

James A Hendler

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.

130
papers

11,049
citations

32
h-index

105
g-index

152
ext. papers

13,066
ext. citations

4
avg, IF

6.37
L-index

#	Paper	IF	Citations
130	The Semantic Web. <i>Scientific American</i> , 2001 , 284, 34-43	0.5	6597
129	HTN planning for Web Service composition using SHOP2. <i>Web Semantics</i> , 2004 , 1, 377-396	2.9	461
128	Inferring binary trust relationships in Web-based social networks. <i>ACM Transactions on Internet Technology</i> , 2006 , 6, 497-529	3.8	286
127	Information accountability. <i>Communications of the ACM</i> , 2008 , 51, 82-87	2.5	220
126	Web science. <i>Communications of the ACM</i> , 2008 , 51, 60-69	2.5	206
125	Computer science. Creating a science of the Web. <i>Science</i> , 2006 , 313, 769-771	33.3	173
124	A Framework for Web Science. <i>Foundations and Trends in Web Science</i> , 2006 , 1, 1-130	0	169
123	Publishing on the semantic web. <i>Nature</i> , 2001 , 410, 1023-4	50.4	160
122	Trust Networks on the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2003 , 238-249	0.9	146
121	Swoop: A Web Ontology Editing Browser. <i>Web Semantics</i> , 2006 , 4, 144-153	2.9	134
120	Automating DAML-S Web Services Composition Using SHOP2. <i>Lecture Notes in Computer Science</i> , 2003 , 195-210	0.9	133
119	Debugging unsatisfiable classes in OWL ontologies. <i>Web Semantics</i> , 2005 , 3, 268-293	2.9	108
118	Web 3.0 Emerging. <i>Computer</i> , 2009 , 42, 111-113	1.6	105
117	Changing the equation on scientific data visualization. <i>Science</i> , 2011 , 331, 705-8	33.3	104
116	Matrix "Bit" loaded 2010 ,		103
115	Metcalfe's law, Web 2.0, and the Semantic Web. <i>Web Semantics</i> , 2008 , 6, 14-20	2.9	100
114	Analyzing web access control policies 2007 ,		97

113	Embracing "Web 3.0". <i>IEEE Internet Computing</i> , 2007 , 11, 90-93	2.4	94
112	N3Logic: A logical framework for the World Wide Web. <i>Theory and Practice of Logic Programming</i> , 2008 , 8, 249-269	0.8	93
111	TWC LOGD: A portal for linked open government data ecosystems. <i>Web Semantics</i> , 2011 , 9, 325-333	2.9	92
110	Communication. Science and the semantic web. <i>Science</i> , 2003 , 299, 520-1	33.3	84
109	Artificial Intelligence. Amplify scientific discovery with artificial intelligence. <i>Science</i> , 2014 , 346, 171-2	33.3	66
108	US Government Linked Open Data: Semantic.data.gov. <i>IEEE Intelligent Systems</i> , 2012 , 27, 25-31	4.2	63
107	Parallel Materialization of the Finite RDFS Closure for Hundreds of Millions of Triples. <i>Lecture Notes in Computer Science</i> , 2009 , 682-697	0.9	63
106	Accuracy of Metrics for Inferring Trust and Reputation in Semantic Web-Based Social Networks. <i>Lecture Notes in Computer Science</i> , 2004 , 116-131	0.9	56
105	A Study of the Human Flesh Search Engine: Crowd-Powered Expansion of Online Knowledge. <i>Computer</i> , 2010 , 43, 45-53	1.6	54
104	Avoiding Another AI Winter. <i>IEEE Intelligent Systems</i> , 2008 , 23, 2-4	4.2	45
103	Open Government Data: A Data Analytics Approach. <i>IEEE Intelligent Systems</i> , 2013 , 28, 19-23	4.2	42
102	A Tool for Working with Web Ontologies. <i>International Journal on Semantic Web and Information Systems</i> , 2005 , 1, 36-49	1.4	41
101	Semantic Web Architecture: Stack or Two Towers?. <i>Lecture Notes in Computer Science</i> , 2005 , 37-41	0.9	41
100	Information gathering during planning for Web Service composition. <i>Web Semantics</i> , 2005 , 3, 183-205	2.9	40
99	Planning and the brain. <i>Behavioral and Brain Sciences</i> , 1991 , 14, 563-564	0.9	39
98	Data Integration for Heterogenous Datasets. <i>Big Data</i> , 2014 , 2, 205-215	3.1	32
97	Towards a theory of semantic communication 2011 ,		32
96	A Survey of the Web Ontology Landscape. <i>Lecture Notes in Computer Science</i> , 2006 , 682-694	0.9	31

