

Nikolaos Mamoulis

List of Publications by Year in descending order

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154
papers

5,204
citations

196777

29
h-index

190340

53
g-index

160
all docs

160
docs citations

160
times ranked

3238
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast and Secure Distributed Nonnegative Matrix Factorization. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 653-666.	4.0	6
2	HINT: A Hierarchical Index for Intervals in Main Memory. , 2022, , .		3
3	Guest editorial: WWWJ special issue of the 20th international conference on Web information systems engineering (WISE 2019). World Wide Web, 2021, 24, 347-349.	2.7	0
4	In-Memory Interval Joins. VLDB Journal, 2021, 30, 667-691.	2.7	10
5	Discovering closed and maximal embedded patterns from large tree data. Data and Knowledge Engineering, 2021, 133, 101890.	2.1	1
6	Proportionality in Spatial Keyword Search. , 2021, , .		5
7	Translation-Based Sequential Recommendation for Complex Users on Sparse Data. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1639-1651.	4.0	27
8	A Crowdsourcing Framework for Collecting Tabular Data. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2060-2074.	4.0	7
9	Top-k relevant semantic place retrieval on spatiotemporal RDF data. VLDB Journal, 2020, 29, 893-917.	2.7	6
10	Top-k spatial distance joins. Geoinformatica, 2020, 24, 591-631.	2.0	0
11	Diversified spatial keyword search on RDF data. VLDB Journal, 2020, 29, 1171-1189.	2.7	13
12	Recommending Geo-semantically Related Classes for Link Discovery. Journal on Data Semantics, 2020, 9, 151-177.	2.0	2
13	Top-k String Similarity Joins. , 2020, , .		0
14	A General Early-Stopping Module for Crowdsourced Ranking. Lecture Notes in Computer Science, 2020, , 314-330.	1.0	1
15	Evaluating pattern matching queries for spatial databases. VLDB Journal, 2019, 28, 649-673.	2.7	7
16	SRX: efficient management of spatial RDF data. VLDB Journal, 2019, 28, 703-733.	2.7	6
17	Spatial joins. SIGSPATIAL Special, 2019, 11, 13-21.	2.5	13
18	HHMF: hidden hierarchical matrix factorization for recommender systems. Data Mining and Knowledge Discovery, 2019, 33, 1548-1582.	2.4	14

#	ARTICLE	IF	CITATIONS
19	Query Processing: Joins. , 2019, , 1345-1351.		0
20	Parallel In-Memory Evaluation of Spatial Joins. , 2019, , .		15
21	Investment recommendation by discovering high-quality opinions in investor based social networks. Information Systems, 2018, 78, 189-198.	2.4	16
22	DSANLS. , 2018, , .		2
23	Thematic ranking of object summaries for keyword search. Data and Knowledge Engineering, 2018, 113, 1-17.	2.1	7
24	Recommending packages with validity constraints to groups of users. Knowledge and Information Systems, 2018, 54, 345-374.	2.1	7
25	On Spatial Pattern Matching. , 2018, , .		23
26	SpaceKey: Exploring Patterns in Spatial Databases. , 2018, , .		6
27	Location-aware query reformulation for search engines. Geoinformatica, 2018, 22, 869-893.	2.0	1
28	T-Crowd: Effective Crowdsourcing for Tabular Data. , 2018, , .		9
29	Temporal Data Mining. , 2018, , 3935-3940.		0
30	Spatiotemporal Data Mining. , 2018, , 3633-3639.		0
31	Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1466-1479.	4.0	56
32	More focus on what you care about: Personalized top reviews set. Neurocomputing, 2017, 254, 3-12.	3.5	3
33	Fairness in Package-to-Group Recommendations. , 2017, , .		66
34	Personalized location recommendation by aggregating multiple recommenders in diversity. Geoinformatica, 2017, 21, 459-484.	2.0	24
35	FEXIPRO. , 2017, , .		38
36	HBGG: a Hierarchical Bayesian Geographical Model for Group Recommendation. , 2017, , 372-380.		24

