James A Hendler

List of Publications by Year
in descending order

144 papers	14,427 citations	109321 35 h-index	32842 100 g-index
152 all docs	152 docs citations	152 times ranked	8571 citing authors

#	Article	IF	Citations
1	Foreign language acquisition via artificial intelligence and extended reality: design and evaluation. Computer Assisted Language Learning, 2022, 35, 2332-2360.	7.1	30
2	Knowledge graphs: Introduction, history, and perspectives. AI Magazine, 2022, 43, 17-29.	1.6	5
3	Reflections on Successful Research in Artificial Intelligence: An Introduction. AI Magazine, 2020, 40, 3-5.	1.6	0
4	Training Deep Neural Networks with Constrained Learning Parameters. , 2020, , .		0
5	Towards a Cyberphysical Web Science. , 2019, , .		5
6	Deep learning for noise-tolerant RDFS reasoning1. Semantic Web, 2019, 10, 823-862.	1.9	14
7	A Response to NÃºÃ±ez et al.'s (2019) â€œWhat Happened to Cognitive Science?â€• Topics in Cognitive Science, 2019, 11, 914-917.	1.9	5
8	A Journal for Human and Machine. Data Intelligence, 2019, 1, 1-5.	1.5	1
9	Efficient Classification of Supercomputer Failures Using Neuromorphic Computing. , 2018, , .		12
10	Web Science: Now More Than Ever. Computer, 2018, 51, 12-17.	1.1	1
11	Analyzing the Flow of Trust in the Virtual World With Semantic Web Technologies. IEEE Transactions on Computational Social Systems, 2018, 5, 807-815.	4.4	6
12	To Serve AI (It's a Cookbook). AI Magazine, 2018, 39, 60-64.	1.6	0
13	Knowledge Integration for Disease Characterization: A Breast Cancer Example. Lecture Notes in Computer Science, 2018, , 223-238.	1.3	12
14	The Importance of Authoritative URI Design Schemes for Open Government Data. , 2018, , 2181-2199.		0
15	Social Networking on the World Wide Web. , 2018, , 2717-2730.		0
16	In-context query reformulation for failing SPARQL queries. , 2017, , .		1
17	Liberal Entity Extraction: Rapid Construction of Fine-Grained Entity Typing Systems. Big Data, 2017, 5, 19-31.	3.4	15
18	Computers Play Chess, Computers Play Goâ€¦Humans Play Dungeons & Dragons. IEEE Intelligent Systems, 2017, 32, 31-34.	4.0	2

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19	Cognitive Computing. IEEE Intelligent Systems, 2017, 32, 3-4.	4.0	0
20	Semantic Social Network Analysis by Cross-Domain Tensor Factorization. IEEE Transactions on Computational Social Systems, 2017, 4, 207-217.	4.4	18
21	A new look at the semantic web. Communications of the ACM, 2016, 59, 35-37.	4.5	30
22	Design Index for Deep Neural Networks. Procedia Computer Science, 2016, 88, 131-138.	2.0	10
23	Science of the World Wide Web. Science, 2016, 354, 703-704.	12.6	11
24	Social machines in practice. , 2016, , .		6
25	Brokers or Bridges? Exploring Structural Holes in a Crowdsourcing System. Computer, 2016, 49, 56-64.	1.1	12
26	Investor Attention on the Social Web. Journal of Behavioral Finance, 2016, 17, 45-59.	1.7	20
27	Semantic sensitive tensor factorization. Artificial Intelligence, 2016, 230, 224-245.	5.8	13
28	Social Networking on the World Wide Web. , 2016, , 1-14.		1
29	Reclaim the lost promise of the semantic web. Communications of the ACM, 2016, 59, 17-17.	4.5	1
30	Understanding Emergency Department 72-Hour Revisits Among Medicaid Patients Using Electronic Healthcare Records. Big Data, 2015, 3, 238-248.	3.4	11
31	Entity linking for biomedical literature. BMC Medical Informatics and Decision Making, 2015, 15, S4.	3.0	34
32	Semantics for Big Data. AI Magazine, 2015, 36, 3-4.	1.6	2
33	Why the Data Train Needs Semantic Rails. AI Magazine, 2015, 36, 5-14.	1.6	59
34	Linked Ethnographic Data. , 2015, , .		0
35	Tensor Factorization that Utilizes Semantics behind Objects. Transactions of the Japanese Society for Artificial Intelligence, 2015, 30, 510-525.	0.1	0
36	Reports on the 2013 AAAI Fall Symposium Series. AI Magazine, 2014, 35, 69-74.	1.6	1

