

Wolf-Tilo Balke

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.

117
papers

818
citations

14
h-index

22
g-index

134
ext. papers

950
ext. citations

1.3
avg, IF

4.37
L-index

#	Paper	IF	Citations
117	Efficient Distributed Skylining for Web Information Systems. <i>Lecture Notes in Computer Science</i> , 2004 , 256-273	0.9	131
116	Skyline queries in crowd-enabled databases 2013 ,		40
115	Query relaxation using malleable schemas 2007 ,		32
114	Highly Scalable Web Service Composition Using Binary Tree-Based Parallelization 2010 ,		25
113	Pushing the boundaries of crowd-enabled databases with query-driven schema expansion. <i>Proceedings of the VLDB Endowment</i> , 2012 , 5, 538-549	3.1	24
112	Demonstrating the semantic growbag 2007 ,		20
111	A taxonomy for multimedia service composition 2004 ,		20
110	Information Extraction Meets Crowdsourcing: A Promising Couple. <i>Datenbank-Spektrum</i> , 2012 , 12, 109-120		18
109	Multi-objective Query Processing for Database Systems 2004 , 936-947		18
108	Exploiting Indifference for Customization of Partial Order Skylines. <i>Database Engineering and Application Symposium (IDEAS), Proceedings of the International</i> , 2006 ,		17
107	Towards building large scale multimedia systems and applications 2005 ,		16
106	Interactive skyline queries. <i>Information Sciences</i> , 2012 , 211, 18-35	7.7	14
105	The Semantic GrowBag Algorithm: Automatically Deriving Categorization Systems. <i>Lecture Notes in Computer Science</i> , 2007 , 1-13	0.9	14
104	Skyline Queries over Incomplete Data - Error Models for Focused Crowd-Sourcing. <i>Lecture Notes in Computer Science</i> , 2013 , 298-312	0.9	14
103	DL Meets P2P [Distributed Document Retrieval Based on Classification and Content. <i>Lecture Notes in Computer Science</i> , 2005 , 379-390	0.9	14
102	Searching Dynamic Communities with Personal Indexes. <i>Lecture Notes in Computer Science</i> , 2005 , 491-505.	0.9	13
101	Eliciting Matters [Controlling Skyline Sizes by Incremental Integration of User Preferences 2007 , 551-562		12

100	Will I Like It? Providing Product Overviews Based on Opinion Excerpts 2011 ,		11
99	P-News: Deeply Personalized News Dissemination for MPEG-7 Based Digital Libraries. <i>Lecture Notes in Computer Science</i> , 2004 , 256-268	0.9	11
98	Top-k Query Evaluation for Schema-Based Peer-to-Peer Networks. <i>Lecture Notes in Computer Science</i> , 2004 , 137-151	0.9	11
97	Highly Scalable Multiprocessing Algorithms for Preference-Based Database Retrieval. <i>Lecture Notes in Computer Science</i> , 2010 , 246-260	0.9	11
96	Skill Ontology-Based Model for Quality Assurance in Crowdsourcing. <i>Lecture Notes in Computer Science</i> , 2014 , 376-387	0.9	11
95	Multidimensional gene search with Genehopper. <i>Nucleic Acids Research</i> , 2015 , 43, W98-103	20.1	10
94	Distributed Management of Concurrent Web Service Transactions. <i>IEEE Transactions on Services Computing</i> , 2009 , 2, 289-302	4.8	10
93	Approaching the Efficient Frontier: Cooperative Database Retrieval Using High-Dimensional Skylines. <i>Lecture Notes in Computer Science</i> , 2005 , 410-421	0.9	10
92	A Quality- and Cost-based Selection Model for Multimedia Service Composition in Mobile Environments 2006 ,		9
91	What does Twitter Measure? 2015 ,		8
90	Preference-driven personalization for flexible digital item adaptation. <i>Multimedia Systems</i> , 2007 , 13, 119-130	2.2	8
89	Through different eyes 2004 ,		8
88	Efficient computation of trade-off skylines 2010 ,		8
87	Multimedia Content Provisioning Using Service Oriented Architectures 2008 ,		7
86	Restricting skyline sizes using weak Pareto dominance. <i>Computer Science - Research and Development</i> , 2007 , 21, 165-178		7
85	Exploiting Latent Semantic Subspaces to Derive Associations for Specific Pharmaceutical Semantics. <i>Data Science and Engineering</i> , 2020 , 5, 333-345	3.6	7
84	Introduction to Information Extraction: Basic Notions and Current Trends. <i>Datenbank-Spektrum</i> , 2012 , 12, 81-88	0.6	6
83	A Service Oriented Architecture for Personalized Rich Media Delivery 2009 ,		6