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37	P-LAG: Location-Aware Group Recommendation for Passive Users. Lecture Notes in Computer Science, 2017, , 242-259.	1.0	2
38	Location-Aware Query Recommendation for Search Engines at Scale. Lecture Notes in Computer Science, 2017, , 203-220.	1.0	4
39	Snapshot and continuous points-based trajectory search. Geoinformatica, 2017, 21, 669-701.	2.0	1
40	Efficient Fault-Tolerant Group Recommendation Using alpha-beta-core. , 2017, , .		49
41	A forward scan based plane sweep algorithm for parallel interval joins. Proceedings of the VLDB Endowment, 2017, 10, 1346-1357.	2.1	21
42	Nearest Neighbor Queries in Network Databases. , 2017, , 1426-1433.		0
43	Indexing, BDual Tree. , 2017, , 973-979.		0
44	Top-k OLAP Queries Using Augmented Spatial Access Methods. , 2017, , 2252-2258.		0
45	Co-location Patterns, Algorithms. , 2017, , 254-260.		0
46	Recommending Packages to Groups. , 2016, , .		26
47	Joint search by social and spatial proximity. , 2016, , .		3
48	Diverse and proportional size-l object summaries using pairwise relevance. VLDB Journal, 2016, 25, 791-816.	2.7	14
49	Top-k Relevant Semantic Place Retrieval on Spatial RDF Data. , 2016, , .		19
50	Set containment join revisited. Knowledge and Information Systems, 2016, 49, 375-402.	2.1	15
51	Nearest Neighbor Queries in Network Databases. , 2016, , 1-7.		0
52	Co-location Patterns, Algorithms. , 2016, , 1-7.		0
53	Accelerating SPARQL queries by exploiting hash-based locality and adaptive partitioning. VLDB Journal, 2016, 25, 355-380.	2.7	78
54	Location Aware Keyword Query Suggestion Based on Document Proximity. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 82-97.	4.0	16

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55	Textually Relevant Spatial Skylines. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 224-237.	4.0	15
56	Temporal Data Mining. , 2016, , 1-6.		0
57	Top-k OLAP Queries Using Augmented Spatial Access Methods. , 2016, , 1-6.		0
58	A topic-based reviewer assignment system. Proceedings of the VLDB Endowment, 2015, 8, 1852-1855.	2.1	20
59	Efficient Notification of Meeting Points for Moving Groups via Independent Safe Regions. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1767-1781.	4.0	10
60	Maximizing a Record's Standing in a Relation. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2401-2414.	4.0	3
61	Overlapping Community Regularization for Rating Prediction in Social Recommender Systems. , 2015, , .		65
62	Geo-Social Co-location Mining. , 2015, , .		11
63	Evaluating SPARQL queries on massive RDF datasets. Proceedings of the VLDB Endowment, 2015, 8, 1848-1851.	2.1	36
64	Diverse and Proportional Size-l Object Summaries for Keyword Search. , 2015, , .		18
65	Dominance relationship analysis with budget constraints. Knowledge and Information Systems, 2015, 42, 409-440.	2.1	13
66	Joint Search by Social and Spatial Proximity. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 781-793.	4.0	28
67	Scaling similarity joins over tree-structured data. Proceedings of the VLDB Endowment, 2015, 8, 1130-1141.	2.1	9
68	Variations of Nearest Neighbor Queries in Euclidean Space. , 2015, , 1-6.		0
69	A revisit to social network-based recommender systems. , 2014, , .		17
70	Density-based place clustering in geo-social networks. , 2014, , .		55
71	Reverse top-k search using random walk with restart. Proceedings of the VLDB Endowment, 2014, 7, 401-412.	2.1	22
72	Versatile Size- l Object Summaries for Relational Keyword Search. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1026-1038.	4.0	13