95	Why the Data Train Needs Semantic Rails. <i>AI Magazine</i> , 2015 , 36, 5-14	6.1	29
94	Visualization tools for open government data 2013 ,		29
93	TWC data-gov corpus 2010 ,		28
92	MERGING SEPARATELY GENERATED PLANS WITH RESTRICTED INTERACTIONS. <i>Computational Intelligence</i> , 1992 , 8, 648-676	2.5	25
91	A new look at the semantic web. <i>Communications of the ACM</i> , 2016 , 59, 35-37	2.5	24
90	A Semantic Web approach to the provenance challenge. <i>Concurrency Computation Practice and Experience</i> , 2008 , 20, 431-439	1.4	22
89	Broad Data: Exploring the Emerging Web of Data. <i>Big Data</i> , 2013 , 1, 18-20	3.1	21
88	Entity linking for biomedical literature. <i>BMC Medical Informatics and Decision Making</i> , 2015 , 15 Suppl 1, S4	3.6	21
87	A study on the use of visualizations for Open Government Data. <i>Information Polity</i> , 2014 , 19, 73-91	2.1	21
86	Information Gathering During Planning for Web Service Composition. <i>Lecture Notes in Computer Science</i> , 2004 , 335-349	0.9	21
85	Representing Web Service Policies in OWL-DL. <i>Lecture Notes in Computer Science</i> , 2005 , 461-475	0.9	21
84	The Web Observatory: A Middle Layer for Broad Data. <i>Big Data</i> , 2014 , 2, 129-33	3.1	18
83	Where Are All the Intelligent Agents?. <i>IEEE Intelligent Systems</i> , 2007 , 22, 2-3	4.2	18
82	The Science of Data Science. <i>Big Data</i> , 2014 , 2, 68-70	3.1	17
81	Accountability and deterrence in online life 2011 ,		17
80	Web Science: Understanding the Emergence of Macro-Level Features on the World Wide Web. <i>Foundations and Trends in Web Science</i> , 2013 , 4, 103-267	0	15
79	. <i>IEEE Transactions on Computational Social Systems</i> , 2017 , 4, 207-217	4.5	14
78	Web 3.0: The Dawn of Semantic Search. <i>Computer</i> , 2010 , 43, 77-80	1.6	13

77	A Semantic Web Environment for Digital Shapes Understanding. <i>Lecture Notes in Computer Science</i> , 2007 , 226-239	0.9	12
76	New Tools for the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2002 , 392-400	0.9	12
75	Semantic sensitive tensor factorization. <i>Artificial Intelligence</i> , 2016 , 230, 224-245	3.6	11
74	. <i>IEEE Intelligent Systems</i> , 2007 , 22, 2-4	4.2	11
73	Performance Analysis of Mobile Agents for Filtering Data Streams on Wireless Networks. <i>Mobile Networks and Applications</i> , 2002 , 7, 163-174	2.9	11
72	Analyzing the AIR Language: A Semantic Web (Production) Rule Language. <i>Lecture Notes in Computer Science</i> , 2010 , 58-72	0.9	11
71	Liberal Entity Extraction: Rapid Construction of Fine-Grained Entity Typing Systems. <i>Big Data</i> , 2017 , 5, 19-31	3.1	10
70	Investor Attention on the Social Web. <i>Journal of Behavioral Finance</i> , 2016 , 17, 45-59	1.9	10
69	Understanding Emergency Department 72-Hour Revisits Among Medicaid Patients Using Electronic Healthcare Records. <i>Big Data</i> , 2015 , 3, 238-48	3.1	10
68	Web Service Composition via Problem Decomposition Across Multiple Ontologies 2007 ,		10
67	Enhancement for multiple-inheritance. <i>ACM SIGPLAN Notices</i> , 1986 , 21, 98-106	0.2	10
66	Science of the World Wide Web. <i>Science</i> , 2016 , 354, 703-704	33.3	9
65	Brokers or Bridges? Exploring Structural Holes in a Crowdsourcing System. <i>Computer</i> , 2016 , 49, 56-64	1.6	9
64	Preserving quality of information by using semantic relationships. <i>Pervasive and Mobile Computing</i> , 2014 , 11, 188-202	3.5	9
63	Debugging Unsatisfiable Classes in OWL Ontologies. <i>SSRN Electronic Journal</i> ,	1	9
62	Introduction to the Semantic Web Technologies 2011 , 1-41		9
61	Getting the Dirt on Big Data. <i>Big Data</i> , 2013 , 1, 137-40	3.1	8
60	Web science: a new frontier. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120512	3	8