82	2009,		6
81	Preference-based session management for IP-based mobile multimedia signaling. <i>European Transactions on Telecommunications</i> , 2004 , 15, 415-427		6
80	Automatically created concept graphs using descriptive keywords in the medical domain. <i>Methods of Information in Medicine</i> , 2008 , 47, 241-50	1.5	6
79	Putting Instance Matching to the Test: Is Instance Matching Ready for Reliable Data Linking?. <i>Lecture Notes in Computer Science</i> , 2014 , 274-284	0.9	6
78	Exploiting Preferences for Minimal Credential Disclosure in Policy-Driven Trust Negotiations. <i>Lecture Notes in Computer Science</i> , 2008 , 99-118	0.9	6
77	Do Embeddings Actually Capture Knowledge Graph Semantics?. <i>Lecture Notes in Computer Science</i> , 2021 , 143-159	0.9	6
76	On Real-Time Top k Querying for Mobile Services. <i>Lecture Notes in Computer Science</i> , 2002 , 125-143	0.9	6
75	Avoiding Chinese Whispers 2015,		5
74	Exposing the hidden web for chemical digital libraries 2010,		5
73	Using Wikipedia categories for compact representations of chemical documents 2010,		5
72	Order-preserving optimization of twig queries with structural preferences 2008,		5
71	Can Plausibility Help to Support High Quality Content in Digital Libraries?. <i>Lecture Notes in Computer Science</i> , 2017 , 169-180	0.9	5
70	Querying Graph Databases: What Do Graph Patterns Mean?. <i>Lecture Notes in Computer Science</i> , 2017 , 134-148	0.9	5
69	Semantic Facettation in Pharmaceutical Collections Using Deep Learning for Active Substance Contextualization. <i>Lecture Notes in Computer Science</i> , 2017 , 41-53	0.9	5
68	Optimal Preference Elicitation for Skyline Queries over Categorical Domains. <i>Lecture Notes in Computer Science</i> , 2008 , 610-624	0.9	5
67	On Skyline Queries and How to Choose from Pareto Sets. <i>Intelligent Systems Reference Library</i> , 2013 , 15-36	0.8	5
66	Conceptual views for entity-centric search: turning data into meaningful concepts. <i>Computer Science - Research and Development</i> , 2012 , 27, 65-79		4
65	ProSWIP: Property-Based Data Access for Semantic Web Interactive Programming. <i>Lecture Notes in Computer Science</i> , 2013 , 184-199	0.9	4

