

Nicola Tonellotto

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

983
citations

1039880

9
h-index

839398

18
g-index

76
all docs

76
docs citations

76
times ranked

369
citing authors

#	ARTICLE	IF	CITATIONS
1	An Intelligent system for the categorization of question time official documents of the Italian Chamber of Deputies. Journal of Information Technology and Politics, 2023, 20, 213-234.	1.8	2
2	Design of Fault-Tolerant Distributed Cyber-Physical Systems for Smart Environments. IEEE Embedded Systems Letters, 2022, 14, 79-82.	1.3	0
3	The Istella22 Dataset. , 2022, , .		2
4	Faster Learned Sparse Retrieval with Guided Traversal. , 2022, , .		12
5	Weighting Passages Enhances Accuracy. ACM Transactions on Information Systems, 2021, 39, 1-11.	3.8	2
6	Hierarchical Dependence-aware Evaluation Measures for Conversational Search. , 2021, , .		4
7	Adaptive utterance rewriting for conversational search. Information Processing and Management, 2021, 58, 102682.	5.4	10
8	Query Embedding Pruning for Dense Retrieval. , 2021, , .		9
9	PyTerrier: Declarative Experimentation in Python from BM25 to Dense Retrieval. , 2021, , .		37
10	Topical result caching in web search engines. Information Processing and Management, 2020, 57, 102193.	5.4	3
11	Using an Inverted Index Synopsis for Query Latency and Performance Prediction. ACM Transactions on Information Systems, 2020, 38, 1-33.	3.8	5
12	Efficient Document Re-Ranking for Transformers by Precomputing Term Representations. , 2020, , .		53
13	Expansion via Prediction of Importance with Contextualization. , 2020, , .		51
14	Topic Propagation in Conversational Search. , 2020, , .		16
15	Declarative Experimentation in Information Retrieval using PyTerrier. , 2020, , .		52
16	Parallel Traversal of Large Ensembles of Decision Trees. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2075-2089.	4.0	11
17	Multiple Query Processing via Logic Function Factoring. , 2019, , .		3
18	Enhanced News Retrieval. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
19	Performance Analysis of WebRTC-Based Video Streaming Over Power Constrained Platforms. , 2018, , .		6
20	Efficient Energy Management in Distributed Web Search. , 2018, , .		3
21	Efficient Query Processing for Scalable Web Search. Foundations and Trends in Information Retrieval, 2018, 12, 319-500.	5.8	28
22	Efficient Query Processing Infrastructures. , 2018, , .		1
23	Dataset Popularity Prediction for Caching of CMS Big Data. Journal of Grid Computing, 2018, 16, 211-228.	2.5	13
24	Fast Ranking with Additive Ensembles of Oblivious and Non-Oblivious Regression Trees. ACM Transactions on Information Systems, 2017, 35, 1-31.	3.8	53
25	Energy-Efficient Query Processing in Web Search Engines. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1412-1425.	4.0	18
26	Efficient & Effective Selective Query Rewriting with Efficiency Predictions. , 2017, , .		10
27	Multicore/Manycore Parallel Traversal of Large Forests of Regression Trees. , 2017, , .		2
28	Upper Bound Approximation for BlockMaxWand. , 2017, , .		3
29	Faster BlockMax WAND with Variable-sized Blocks. , 2017, , .		32
30	QuickScorer: Efficient Traversal of Large Ensembles of Decision Trees. Lecture Notes in Computer Science, 2017, , 383-387.	1.0	4
31	Exploiting Green Energy to Reduce the Operational Costs of Multi-Center Web Search Engines. , 2016, , .		8
32	Quality versus efficiency in document scoring with learning-to-rank models. Information Processing and Management, 2016, 52, 1161-1177.	5.4	41
33	Exploiting CPU SIMD Extensions to Speed-up Document Scoring with Tree Ensembles. , 2016, , .		20
34	MIDAS: a cloud platform for SOA testing as a service. International Journal of High Performance Computing and Networking, 2015, 8, 285.	0.4	7
35	The MIDAS Cloud Platform for Testing SOA Applications. , 2015, , .		6
36	Optimal Space-time Tradeoffs for Inverted Indexes. , 2015, , .		27

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37	Speeding up Document Ranking with Rank-based Features. , 2015, , .		6
38	QuickScorer. , 2015, , .		44
39	Load-sensitive CPU Power Management for Web Search Engines. , 2015, , .		8
40	LSDS-IR'15. , 2015, , .		0
41	A self-adapting latency/power tradeoff model for replicated search engines. , 2014, , .		13
42	A SOA Testing Platform on the Cloud: The MIDAS Experience. , 2014, , .		4
43	Workshop on large-scale and distributed systems for information retrieval (LSDS-IR 2014). , 2014, , .		1
44	Load-sensitive selective pruning for distributed search. , 2013, , .		10
45	Efficient and effective retrieval using selective pruning. , 2013, , .		50
46	Workshop on large-scale and distributed systems for information retrieval (LSDS-IR 2013). , 2013, , .		0
47	Query Processing in Highly-Loaded Search Engines. Lecture Notes in Computer Science, 2013, , 49-55.	1.0	2
48	Performance Evaluation of SPDY over High Latency Satellite Channels. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 123-134.	0.2	19
49	Hybrid Query Scheduling for a Replicated Search Engine. Lecture Notes in Computer Science, 2013, , 435-446.	1.0	8
50	On Cloud-Based Multisource Reliable Multicast Transport in Broadband Multimedia Satellite Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 156-163.	0.2	0
51	Effect of dynamic pruning safety on learning to rank effectiveness. , 2012, , .		7
52	Learning to predict response times for online query scheduling. , 2012, , .		56
53	Scheduling queries across replicas. , 2012, , .		3
54	Effect of different docid orderings on dynamic pruning retrieval strategies. , 2011, , .		8

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55	Query efficiency prediction for dynamic pruning. , 2011, , .		4
56	Upper-bound approximations for dynamic pruning. ACM Transactions on Information Systems, 2011, 29, 1-28.	3.8	28
57	Using chemical reactions to model service composition. , 2010, , .		10
58	A Launch-time Scheduling Heuristics for Parallel Applications on Wide Area Grids. Journal of Grid Computing, 2008, 6, 159-175.	2.5	7
59	QoS-constrained List Scheduling Heuristics for Parallel Applications on Grids. , 2008, , .		1
60	Behavioural Skeletons in GCM: Autonomic Management of Grid Components. , 2008, , .		50
61	Behavioural Skeletons for Component Autonomic Management on Grids. , 2008, , 3-15.		9
62	Managing User Expectations with Component Performance Contracts. , 2008, , 375-385.		0
63	A New Approach on Network Resources Management in Grids. , 2008, , 97-108.		0
64	A Performance Model for Stream-based Computations. , 2007, , .		3
65	HPC Application Execution on Grids. , 2006, , 263-282.		4
66	Execution Support of High Performance Heterogeneous Component-Based Applications on the Grid. , 2006, , 171-185.		1
67	A Grid Information Service Based on Peer-to-Peer. Lecture Notes in Computer Science, 2005, , 454-464.	1.0	39
68	Using Web Services to Run Distributed Numerical Applications. Lecture Notes in Computer Science, 2004, , 207-214.	1.0	8
69	A Tool to Execute ASSIST Applications on Globus-Based Grids. Lecture Notes in Computer Science, 2004, , 1075-1082.	1.0	1
70	How to Run Scientific Applications over Web Services. , 0, , .		9