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37	A study on the use of visualizations for Open Government Data. Information Polity, 2014, 19, 73-91.	0.8	27
38	Data Integration for Heterogenous Datasets. Big Data, 2014, 2, 205-215.	3.4	47
39	Entity Linking for Biomedical Literature. , 2014, , .		11
40	The Web Observatory: A Middle Layer for Broad Data. Big Data, 2014, 2, 129-133.	3.4	24
41	The Science of Data Science. Big Data, 2014, 2, 68-70.	3.4	26
42	The web observatory extension. , 2014, , .		3
43	The Chinese â€œHuman Fleshâ€•Web: the first decade and beyond. Science Bulletin, 2014, 59, 3352-3361.	1.7	7
44	Amplify scientific discovery with artificial intelligence. Science, 2014, 346, 171-172.	12.6	95
45	Preserving quality of information by using semantic relationships. Pervasive and Mobile Computing, 2014, 11, 188-202.	3.3	30
46	Social Networking on the World Wide Web. , 2014, , 1879-1892.		7
47	The Twitter Observatory. Communications in Computer and Information Science, 2014, , 245-250.	0.5	0
48	Broad Data: Exploring the Emerging Web of Data. Big Data, 2013, 1, 18-20.	3.4	26
49	Peta Vs. Meta. Big Data, 2013, 1, 82-84.	3.4	3
50	Open Government Data: A Data Analytics Approach. IEEE Intelligent Systems, 2013, 28, 19-23.	4.0	49
51	Semantic Web and Declarative Agent Languages and Technologies: Current and Future Trends. Lecture Notes in Computer Science, 2013, , 197-202.	1.3	2
52	Visualization tools for open government data. , 2013, , .		41
53	Getting the Dirt on Big Data. Big Data, 2013, 1, 137-140.	3.4	9
54	Web Science: Understanding the Emergence of Macro-Level Features on the World Wide Web. Foundations and Trends in Web Science, 2013, 4, 103-267.	0.5	22

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55	Web science: a new frontier. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120512.	3.4	13
56	An Ensemble Architecture for Learning Complex Problem-Solving Techniques from Demonstration. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-38.	4.5	10
57	Preserving quality of information by using semantic relationships. , 2012, , .		10
58	US Government Linked Open Data: Semantic.data.gov. IEEE Intelligent Systems, 2012, 27, 25-31.	4.0	82
59	Intelligent Systems, Introduction to. , 2012, , 1642-1643.		0
60	Towards a theory of semantic communication. , 2011, , .		108
61	Fundamental analysis powered by Semantic Web. , 2011, , .		5
62	TWC LOGD: A portal for linked open government data ecosystems. Web Semantics, 2011, 9, 325-333.	2.9	110
63	Society Online, Part 2 [Guest editors' introduction]. IEEE Intelligent Systems, 2011, 26, 22-25.	4.0	0
64	Accountability and deterrence in online life. , 2011, , .		26
65	TWC International Open Government Dataset Catalog. , 2011, , .		11
66	Evolving a rapid prototyping environment for visually and analytically exploring large-scale Linked Open Data. , 2011, , .		2
67	Transdisciplinary ITexts and the Future of Web-Scale Collaboration. Journal of Business and Technical Communication, 2011, 25, 322-337.	2.0	5
68	The Semantic Web 10thyear update. , 2011, , .		1
69	Changing the Equation on Scientific Data Visualization. Science, 2011, 331, 705-708.	12.6	139
70	Introduction to the Semantic Web Technologies. , 2011, , 1-41.		13
71	A Study of the Human Flesh Search Engine: Crowd-Powered Expansion of Online Knowledge. Computer, 2010, 43, 45-53.	1.1	78
72	Web 3.0: The Dawn of Semantic Search. Computer, 2010, 43, 77-80.	1.1	37