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73	Managing uncertainty in spatial and spatio-temporal data. , 2014, , .		18
74	An effective encoding scheme for spatial RDF data. Proceedings of the VLDB Endowment, 2014, 7, 1271-1282.	2.1	18
75	Efficient notification of meeting points for moving groups via independent safe regions. , 2013, , .		1
76	A novel distributed framework for optimizing query routing trees in wireless sensor networks via optimal operator placement. Journal of Computer and System Sciences, 2013, 79, 349-368.	0.9	52
77	Lightweight privacy-preserving peer-to-peer data integration. Proceedings of the VLDB Endowment, 2013, 6, 157-168.	2.1	5
78	Optimal Route Queries with Arbitrary Order Constraints. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1097-1110.	4.0	32
79	Location recommendation in location-based social networks using user check-in data. , 2013, , .		175
80	Earth mover's distance based similarity search at scale. Proceedings of the VLDB Endowment, 2013, 7, 313-324.	2.1	29
81	Spatio-textual similarity joins. Proceedings of the VLDB Endowment, 2012, 6, 1-12.	2.1	84
82	Querying Uncertain Spatio-Temporal Data. , 2012, , .		52
83	Spatial inverse query processing. Geoinformatica, 2012, 17, 449.	2.0	0
84	Spatial Data Management. Synthesis Lectures on Data Management, 2011, 3, 1-149.	0.6	14
85	Special section on spatial and temporal databases. Geoinformatica, 2011, 15, 663-664.	2.0	0
86	Local and global recoding methods for anonymizing set-valued data. VLDB Journal, 2011, 20, 83-106.	2.7	84
87	Special issue on data management for mobile services. VLDB Journal, 2011, 20, 641-642.	2.7	5
88	Ranking Spatial Data by Quality Preferences. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 433-446.	4.0	29
89	Continuous spatial assignment of moving users. VLDB Journal, 2010, 19, 141-160.	2.7	18
90	Efficient skyline evaluation over partially ordered domains. Proceedings of the VLDB Endowment, 2010, 3, 1255-1266.	2.1	14

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91	Interesting-phrase mining for ad-hoc text analytics. Proceedings of the VLDB Endowment, 2010, 3, 1348-1357.	2.1	20
92	Scalable Probabilistic Similarity Ranking in Uncertain Databases. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1234-1246.	4.0	34
93	Durable top-k search in document archives. , 2010, , .		18
94	Optimal matching between spatial datasets under capacity constraints. ACM Transactions on Database Systems, 2010, 35, 1-44.	1.5	101
95	Efficient Evaluation of Multiple Preference Queries. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	4
96	Efficient Evaluation of Probabilistic Advanced Spatial Queries on Existentially Uncertain Data. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 108-122.	4.0	47
97	An audit environment for outsourcing of frequent itemset mining. Proceedings of the VLDB Endowment, 2009, 2, 1162-1173.	2.1	33
98	Multi-dimensional top-k dominating queries. VLDB Journal, 2009, 18, 695-718.	2.7	93
99	Retrieval of Spatial Join Pattern Instances from Sensor Networks. Geoinformatica, 2009, 13, 57-84.	2.0	3
100	Thresholded Range Aggregation in Sensor Networks. , 2009, , .		0
101	Temporal Data Mining. , 2009, , 2948-2952.		0
102	Spatio-Temporal Data Mining. , 2009, , 2725-2730.		1
103	The B dual -Tree: indexing moving objects by space filling curves in the dual space. VLDB Journal, 2008, 17, 379-400.	2.7	98
104	Extracting k most important groups from data efficiently. Data and Knowledge Engineering, 2008, 66, 289-310.	2.1	3
105	Common Influence Join: A Natural Join Operation for Spatial Pointsets. , 2008, , .		12
106	Privacy Preservation in the Publication of Trajectories. , 2008, , .		203
107	Privacy-preserving anonymization of set-valued data. Proceedings of the VLDB Endowment, 2008, 1, 115-125.	2.1	200
108	Computation and Monitoring of Exclusive Closest Pairs. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 1641-1654.	4.0	15