64	Nonblocking Scheduling for Web Service Transactions 2007 ,		4
63	Context-Compatible Information Fusion for Scientific Knowledge Graphs. <i>Lecture Notes in Computer Science</i> , 2020 , 33-47	0.9	4
62	Modeling Narrative Structures in Logical Overlays on Top of Knowledge Repositories. <i>Lecture Notes in Computer Science</i> , 2020 , 250-260	0.9	4
61	Crowdsourcing for Query Processing on Web Data: A Case Study on the Skyline Operator. <i>Journal of Computing and Information Technology</i> , 2015 , 23, 43	0.4	4
60	Retaining Rough Diamonds: Towards a Fairer Elimination of Low-Skilled Workers. <i>Lecture Notes in Computer Science</i> , 2015 , 169-185	0.9	4
59	Relaxing XML Preference Queries for Cooperative Retrieval. <i>Lecture Notes in Business Information Processing</i> , 2009 , 160-171	0.6	4
58	Measuring the Semantic World [How to Map Meaning to High-Dimensional Entity Clusters in PubMed?]. <i>Lecture Notes in Computer Science</i> , 2018 , 15-27	0.9	4
57	Knowledge Representation and the Embodied Mind: Towards a Philosophy and Technology of Personalized Informatics. <i>Lecture Notes in Computer Science</i> , 2005 , 586-597	0.9	4
56	Demystifying the Semantics of Relevant Objects in Scholarly Collections 2015 ,		3
55	Fast Dual Simulation Processing of Graph Database Queries 2019 ,		3
54	SkyMap: A Trie-Based Index Structure for High-Performance Skyline Query Processing. <i>Lecture Notes in Computer Science</i> , 2011 , 350-365	0.9	3
53	Efficient evaluation of preference query processes using twig caches 2009 ,		3
52	Taking chemistry to the task 2011 ,		3
51	DHTs over Peer Clusters for Distributed Information Retrieval. <i>International Conference on Advanced Networking and Applications</i> , 2007 ,		3
50	Personalized Digital Item Adaptation in Service-Oriented Environments 2006 ,		3
49	A Majority of Wrongs Doesn't Make It Right - On Crowdsourcing Quality for Skewed Domain Tasks. <i>Lecture Notes in Computer Science</i> , 2015 , 293-308	0.9	3
48	Context-Sensitive Ranking Using Cross-Domain Knowledge for Chemical Digital Libraries. <i>Lecture Notes in Computer Science</i> , 2013 , 285-296	0.9	3
47	Large-Scale Experiments for Mathematical Document Classification. <i>Lecture Notes in Computer Science</i> , 2013 , 83-92	0.9	3

46	A Fair Share of the Work? 2018 ,		3
45	Using Queries as Schema-Templates for Graph Databases. <i>Datenbank-Spektrum</i> , 2018 , 18, 89-98	0.6	2
44	Any Suggestions? Active Schema Support for Structuring Web Information. <i>Lecture Notes in Computer Science</i> , 2014 , 251-265	0.9	2
43	Mobile Product Browsing Using Bayesian Retrieval 2010 ,		2
42	Building an efficient preference XML query processor 2009 ,		2
41	Efficiently performing consistency checks for multi-dimensional preference trade-offs 2008 ,		2
40	Progressive Content Delivery for Mobile E-services. <i>Lecture Notes in Computer Science</i> , 2002 , 225-235	0.9	2
39	Scientific Claims Characterization for Claim-Based Analysis in Digital Libraries. <i>Lecture Notes in Computer Science</i> , 2018 , 257-269	0.9	2
38	Knowledge Graph Consolidation by Unifying Synonymous Relationships. <i>Lecture Notes in Computer Science</i> , 2019 , 276-292	0.9	2
37	Semantic Disambiguation of Embedded Drug-Disease Associations Using Semantically Enriched Deep-Learning Approaches. <i>Lecture Notes in Computer Science</i> , 2020 , 489-504	0.9	2
36	Bridging the Gap ¶Using External Knowledge Bases for Context-Aware Document Retrieval. <i>Lecture Notes in Computer Science</i> , 2013 , 11-20	0.9	2
35	TopCrowd. <i>Lecture Notes in Computer Science</i> , 2014 , 122-135	0.9	2
34	Realizing Impact Sourcing by Adaptive Gold Questions: A Socially Responsible Measure for Workers¶Trustworthiness. <i>Lecture Notes in Computer Science</i> , 2015 , 17-29	0.9	2
33	Using Semantic Technologies in Digital Libraries ¶A Roadmap to Quality Evaluation. <i>Lecture Notes in Computer Science</i> , 2009 , 168-179	0.9	2
32	Offering Answers for Claim-Based Queries: A New Challenge for Digital Libraries. <i>Lecture Notes in Computer Science</i> , 2017 , 3-13	0.9	2
31	Result Set Diversification in Digital Libraries Through the Use of Paper¶ Claims. <i>Lecture Notes in Computer Science</i> , 2017 , 225-236	0.9	2
30	Pattern recognition in time series for space missions: A rosetta magnetic field case study. <i>Acta Astronautica</i> , 2020 , 168, 123-129	2.9	2
29	Assessing plausibility of scientific claims to support high-quality content in digital collections. <i>International Journal on Digital Libraries</i> , 2020 , 21, 47-60	1.4	2