59	TWC International Open Government Dataset Catalog 2011 ,		8
58	An Ensemble Architecture for Learning Complex Problem-Solving Techniques from Demonstration. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2012 , 3, 1-38	8	8
57	Scalable reduction of large datasets to interesting subsets. <i>Web Semantics</i> , 2010 , 8, 365-373	2.9	8
56	Knowledge is Power: The Semantic Web Vision. <i>Lecture Notes in Computer Science</i> , 2001 , 18-29	0.9	8
55	Design Index for Deep Neural Networks. <i>Procedia Computer Science</i> , 2016 , 88, 131-138	1.6	7
54	Deep learning for noise-tolerant RDFS reasoning ¹ . <i>Semantic Web</i> , 2019 , 10, 823-862	2.4	7
53	Reinventing Academic Publishing-Part 1. <i>IEEE Intelligent Systems</i> , 2007 , 22, 2-3	4.2	7
52	The Design and Implementation of Marker-passing Systems. <i>Connection Science</i> , 1989 , 1, 17-40	2.8	7
51	The Semantic Web and the Next Generation of Human Computation 2013 , 523-530		7
50	SEMANTIC INTEROPERABILITY AND INFORMATION FLUIDITY. <i>International Journal of Cooperative Information Systems</i> , 2006 , 15, 1-21	0.6	6
49	The Chinese "Human Flesh" Web: the first decade and beyond. <i>Science Bulletin</i> , 2014 , 59, 3352-3361		5
48	Toward expressive syndication on the web 2007 ,		5
47	Knowledge Integration for Disease Characterization: A Breast Cancer Example. <i>Lecture Notes in Computer Science</i> , 2018 , 223-238	0.9	5
46	Foreign language acquisition via artificial intelligence and extended reality: design and evaluation. <i>Computer Assisted Language Learning</i> , 1-29	2.9	5
45	Preserving quality of information by using semantic relationships 2012 ,		4
44	Fundamental analysis powered by Semantic Web 2011 ,		4
43	Linking Symbolic and Subsymbolic Computing. <i>Connection Science</i> , 1993 , 5, 395-414	2.8	4
42	Analyzing the Flow of Trust in the Virtual World With Semantic Web Technologies. <i>IEEE Transactions on Computational Social Systems</i> , 2018 , 5, 807-815	4.5	4

