

Wolf-Tilo Balke

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

1,197
citations

623699

14
h-index

642715

23
g-index

135
all docs

135
docs citations

135
times ranked

711
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Distributed Skylining for Web Information Systems. Lecture Notes in Computer Science, 2004, , 256-273.	1.3	177
2	Skyline queries in crowd-enabled databases. , 2013, , .		55
3	A taxonomy for multimedia service composition. , 2004, , .		39
4	Query relaxation using malleable schemas. , 2007, , .		39
5	Highly Scalable Web Service Composition Using Binary Tree-Based Parallelization. , 2010, , .		36
6	Multi-objective Query Processing for Database Systems. , 2004, , 936-947.		34
7	Pushing the boundaries of crowd-enabled databases with query-driven schema expansion. Proceedings of the VLDB Endowment, 2012, 5, 538-549.	3.8	30
8	Demonstrating the semantic growbag. , 2007, , .		27
9	Multi-objective Query Processing for Database Systems. , 2004, , 936-947.		27
10	Towards building large scale multimedia systems and applications. , 2005, , .		25
11	Information Extraction Meets Crowdsourcing: A Promising Couple. Datenbank-Spektrum, 2012, 12, 109-120.	1.3	23
12	DL Meets P2P – Distributed Document Retrieval Based on Classification and Content. Lecture Notes in Computer Science, 2005, , 379-390.	1.3	21
13	The Semantic GrowBag Algorithm: Automatically Deriving Categorization Systems. Lecture Notes in Computer Science, 2007, , 1-13.	1.3	20
14	Skyline Queries over Incomplete Data - Error Models for Focused Crowd-Sourcing. Lecture Notes in Computer Science, 2013, , 298-312.	1.3	20
15	Will I Like It? Providing Product Overviews Based on Opinion Excerpts. , 2011, , .		19
16	Do Embeddings Actually Capture Knowledge Graph Semantics?. Lecture Notes in Computer Science, 2021, , 143-159.	1.3	19
17	Exploiting Indifference for Customization of Partial Order Skylines. Database Engineering and Application Symposium (IDEAS), Proceedings of the International, 2006, , .	0.0	18
18	Interactive skyline queries. Information Sciences, 2012, 211, 18-35.	6.9	17

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19	Multidimensional gene search with Genehopper. Nucleic Acids Research, 2015, 43, W98-W103.	14.5	17
20	Searching Dynamic Communities with Personal Indexes. Lecture Notes in Computer Science, 2005, , 491-505.	1.3	16
21	Eliciting Matters â€™ Controlling Skyline Sizes by Incremental Integration of User Preferences. , 2007, , 551-562.		16
22	Top-k Query Evaluation for Schema-Based Peer-to-Peer Networks. Lecture Notes in Computer Science, 2004, , 137-151.	1.3	15
23	Highly Scalable Multiprocessing Algorithms for Preference-Based Database Retrieval. Lecture Notes in Computer Science, 2010, , 246-260.	1.3	15
24	Through different eyes. , 2004, , .		14
25	Multimedia Content Provisioning Using Service Oriented Architectures. , 2008, , .		14
26	Distributed Management of Concurrent Web Service Transactions. IEEE Transactions on Services Computing, 2009, 2, 289-302.	4.6	14
27	Skill Ontology-Based Model for Quality Assurance in Crowdsourcing. Lecture Notes in Computer Science, 2014, , 376-387.	1.3	14
28	A Quality- and Cost-based Selection Model for Multimedia Service Composition in Mobile Environments. , 2006, , .		11
29	What does Twitter Measure?. , 2015, , .		11
30	P-News: Deeply Personalized News Dissemination for MPEG-7 Based Digital Libraries. Lecture Notes in Computer Science, 2004, , 256-268.	1.3	11
31	Efficient computation of trade-off skylines. , 2010, , .		11
32	Restricting skyline sizes using weak Pareto dominance. Computer Science - Research and Development, 2007, 21, 165-178.	0.9	10
33	Preference-driven personalization for flexible digital item adaptation. Multimedia Systems, 2007, 13, 119-130.	4.7	10
34	Improving citation mining. , 2009, , .		10
35	Preference-based session management for IP-based mobile multimedia signaling. European Transactions on Telecommunications, 2004, 15, 415-427.	1.2	9
36	Nonblocking Scheduling for Web Service Transactions. , 2007, , .		9

