

Steffen Staab

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

3,390
citations

201385

27
h-index

223531

46
g-index

130
all docs

130
docs citations

130
times ranked

2378
citing authors

#	ARTICLE	IF	CITATIONS
1	What Is an Ontology?. , 2009, , 1-17.		549
2	OntoEdit: Collaborative Ontology Development for the Semantic Web. Lecture Notes in Computer Science, 2002, , 221-235.	1.0	200
3	TripleRank: Ranking Semantic Web Data by Tensor Decomposition. Lecture Notes in Computer Science, 2009, , 213-228.	1.0	124
4	KAON â€” Towards a Large Scale Semantic Web. Lecture Notes in Computer Science, 2002, , 304-313.	1.0	118
5	Learning by googling. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2004, 6, 24-33.	3.2	112
6	Semantic Annotation of Images and Videos for Multimedia Analysis. Lecture Notes in Computer Science, 2005, , 592-607.	1.0	110
7	F--a model of events based on the foundational ontology dolce+DnS ultralight. , 2009, , .		109
8	COMM: Designing a Well-Founded Multimedia Ontology for the Web. Lecture Notes in Computer Science, 2007, , 30-43.	1.0	103
9	Methodology for development and employment of ontology based knowledge management applications. SIGMOD Record, 2002, 31, 18-23.	0.7	78
10	Knowledge Graphs. Synthesis Lectures on Data, Semantics and Knowledge, 2021, 12, 1-257.	3.9	63
11	CREAM: CREAting Metadata for the Semantic Web. Computer Networks, 2003, 42, 579-598.	3.2	61
12	OntoEdit: Guiding Ontology Development by Methodology and Inferencing. Lecture Notes in Computer Science, 2002, , 1205-1222.	1.0	57
13	Querying for provenance, trust, uncertainty and other meta knowledge in RDF. Web Semantics, 2009, 7, 204-219.	2.2	57
14	Networked graphs. , 2008, , .		54
15	SchemEX â€” Efficient construction of a data catalogue by stream-based indexing of linked data. Web Semantics, 2012, 16, 52-58.	2.2	54
16	Designing core ontologies. Applied Ontology, 2011, 6, 177-221.	1.0	53
17	Supporting application development in the semantic web. ACM Transactions on Internet Technology, 2005, 5, 328-358.	3.0	51
18	Using ontologies with UML class-based modeling: The TwoUse approach. Data and Knowledge Engineering, 2010, 69, 1194-1207.	2.1	51

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19	M-OntoMat-Annotizer: Image Annotation Linking Ontologies and Multimedia Low-Level Features. Lecture Notes in Computer Science, 2006, , 633-640.	1.0	50
20	Semantic social overlay networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 5-14.	9.7	46
21	SemaPlorer – Interactive semantic exploration of data and media based on a federated cloud infrastructure. Web Semantics, 2009, 7, 298-304.	2.2	45
22	Explaining Text Clustering Results Using Semantic Structures. Lecture Notes in Computer Science, 2003, , 217-228.	1.0	44
23	Unveiling the hidden bride: deep annotation for mapping and migrating legacy data to the Semantic Web. Web Semantics, 2004, 1, 187-206.	2.2	42
24	Annotation, composition and invocation of semantic web services. Web Semantics, 2004, 2, 31-48.	2.2	38
25	On the Influence of Description Logics Ontologies on Conceptual Similarity. Lecture Notes in Computer Science, 2008, , 48-63.	1.0	38
26	An ontology-based framework for domain-specific modeling. Software and Systems Modeling, 2014, 13, 83-108.	2.2	37
27	SPLODGE: Systematic Generation of SPARQL Benchmark Queries for Linked Open Data. Lecture Notes in Computer Science, 2012, , 116-132.	1.0	36
28	Detecting non-gaussian geographical topics in tagged photo collections. , 2014, , .		32
29	Smart task support through proactive access to organizational memory. Knowledge-Based Systems, 2000, 13, 251-260.	4.0	29
30	OntoEdit: Multifaceted Inferencing for Ontology Engineering. Lecture Notes in Computer Science, 2003, , 128-152.	1.0	29
31	A core ontology on events for representing occurrences in the real world. Multimedia Tools and Applications, 2012, 58, 293-331.	2.6	28
32	Surfing the Service Web. Lecture Notes in Computer Science, 2003, , 211-226.	1.0	27
33	Chromium based Framework to Include Gaze Interaction in Web Browser. , 2017, , .		24
34	Management of Meta Knowledge for RDF Repositories. , 2007, , .		23
35	Smart photo selection. , 2014, , .		23
36	Emergent Semantics Systems. Lecture Notes in Computer Science, 2004, , 14-43.	1.0	23

