified modelling for concurrent activity recognition (OSCAR). Multimedia Tools and Applications, 2019, 78, 2073-2104.	3.9	14
18	RDF shape induction using knowledge base profiling. , 2018, , .		13

#	Article	IF	Citations
19	An open virtual neighbourhood network to connect IoT infrastructures and smart objects â€" Vicinity: IoT enables interoperability as a service. , 2017, , .		12
20	Chowlk: from UML-Based Ontology Conceptualizations toÂOWL. Lecture Notes in Computer Science, 2022, , 338-352.	1.3	10
21	Context management in mobile environments. , 2009, , .		9
22	A Core Ontological Model for Semantic Sensor Web Infrastructures. International Journal on Semantic Web and Information Systems, 2012, 8, 22-42.	5.1	9
23	Toward the Ontological Modeling of Smart Contracts: A Solidity Use Case. IEEE Access, 2021, 9, 140156-140172.	4.2	9
24	SemQuaRE â€" An extension of the SQuaRE quality model for the evaluation of semantic technologies. Computer Standards and Interfaces, 2015, 38, 101-112.	5.4	8
25	Completeness and consistency analysis for evolving knowledge bases. Web Semantics, 2019, 54, 48-71.	2.9	8
26	An information sharing strategy based on linked data for net zero energy buildings and clusters. Automation in Construction, 2021, 124, 103592.	9.8	7
27	The state of semantic technology today. , 2011, , .		6
28	Towards a Component-Based Framework for Developing Semantic Web Applications. Lecture Notes in Computer Science, 2008, , 197-211.	1.3	6
29	RDF(S) INTEROPERABILITY RESULTS FOR SEMANTIC WEB TECHNOLOGIES. International Journal of Software Engineering and Knowledge Engineering, 2009, 19, 1083-1108.	0.8	5
30	Semantic evaluation at large scale (SEALS). , 2012, , .		5
31	Supporting Demand-Response strategies with the DELTA ontology. , 2021, , .		5
32	Ontology evolution for personalised and adaptive activity recognition. IET Wireless Sensor Systems, 2019, 9, 193-200.	1.7	4
33	Semantic Interoperability for DR Schemes Employing the SGAM Framework. , 2020, , .		4
34	The Semantic Web Framework: A Component-Based Framework for the Development of Semantic Web Applications. , 2008, , .		3
35	Ontology verification testing using lexico-syntactic patterns. Information Sciences, 2022, 582, 89-113.	6.9	3
36	Towards a Quality Model for Semantic Technologies. Lecture Notes in Computer Science, 2011, , 244-256.	1.3	3

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37	Large-Scale Benchmarking of the OWL Interoperability of Semantic Web Technologies. , 2008, , .		2
38	Infrastructure and workflow for the formal evaluation of semantic search technologies. , 2011, , .		2
39	A Method for Performing an Exhaustive Evaluation of RDF(S) Importers. Lecture Notes in Computer Science, 2005, , 199-206.	1.3	2
40	A keyword-driven approach for generating OWL DL conformance test data. Engineering Applications of Artificial Intelligence, 2013, 26, 1413-1420.	8.1	1
41	Repairing Hidden Links in Linked Data. , 2017, , .		1
42	Conformance testing of ontologies through ontology requirements. Engineering Applications of Artificial Intelligence, 2021, 97, 104026.	8.1	1
43	Towards metrics-driven ontology engineering. Knowledge and Information Systems, 2021, 63, 867-903.	3.2	1
44	Guidelines for the Specification and Design of Large-Scale Semantic Applications. Lecture Notes in Computer Science, 2009, , 184-198.	1.3	1
45	On a steady path to semantic technology evaluation. Web Semantics, 2013, 21, 1-2.	2.9	0