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37	A Service Oriented Architecture for Personalized Rich Media Delivery. , 2009, , .		9
38	Introduction to Information Extraction: Basic Notions and Current Trends. Datenbank-Spektrum, 2012, 12, 81-88.	1.3	9
39	Exploiting Latent Semantic Subspaces to Derive Associations for Specific Pharmaceutical Semantics. Data Science and Engineering, 2020, 5, 333-345.	6.4	9
40	On Real-Time Top k Querying for Mobile Services. Lecture Notes in Computer Science, 2002, , 125-143.	1.3	9
41	Context-Compatible Information Fusion for Scientific Knowledge Graphs. Lecture Notes in Computer Science, 2020, , 33-47.	1.3	9
42	Putting Instance Matching to the Test: Is Instance Matching Ready for Reliable Data Linking?. Lecture Notes in Computer Science, 2014, , 274-284.	1.3	8
43	Using Wikipedia categories for compact representations of chemical documents. , 2010, , .		7
44	Conceptual views for entity-centric search: turning data into meaningful concepts. Computer Science - Research and Development, 2012, 27, 65-79.	2.7	7
45	A Fair Share of the Work?. , 2018, , .		7
46	Exploiting Preferences for Minimal Credential Disclosure in Policy-Driven Trust Negotiations. Lecture Notes in Computer Science, 2008, , 99-118.	1.3	7
47	Fast Dual Simulation Processing of Graph Database Queries. , 2019, , .		6
48	Querying Graph Databases: What Do Graph Patterns Mean?. Lecture Notes in Computer Science, 2017, , 134-148.	1.3	6
49	Optimal Preference Elicitation for Skyline Queries over Categorical Domains. Lecture Notes in Computer Science, 2008, , 610-624.	1.3	6
50	On Skyline Queries and How to Choose from Pareto Sets. Intelligent Systems Reference Library, 2013, , 15-36.	1.2	6
51	Crowdsourcing for Query Processing on Web Data: A Case Study on the Skyline Operator. Journal of Computing and Information Technology, 2015, 23, 43.	0.3	6
52	Automatically Created Concept Graphs Using Descriptive Keywords in the Medical Domain. Methods of Information in Medicine, 2008, 47, 241-250.	1.2	6
53	Narrative Query Graphs for Entity-Interaction-Aware Document Retrieval. Lecture Notes in Computer Science, 2021, , 80-95.	1.3	6
54	Personalized Digital Item Adaptation in Service-Oriented Environments. , 2006, , .		5

#	ARTICLE	IF	CITATIONS
55	DHTs over Peer Clusters for Distributed Information Retrieval. International Conference on Advanced Networking and Applications, 2007, , .	0.0	5
56	Exposing the hidden web for chemical digital libraries. , 2010, , .		5
57	ProSWIP: Property-Based Data Access for Semantic Web Interactive Programming. Lecture Notes in Computer Science, 2013, , 184-199.	1.3	5
58	Avoiding Chinese Whispers. , 2015, , .		5
59	Knowledge Representation and the Embodied Mind: Towards a Philosophy and Technology of Personalized Informatics. Lecture Notes in Computer Science, 2005, , 586-597.	1.3	5
60	A Majority of Wrongs Doesnâ€™t Make It Right - On Crowdsourcing Quality for Skewed Domain Tasks. Lecture Notes in Computer Science, 2015, , 293-308.	1.3	5
61	Can Plausibility Help to Support High Quality Content in Digital Libraries?. Lecture Notes in Computer Science, 2017, , 169-180.	1.3	5
62	Semantic Facettation in Pharmaceutical Collections Using Deep Learning for Active Substance Contextualization. Lecture Notes in Computer Science, 2017, , 41-53.	1.3	5
63	Order-preserving optimization of twig queries with structural preferences. , 2008, , .		5
64	A Toolbox for the Nearly-Unsupervised Construction of Digital Library Knowledge Graphs. , 2021, , .		5
65	SkyMap: A Trie-Based Index Structure for High-Performance Skyline Query Processing. Lecture Notes in Computer Science, 2011, , 350-365.	1.3	4
66	Taking chemistry to the task. , 2011, , .		4
67	Measuring the Semantic World â€“ How to Map Meaning to High-Dimensional Entity Clusters in PubMed?. Lecture Notes in Computer Science, 2018, , 15-27.	1.3	4
68	Realizing Impact Sourcing by Adaptive Gold Questions: A Socially Responsible Measure for Workersâ€™ Trustworthiness. Lecture Notes in Computer Science, 2015, , 17-29.	1.3	4
69	Relaxing XML Preference Queries for Cooperative Retrieval. Lecture Notes in Business Information Processing, 2009, , 160-171.	1.0	4
70	Result Set Diversification in Digital Libraries Through the Use of Paperâ€™s Claims. Lecture Notes in Computer Science, 2017, , 225-236.	1.3	4
71	Efficiently performing consistency checks for multi-dimensional preference trade-offs. , 2008, , .		3
72	Efficient evaluation of preference query processes using twig caches. , 2009, , .		3