41	Entity Linking for Biomedical Literature 2014 ,		3
40	Transdisciplinary ITexts and the Future of Web-Scale Collaboration. <i>Journal of Business and Technical Communication</i> , 2011 , 25, 322-337	1.9	3
39	Scalable Reduction of Large Datasets to Interesting Subsets. <i>SSRN Electronic Journal</i> ,	1	3
38	A Response to NÉz et al.'s (2019) "What Happened to Cognitive Science?". <i>Topics in Cognitive Science</i> , 2019 , 11, 914-917	2.5	2
37	Social machines in practice 2016 ,		2
36	Towards a Cyberphysical Web Science 2019 ,		2
35	The web observatory extension 2014 ,		2
34	Peta Vs. Meta. <i>Big Data</i> , 2013 , 1, 82-4	3.1	2
33	2011 ,		2
32	We've Come a Long Way, Maybe □ <i>IEEE Intelligent Systems</i> , 2008 , 23, 2-3	4.2	2
31	. <i>IEEE Intelligent Systems</i> , 2008 , 23, 2-3	4.2	2
30	Semantic Web Technologies for Terrorist Network Analysis 2006 , 125-137		2
29	PLANNING AND REACTING ACROSS SUPERVENIENT LEVELS OF REPRESENTATION. <i>International Journal of Cooperative Information Systems</i> , 1992 , 01, 411-449	0.6	2
28	Information Gathering During Planning for Web Service Composition. <i>SSRN Electronic Journal</i> ,	1	2
27	In-context query reformulation for failing SPARQL queries 2017 ,		1
26	Semantic Web and Declarative Agent Languages and Technologies: Current and Future Trends. <i>Lecture Notes in Computer Science</i> , 2013 , 197-202	0.9	1
25	A New Portrait of the Semantic Web in Action. <i>IEEE Intelligent Systems</i> , 2008 , 23, 2-3	4.2	1
24	The State of the Magazine. <i>IEEE Intelligent Systems</i> , 2006 , 21, 2-3	4.2	1

23	Efficient Classification of Supercomputer Failures Using Neuromorphic Computing 2018 ,		1
22	. <i>Computer</i> , 2018 , 51, 12-17	1.6	1
21	Knowledge graphs: Introduction, history, and perspectives. <i>AI Magazine</i> , 2022 , 43, 17-29	6.1	1
20	Computers Play Chess, Computers Play Go, Humans Play Dungeons & Dragons. <i>IEEE Intelligent Systems</i> , 2017 , 32, 31-34	4.2	0
19	A Journal for Human and Machine. <i>Data Intelligence</i> , 2019 , 1, 1-5	3	
18	Cognitive Computing. <i>IEEE Intelligent Systems</i> , 2017 , 32, 3-4	4.2	
17	Society Online, Part 2 [Guest editors' introduction]. <i>IEEE Intelligent Systems</i> , 2011 , 26, 22-25	4.2	
16	Oliver G. Selfridge (1926-2008). <i>IEEE Intelligent Systems</i> , 2009 , 24, 12-13	4.2	
15	Guest Editors' Introduction: Society Online. <i>IEEE Intelligent Systems</i> , 2009 , 24, 20-21	4.2	
14	Why Do We Need Intelligent Systems?. <i>IEEE Intelligent Systems</i> , 2008 , 23, 2-3	4.2	
13	Why It Matters. <i>IEEE Intelligent Systems</i> , 2008 , 23, 2-3	4.2	
12	Agents Redux. <i>IEEE Intelligent Systems</i> , 2007 , 22, 2-2	4.2	
11	Reinventing Academic Publishing, Part 2. <i>IEEE Intelligent Systems</i> , 2007 , 22, 2-3	4.2	
10	Below the knowledge level architecture. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1989 , 1, 255-258	2	
9	But what is the substance of connectionist representation?. <i>Behavioral and Brain Sciences</i> , 1990 , 13, 496-497	4.9	
8	A flawed analogy?. <i>Behavioral and Brain Sciences</i> , 1987 , 10, 485-486	0.9	
7	Semantic Web Research Trends and Directions. <i>Lecture Notes in Computer Science</i> , 2005 , 160-169	0.9	
6	The Importance of Authoritative URI Design Schemes for Open Government Data 2018 , 2181-2199		

- 5 Providing Computationally Effective Knowledge Representation via Massive Parallelism. *Machine Intelligence and Pattern Recognition*, **1994**, 14, 115-135
- 4 Tensor Factorization that Utilizes Semantics behind Objects. *Transactions of the Japanese Society for Artificial Intelligence*, **2015**, 30, 510-525 0.7
- 3 Social Networking on the World Wide Web **2016**, 1-14
- 2 The Twitter Observatory. *Communications in Computer and Information Science*, **2014**, 245-250 0.3
- 1 A Tool for Working with Web Ontologies. *Advances in Semantic Web and Information Systems Series*, 124-139