28	MPEG-7/21: Structured Metadata for Handling and Personalizing Multimedia Content	363-387		2
27	20. Supporting Information Retrieval in Peer-to-Peer Systems. <i>Lecture Notes in Computer Science</i> , 2005, 337-352		0.9	2
26	Suitability of Graph Database Technology for the Analysis of Spatio-Temporal Data. <i>Future Internet</i> , 2020, 12, 78		3.3	1
25	2019,			1
24	Discussion of Spatial-Symbolic Query Engine in Anatomy <i>Methods of Information in Medicine</i> , 2012, 51, 479-488		1.5	1
23	A Service Oriented Architecture for Personalized Universal Media Access. <i>Future Internet</i> , 2011, 3, 87-116	3	1	1
22	Turning Experience Products into Search Products: Making User Feedback Count	2011,		1
21	Mining Semantic Subspaces to Express Discipline-Specific Similarities	2020,		1
20	KnowlyBERT - Hybrid Query Answering over Language Models and Knowledge Graphs. <i>Lecture Notes in Computer Science</i> , 2020, 294-310		0.9	1
19	Narrative Query Graphs for Entity-Interaction-Aware Document Retrieval. <i>Lecture Notes in Computer Science</i> , 2021, 80-95		0.9	1
18	Towards Semantic Quality Enhancement of User Generated Content. <i>Lecture Notes in Computer Science</i> , 2018, 28-40		0.9	1
17	Explainable Word-Embeddings for Medical Digital Libraries - A Context-Aware Approach	2020,		1
16	Towards Narrative Information Systems. <i>Lecture Notes in Computer Science</i> , 2015, 511-515		0.9	1
15	A Chip Off the Old Block - Extracting Typical Attributes for Entities Based on Family Resemblance. <i>Lecture Notes in Computer Science</i> , 2015, 493-509		0.9	1
14	Towards an Impact-Driven Quality Control Model for Imbalanced Crowdsourcing Tasks. <i>Lecture Notes in Computer Science</i> , 2016, 124-139		0.9	1
13	Catching the Drift \square Indexing Implicit Knowledge in Chemical Digital Libraries. <i>Lecture Notes in Computer Science</i> , 2012, 383-395		0.9	1
12	Malleability-Aware Skyline Computation on Linked Open Data. <i>Lecture Notes in Computer Science</i> , 2012, 33-47		0.9	1
11	PubPharm \square Gemeinsam von der informationswissenschaftlichen Grundlagenforschung zum nachhaltigen Service. <i>ABI Technik, Zeitschrift F\square Automation, Bau Und Technik Im Archiv-, Bibliotheks- Und Informationswesen</i> , 2019, 39, 282-294		0.1	1

- 10 Querying concepts in product data by means of query expansion. *Web Intelligence and Agent Systems*, **2014**, 12, 1-14
- 9 Datenbankgruppen vorgestellt | Das Institut für Informationssysteme (IFIS) an der TU Braunschweig. *Datenbank-Spektrum*, **2010**, 10, 49-50 0.6
- 8 Detecting Synonymous Properties by Shared Data-Driven Definitions. *Lecture Notes in Computer Science*, **2020**, 360-375 0.9
- 7 Do Scaling Algorithms Preserve Word2Vec Semantics? A Case Study for Medical Entities. *Lecture Notes in Computer Science*, **2019**, 3-16 0.9
- 6 Can Language Inference Support Metadata Generation?. *Lecture Notes in Computer Science*, **2019**, 253-264 0.9
- 5 Learning to Rank Claim-Evidence Pairs to Assist Scientific-Based Argumentation. *Lecture Notes in Computer Science*, **2019**, 41-55 0.9
- 4 Linking Semantic Fingerprints of Literature | From Simple Neural Embeddings Towards Contextualized Pharmaceutical Networks. *Lecture Notes in Computer Science*, **2019**, 33-40 0.9
- 3 Uncovering Hidden Qualities | Benefits of Quality Measures for Automatically Generated Metadata. *Lecture Notes in Computer Science*, **2010**, 30-37 0.9
- 2 Equivalence Heuristics for Malleability-Aware Skylines. *Journal of Computing Science and Engineering*, **2012**, 6, 207-218 1.8
- 1 Time-Based Exploratory Search in Scientific Literature. *Lecture Notes in Computer Science*, **2013**, 374-377 0.9