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73	Scalable reduction of large datasets to interesting subsets. Web Semantics, 2010, 8, 365-373.	2.9	8
74	AI Theory and Practice: A Discussion on Hard Challenges and Opportunities Ahead. AI Magazine, 2010, 31, 103.	1.6	1
75	Matrix "Bit" loaded. , 2010, , .		140
76	TWC data-gov corpus. , 2010, , .		35
77	Analyzing the AIR Language: A Semantic Web (Production) Rule Language. Lecture Notes in Computer Science, 2010, , 58-72.	1.3	17
78	Web 3.0 Emerging. Computer, 2009, 42, 111-113.	1.1	167
79	Oliver G. Selfridge (1926-2008). IEEE Intelligent Systems, 2009, 24, 12-13.	4.0	0
80	Guest Editors' Introduction: Society Online. IEEE Intelligent Systems, 2009, 24, 20-21.	4.0	0
81	Parallel Materialization of the Finite RDFS Closure for Hundreds of Millions of Triples. Lecture Notes in Computer Science, 2009, , 682-697.	1.3	86
82	A Semantic Web approach to the provenance challenge. Concurrency Computation Practice and Experience, 2008, 20, 431-439.	2.2	39
83	Metcalfe's law, Web 2.0, and the Semantic Web. Web Semantics, 2008, 6, 14-20.	2.9	134
84	Avoiding Another AI Winter. IEEE Intelligent Systems, 2008, 23, 2-4.	4.0	77
85	AI's 10 to Watch. IEEE Intelligent Systems, 2008, 23, 9-19.	4.0	2
86	We've Come a Long Way, Maybe Â…. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	2
87	A New Portrait of the Semantic Web in Action. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	9
88	Information accountability. Communications of the ACM, 2008, 51, 82-87.	4.5	298
89	N3Logic: A logical framework for the World Wide Web. Theory and Practice of Logic Programming, 2008, 8, 249-269.	1.5	127
90	Web science. Communications of the ACM, 2008, 51, 60-69.	4.5	269

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91	Why Do We Need Intelligent Systems?. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	0
92	Why It Matters. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	0
93	Reinventing Academic Publishing, Part 3. IEEE Intelligent Systems, 2008, 23, 2-3.	4.0	6
94	Toward expressive syndication on the web. , 2007, , .		8
95	Analyzing web access control policies. , 2007, , .		137
96	Agents Redux. IEEE Intelligent Systems, 2007, 22, 2-2.	4.0	0
97	Reinventing Academic Publishing, Part 2. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	2
98	Department of Redundancy Department?. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	0
99	Where Are All the Intelligent Agents?. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	27
100	The Dark Side of the Semantic Web. IEEE Intelligent Systems, 2007, 22, 2-4.	4.0	24
101	Embracing "Web 3.0". IEEE Internet Computing, 2007, 11, 90-93.	3.3	136
102	Reinventing Academic Publishing-Part 1. IEEE Intelligent Systems, 2007, 22, 2-3.	4.0	11
103	Web Service Composition via Problem Decomposition Across Multiple Ontologies. , 2007, , .		13
104	A Semantic Web Environment for Digital Shapes Understanding. Lecture Notes in Computer Science, 2007, , 226-239.	1.3	15
105	A Framework for Web Science. Foundations and Trends in Web Science, 2006, 1, 1-130.	0.5	214
106	Inferring binary trust relationships in Web-based social networks. ACM Transactions on Internet Technology, 2006, 6, 497-529.	4.4	370
107	Semantic Web Technologies for Terrorist Network Analysis. , 2006, , 125-137.		4
108	The State of the Magazine. IEEE Intelligent Systems, 2006, 21, 2-3.	4.0	1