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73	Mobile Product Browsing Using Bayesian Retrieval. , 2010, , .		3
74	A Service Oriented Architecture for Personalized Universal Media Access. Future Internet, 2011, 3, 87-116.	3.8	3
75	Demystifying the Semantics of Relevant Objects in Scholarly Collections. , 2015, , .		3
76	Pattern recognition in time series for space missions: A rosetta magnetic field case study. Acta Astronautica, 2020, 168, 123-129.	3.2	3
77	Suitability of Graph Database Technology for the Analysis of Spatio-Temporal Data. Future Internet, 2020, 12, 78.	3.8	3
78	Knowledge Graph Consolidation by Unifying Synonymous Relationships. Lecture Notes in Computer Science, 2019, , 276-292.	1.3	3
79	Context-Sensitive Ranking Using Cross-Domain Knowledge for Chemical Digital Libraries. Lecture Notes in Computer Science, 2013, , 285-296.	1.3	3
80	Large-Scale Experiments for Mathematical Document Classification. Lecture Notes in Computer Science, 2013, , 83-92.	1.3	3
81	Explainable Word-Embeddings for Medical Digital Libraries - A Context-Aware Approach. , 2020, , .		3
82	KnowlyBERT - Hybrid Query Answering over Language Models and Knowledge Graphs. Lecture Notes in Computer Science, 2020, , 294-310.	1.3	3
83	What a Publication Tells Youâ€”Benefits of Narrative Information Access in Digital Libraries. , 2022, , .		3
84	Building an efficient preference XML query processor. , 2009, , .		2
85	Efficient Skyline Refinement using trade-offs. , 2009, , .		2
86	Turning Experience Products into Search Products: Making User Feedback Count. , 2011, , .		2
87	Any Suggestions? Active Schema Support for Structuring Web Information. Lecture Notes in Computer Science, 2014, , 251-265.	1.3	2
88	Using Queries as Schema-Templates for Graph Databases. Datenbank-Spektrum, 2018, 18, 89-98.	1.3	2
89	What Drives Research Efforts? Find Scientific Claims that Count!. , 2019, , .		2
90	Assessing plausibility of scientific claims to support high-quality content in digital collections. International Journal on Digital Libraries, 2020, 21, 47-60.	1.5	2