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37	A semi-automated BPMN-based framework for detecting conflicts between security, data-minimization, and fairness requirements. <i>Software and Systems Modeling</i> , 2020, 19, 1191-1227.	2.2	22
38	TAGSwipe: Touch Assisted Gaze Swipe for Text Entry. , 2020, , .		22
39	Eye-Controlled Interfaces for Multimedia Interaction. <i>IEEE MultiMedia</i> , 2016, 23, 6-13.	1.5	21
40	Ontology enrichment by discovering multi-relational association rules from ontological knowledge bases. , 2016, , .		18
41	Community-based $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -shell decomposition for identifying influential spreaders. <i>Pattern Recognition</i> , 2021, 120, 108130.	5.1	18
42	Data Mining and Automated Discrimination: A Mixed Legal/Technical Perspective. <i>IEEE Intelligent Systems</i> , 2016, 31, 51-55.	4.0	17
43	Model Driven Specification of Ontology Translations. <i>Lecture Notes in Computer Science</i> , 2008, , 484-497.	1.0	16
44	Wissensmanagement mit Ontologien und Metadaten. <i>Informatik-Spektrum</i> , 2002, 25, 194-209.	1.0	15
45	APIs à gogo: Automatic Generation of Ontology APIs. , 2009, , .		15
46	DiALog. <i>International Journal of Web Services Research</i> , 2010, 7, 1-20.	0.5	15
47	Improving User Experience of Eye Tracking-Based Interaction. <i>ACM Transactions on Computer-Human Interaction</i> , 2019, 26, 1-46.	4.6	15
48	$\langle i \rangle \text{SXPath} \langle /i \rangle$. <i>Proceedings of the VLDB Endowment</i> , 2010, 4, 129-140.	2.1	14
49	An Ontology Infrastructure for Multimedia Reasoning. <i>Lecture Notes in Computer Science</i> , 2006, , 51-60.	1.0	14
50	Semantic Multimedia. <i>Lecture Notes in Computer Science</i> , 2008, , 125-170.	1.0	14
51	Leveraging Metadata Creation for the Semantic Web with CREAM. <i>Lecture Notes in Computer Science</i> , 2003, , 19-33.	1.0	13
52	eyeGUI. , 2016, , .		13
53	Exploiting Spatial Context in Image Region Labelling Using Fuzzy Constraint Reasoning. , 2008, , .		12
54	A multimodal dataset for authoring and editing multimedia content: The MAMEM project. <i>Data in Brief</i> , 2017, 15, 1048-1056.	0.5	12

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55	Joint Language and Domain Engineering. Lecture Notes in Computer Science, 2010, , 321-336.	1.0	12
56	The X-COSIM integration framework for a seamless semantic desktop. , 2007, , .		11
57	Predicting User Roles in Social Networks Using Transfer Learning with Feature Transformation. , 2016, , .		11
58	GazeTheKey. , 2017, , .		11
59	Enhanced representation of web pages for usability analysis with eye tracking. , 2018, , .		11
60	From binary temporal relations to non-binary ones and back. Parts of this paper have been published in [36] and in [39]. Artificial Intelligence, 2001, 128, 1-29.	3.9	10
61	Analyzing the Influence of Hyper-parameters and Regularizers of Topic Modeling in Terms of Renyi Entropy. Entropy, 2020, 22, 394.	1.1	10
62	Deciding SHACL Shape Containment Through Description Logics Reasoning. Lecture Notes in Computer Science, 2020, , 366-383.	1.0	10
63	Modeling and Query Patterns for Process Retrieval in OWL. Lecture Notes in Computer Science, 2009, , 243-259.	1.0	10
64	Detecting hidden errors in an ontology using contextual knowledge. Expert Systems With Applications, 2018, 95, 312-323.	4.4	9
65	The Semantic Web: Collective Intelligence on the Web. Informatik-Spektrum, 2011, 34, 469-483.	1.0	8
66	Interactive faceted search and exploration of open social media data on a touchscreen mobile phone. Multimedia Tools and Applications, 2014, 71, 39-60.	2.6	8
67	Impact analysis of data placement strategies on query efforts in distributed RDF stores. Web Semantics, 2018, 50, 21-48.	2.2	8
68	Hands-free web browsing. , 2018, , .		8
69	Semantic Web Application Development with LITEQ. Lecture Notes in Computer Science, 2014, , 212-227.	1.0	8
70	XAROP: A Midterm Report in Introducing a Decentralized Semantics-Based Knowledge Sharing Application. Lecture Notes in Computer Science, 2004, , 259-270.	1.0	8
71	Semantic Web Architecture. , 2011, , 43-75.		8
72	Can You See It? Two Novel Eye-Tracking-Based Measures for Assigning Tags to Image Regions. Lecture Notes in Computer Science, 2013, , 36-46.	1.0	8