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109	Swoop: A Web Ontology Editing Browser. Web Semantics, 2006, 4, 144-153.	2.9	183
110	COMPUTER SCIENCE: Enhanced: Creating a Science of the Web. Science, 2006, 313, 769-771.	12.6	231
111	SEMANTIC INTEROPERABILITY AND INFORMATION FLUIDITY. International Journal of Cooperative Information Systems, 2006, 15, 1-21.	0.8	8
112	A Survey of the Web Ontology Landscape. Lecture Notes in Computer Science, 2006, , 682-694.	1.3	43
113	Information gathering during planning for Web Service composition. Web Semantics, 2005, 3, 183-205.	2.9	60
114	Debugging unsatisfiable classes in OWL ontologies. Web Semantics, 2005, 3, 268-293.	2.9	140
115	A Tool for Working with Web Ontologies. International Journal on Semantic Web and Information Systems, 2005, 1, 36-49.	5.1	63
116	HTN Planning for Web Service Composition Using SHOP2. SSRN Electronic Journal, 2004, , .	0.4	0
117	HTN planning for Web Service composition using SHOP2. Web Semantics, 2004, 1, 377-396.	2.9	600
118	Accuracy of Metrics for Inferring Trust and Reputation in Semantic Web-Based Social Networks. Lecture Notes in Computer Science, 2004, , 116-131.	1.3	93
119	Information Gathering During Planning for Web Service Composition. Lecture Notes in Computer Science, 2004, , 335-349.	1.3	32
120	Trust Networks on the Semantic Web. Lecture Notes in Computer Science, 2003, , 238-249.	1.3	231
121	COMMUNICATION: Enhanced: Science and the Semantic Web. Science, 2003, 299, 520-521.	12.6	113
122	Automating DAML-S Web Services Composition Using SHOP2. Lecture Notes in Computer Science, 2003, , 195-210.	1.3	221
123	Performance Analysis of Mobile Agents for Filtering Data Streams on Wireless Networks. Mobile Networks and Applications, 2002, 7, 163-174.	3.3	18
124	New Tools for the Semantic Web. Lecture Notes in Computer Science, 2002, , 392-400.	1.3	20
125	The Semantic Web. Scientific American, 2001, 284, 34-43.	1.0	8,047
126	Publishing on the semantic web. Nature, 2001, 410, 1023-1024.	27.8	219

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127	Knowledge is Power: The Semantic Web Vision. Lecture Notes in Computer Science, 2001, , 18-29.	1.3	14
128	Experimental AI systems. Journal of Experimental and Theoretical Artificial Intelligence, 1995, 7, 1-5.	2.8	2
129	Providing Computationally Effective Knowledge Representation via Massive Parallelism. Machine Intelligence and Pattern Recognition, 1994, 14, 115-135.	0.2	3
130	Linking Symbolic and Subsymbolic Computing. Connection Science, 1993, 5, 395-414.	3.0	6
131	PLANNING AND REACTING ACROSS SUPERVENIENT LEVELS OF REPRESENTATION. International Journal of Cooperative Information Systems, 1992, 01, 411-449.	0.8	5
132	MERGING SEPARATELY GENERATED PLANS WITH RESTRICTED INTERACTIONS. Computational Intelligence, 1992, 8, 648-676.	3.2	40
133	Planning and the brain. Behavioral and Brain Sciences, 1991, 14, 563-564.	0.7	42
134	But what is the substance of connectionist representation?. Behavioral and Brain Sciences, 1990, 13, 496-497.	0.7	0
135	Below the knowledge level architecture. Journal of Experimental and Theoretical Artificial Intelligence, 1989, 1, 255-258.	2.8	0
136	The Design and Implementation of Marker-passing Systems. Connection Science, 1989, 1, 17-40.	3.0	10
137	Editorial: On The Need for Hybrid Systems. Connection Science, 1989, 1, 227-229.	3.0	19
138	A flawed analogy?. Behavioral and Brain Sciences, 1987, 10, 485-486.	0.7	0
139	Enhancement for multiple-inheritance. ACM SIGPLAN Notices, 1986, 21, 98-106.	0.2	14
140	Debugging Unsatisfiable Classes in OWL Ontologies. SSRN Electronic Journal, 0, , .	0.4	9
141	Scalable Reduction of Large Datasets to Interesting Subsets. SSRN Electronic Journal, 0, , .	0.4	4
142	Information Gathering During Planning for Web Service Composition. SSRN Electronic Journal, 0, , .	0.4	3
143	Editorial: The Semantic Web and Policy. SSRN Electronic Journal, 0, , .	0.4	2
144	A Tool for Working with Web Ontologies. Advances in Semantic Web and Information Systems Series, 0, , 124-139.	0.0	0