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91	Semantic Disambiguation of Embedded Drug-Disease Associations Using Semantically Enriched Deep-Learning Approaches. Lecture Notes in Computer Science, 2020, , 489-504.	1.3	2
92	Bridging the Gap â€œ Using External Knowledge Bases for Context-Aware Document Retrieval. Lecture Notes in Computer Science, 2013, , 11-20.	1.3	2
93	TopCrowd. Lecture Notes in Computer Science, 2014, , 122-135.	1.3	2
94	Using Semantic Technologies in Digital Libraries â€œ A Roadmap to Quality Evaluation. Lecture Notes in Computer Science, 2009, , 168-179.	1.3	2
95	Progressive Content Delivery for Mobile E-services. Lecture Notes in Computer Science, 2002, , 225-235.	1.3	2
96	Malleability-Aware Skyline Computation on Linked Open Data. Lecture Notes in Computer Science, 2012, , 33-47.	1.3	2
97	Offering Answers for Claim-Based Queries: A New Challenge for Digital Libraries. Lecture Notes in Computer Science, 2017, , 3-13.	1.3	2
98	Scientific Claims Characterization for Claim-Based Analysis in Digital Libraries. Lecture Notes in Computer Science, 2018, , 257-269.	1.3	2
99	A Library Perspective on Nearly-Unsupervised Information Extraction Workflows in Digital Libraries. , 2022, , .		2
100	Eliciting Customer Wishes Using Example-Based Heuristics in E-Commerce Applications. , 2011, , .		1
101	Discussion of â€œSpatial-Symbolic Query Engine in Anatomyâ€; Methods of Information in Medicine, 2012, 51, 479-488.	1.2	1
102	PubPharmâ€œ Gemeinsam von der informationswissenschaftlichen Grundlagenforschung zum nachhaltigen Service. ABI Technik, Zeitschrift FÃ¼r Automation, Bau Und Technik Im Archiv-, Bibliotheks- Und Informationswesen, 2019, 39, 282-294.	0.1	1
103	Towards Narrative Information Systems. Lecture Notes in Computer Science, 2015, , 511-515.	1.3	1
104	Mining Semantic Subspaces to Express Discipline-Specific Similarities. , 2020, , .		1
105	Catching the Drift â€œ Indexing Implicit Knowledge in Chemical Digital Libraries. Lecture Notes in Computer Science, 2012, , 383-395.	1.3	1
106	Equivalence Heuristics for Malleability-Aware Skylines. Journal of Computing Science and Engineering, 2012, 6, 207-218.	0.6	1
107	A Chip Off the Old Block - Extracting Typical Attributes for Entities Based on Family Resemblance. Lecture Notes in Computer Science, 2015, , 493-509.	1.3	1
108	Towards an Impact-Driven Quality Control Model for Imbalanced Crowdsourcing Tasks. Lecture Notes in Computer Science, 2016, , 124-139.	1.3	1

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109	Towards Semantic Quality Enhancement of User Generated Content. Lecture Notes in Computer Science, 2018, , 28-40.	1.3	1
110	Quest for the Gold Par. , 2018, , .		1
111	Learning to Rank Claim-Evidence Pairs to Assist Scientific-Based Argumentation. Lecture Notes in Computer Science, 2019, , 41-55.	1.3	1
112	Digital Infrastructures for Scholarly Content Objects. , 2021, , .		1
113	Itâ€™s the Same Old Story! Enriching Event-Centric Knowledge Graphs by Narrative Aspects. , 2022, , .		1
114	What Makes a Phone a Business Phone - Querying Concepts in Product Data. , 2011, , .		0
115	Meta-line. , 2012, , .		0
116	Bi2SoN. , 2012, , .		0
117	Querying concepts in product data by means of query expansion. Web Intelligence and Agent Systems, 2014, 12, 1-14.	0.4	0
118	An impact-driven model for quality control in skewed-domain crowdsourcing tasks. , 2016, , .		0
119	Monitoring Performance in Large Scale Computing Clouds with Passive Benchmarking. , 2017, , .		0
120	Uncovering Hidden Qualities â€™ Benefits of Quality Measures for Automatically Generated Metadata. Lecture Notes in Computer Science, 2010, , 30-37.	1.3	0
121	Time-Based Exploratory Search in Scientific Literature. Lecture Notes in Computer Science, 2013, , 374-377.	1.3	0
122	Fachinformationsdienst Pharmazie. Zwischen Spitzenforschung und verlÃsslicher Infrastruktur. Zeitschrift Fur Bibliothekswesen Und Bibliographie, 2018, 65, 114-117.	0.0	0
123	Do Scaling Algorithms Preserve Word2Vec Semantics? A Case Study for Medical Entities. Lecture Notes in Computer Science, 2019, , 3-16.	1.3	0
124	Can Language Inference Support Metadata Generation?. Lecture Notes in Computer Science, 2019, , 253-264.	1.3	0
125	Linking Semantic Fingerprints of Literature â€™ from Simple Neural Embeddings Towards Contextualized Pharmaceutical Networks. Lecture Notes in Computer Science, 2019, , 33-40.	1.3	0
126	Preference-driven Control over Incompleteness of Knowledge Graph Query Answers. , 2020, , .		0

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127	Detecting Synonymous Properties by Shared Data-Driven Definitions. Lecture Notes in Computer Science, 2020, , 360-375.	1.3	0
128	2nd Workshop on Digital Infrastructures for Scholarly Content Objects (DISCO'22). , 2022, , .		0