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73	Empirical study on the usage of graph query languages in open source Java projects. , 2019, , .		8
74	Time-invariant degree growth in preferential attachment network models. Physical Review E, 2020, 101, 022309.	0.8	7
75	Evaluating Reference String Extraction Using Line-Based Conditional Random Fields: A Case Study with German Language Publications. Communications in Computer and Information Science, 2017, , 137-145.	0.4	7
76	Leveraging Error Correction in Voice-based Text Entry by Talk-and-Gaze. , 2020, , .		7
77	The Semantic Webâ€™New Ways to Present and Integrate Information. Comparative and Functional Genomics, 2003, 4, 98-103.	2.0	6
78	Representing Distributed Groups with d g FOAF. Lecture Notes in Computer Science, 2010, , 181-195.	1.0	6
79	Understanding Social Networks Using Transfer Learning. Computer, 2018, 51, 52-60.	1.2	6
80	Decay of Relevance in Exponentially Growing Networks. , 2018, , .		6
81	Impact of variable positioning of text prediction in gaze-based text entry. , 2019, , .		6
82	Large Scale Tag Recommendation Using Different Image Representations. Lecture Notes in Computer Science, 2009, , 65-76.	1.0	6
83	PaPel: Provenance-Aware Policy Definition and Execution. IEEE Internet Computing, 2011, 15, 49-58.	3.2	5
84	Analyzing the Impact of Cognitive Load in Evaluating Gaze-Based Typing. , 2017, , .		5
85	Model-based discrimination analysis. , 2018, , .		5
86	Storing and Querying Semantic Data in the Cloud. Lecture Notes in Computer Science, 2018, , 173-222.	1.0	5
87	Identifying Objects in Images from Analyzing the Usersâ€™ Gaze Movements for Provided Tags. Lecture Notes in Computer Science, 2012, , 138-148.	1.0	5
88	The Essence of Functional Programming on Semantic Data. Lecture Notes in Computer Science, 2017, , 750-776.	1.0	5
89	Semantic Query Integration With Reason. The Art Science and Engineering of Programming, 2019, 3, .	0.4	5
90	TouchGazePath: Multimodal Interaction with Touch and Gaze Path for Secure Yet Efficient PIN Entry. , 2019, , .		5

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91	Ontologies and Similarity. Lecture Notes in Computer Science, 2011, , 11-16.	1.0	4
92	Assessing the Usability of Gaze-Adapted Interface against Conventional Eye-Based Input Emulation. , 2017, , .		4
93	Type Checking Program Code Using SHACL. Lecture Notes in Computer Science, 2019, , 399-417.	1.0	4
94	Labelling Image Regions Using Wavelet Features and Spatial Prototypes. Lecture Notes in Computer Science, 2008, , 89-104.	1.0	4
95	Benefiting from usersâ€™ gaze: selection of image regions from eye tracking information for provided tags. Multimedia Tools and Applications, 2014, 71, 363-390.	2.6	3
96	On data placement strategies in distributed RDF stores. , 2017, , .		3
97	Specialization and Validation of Statecharts in OWL. Lecture Notes in Computer Science, 2010, , 360-370.	1.0	3
98	Guest editorial peer-to-peer communications and applications. IEEE Journal on Selected Areas in Communications, 2007, 25, 1-4.	9.7	2
99	Everybody Thinks Online Participation is Great - for Somebody Else. , 2018, , .		2
100	struktâ€™A Pattern System for Integrating Individual and Organizational Knowledge Work. Lecture Notes in Computer Science, 2011, , 569-584.	1.0	2
101	A Model-Driven Approach for Using Templates in OWL Ontologies. Lecture Notes in Computer Science, 2010, , 350-359.	1.0	2
102	Efficient Resource Retrieval from Semantic Knowledge Bases. , 2010, , .		1
103	Using provenance to debug changing ontologies. Web Semantics, 2011, 9, 284-298.	2.2	1
104	ASPG: Generating OLAP Queries for SPARQL Benchmarking. Lecture Notes in Computer Science, 2016, , 171-185.	1.0	1
105	Enhanced representation of web pages for usability analysis with eye tracking. , 2018, , .		1
106	Semantic Social Overlay Networks. , 2010, , 189-219.		1
107	Web science in Europe. Communications of the ACM, 2019, 62, 74-74.	3.3	1
108	Concepts in Application Context. Lecture Notes in Computer Science, 2019, , 45-52.	1.0	1

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109	Introduction to the special issue on "Semantic multimedia", Multimedia Tools and Applications, 2008, 39, 143-147.	2.6	0
110	On Broad Big Data. , 2017, , .		0
111	Impact of variable positioning of text prediction in gaze-based text entry. , 2019, , .		0
112	ProGS: Property Graph Shapes Language. Lecture Notes in Computer Science, 2021, , 392-409.	1.0	0
113	Modeling, Matching and Ranking Services Based on Constraint Hardness. Lecture Notes in Computer Science, 2006, , 471-482.	1.0	0
114	Software Modeling Using Ontology Technologies. , 2011, , 193-213.		0
115	IDE Integrated RDF Exploration, Access and RDF-Based Code Typing with LITEQ. Lecture Notes in Computer Science, 2014, , 505-510.	1.0	0
116	Exploitation of Gaze Data for Photo Region Labeling in an Immersive Environment. Lecture Notes in Computer Science, 2014, , 424-435.	1.0	0
117	GIUPlayer. , 2020, , .		0
118	Management of Meta Knowledge for RDF Repositories. , 2007, , .		0