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109	Co-location Patterns, Algorithms. , 2008, , 103-107.		1
110	Nearest Neighbor Queries in Network Databases. , 2008, , 772-776.		6
111	Top-k OLAP Queries Using Augmented Spatial Access Methods. , 2008, , 1156-1161.		0
112	Top-k Spatial Preference Queries. , 2007, , .		53
113	Discovery of Periodic Patterns in Spatiotemporal Sequences. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 453-467.	4.0	112
114	Reverse Nearest Neighbors Search in Ad Hoc Subspaces. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 412-426.	4.0	38
115	Efficient top- k aggregation of ranked inputs. ACM Transactions on Database Systems, 2007, 32, 19.	1.5	86
116	Retrieval of Spatial Join Pattern Instances from Sensor Networks. International Conference on Scientific and Statistical Database Management: [proceedings] International Conference on Scientific and Statistical Database Management, 2007, , .	0.0	7
117	The Haar+ Tree: A Refined Synopsis Data Structure. , 2007, , .		18
118	Continuous Constraint Query Evaluation for Spatiotemporal Streams. Lecture Notes in Computer Science, 2007, , 348-365.	1.0	3
119	Discovery of Collocation Episodes in Spatiotemporal Data. IEEE International Conference on Data Mining, 2006, , .	0.0	34
120	Reverse nearest neighbors in large graphs. IEEE Transactions on Knowledge and Data Engineering, 2006, 18, 540-553.	4.0	59
121	Efficient Quantile Retrieval on Multi-dimensional Data. Lecture Notes in Computer Science, 2006, , 167-185.	1.0	5
122	Fast and Exact Warping of Time Series Using Adaptive Segmental Approximations. Machine Learning, 2005, 58, 231-267.	3.4	29
123	Iterative projected clustering by subspace mining. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 176-189.	4.0	54
124	Aggregate nearest neighbor queries in road networks. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 820-833.	4.0	176
125	On Discovering Moving Clusters in Spatio-temporal Data. Lecture Notes in Computer Science, 2005, , 364-381.	1.0	287
126	Probabilistic Spatial Queries on Existentially Uncertain Data. Lecture Notes in Computer Science, 2005, , 400-417.	1.0	65

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127	Discovering Partial Periodic Patterns in Discrete Data Sequences. Lecture Notes in Computer Science, 2004, , 653-658.	1.0	46
128	An efficient and scalable algorithm for clustering XML documents by structure. IEEE Transactions on Knowledge and Data Engineering, 2004, 16, 82-96.	4.0	140
129	Clustering objects on a spatial network. , 2004, , .		90
130	Mining, indexing, and querying historical spatiotemporal data. , 2004, , .		214
131	An efficient cost model for optimization of nearest neighbor search in low and medium dimensional spaces. IEEE Transactions on Knowledge and Data Engineering, 2004, 16, 1169-1184.	4.0	60
132	Fast mining of spatial collocations. , 2004, , .		83
133	Complex Spatial Query Processing. Geoinformatica, 2004, 8, 311-346.	2.0	4
134	Constraint Satisfaction in Semi-structured Data Graphs. Lecture Notes in Computer Science, 2004, , 393-407.	1.0	3
135	Discovering Minimal Infrequent Structures from XML Documents. Lecture Notes in Computer Science, 2004, , 291-302.	1.0	0
136	Non-contiguous Sequence Pattern Queries. Lecture Notes in Computer Science, 2004, , 783-800.	1.0	4
137	Slot index spatial join. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 211-231.	4.0	39
138	Efficient processing of joins on set-valued attributes. , 2003, , .		57
139	Evaluation of Iceberg Distance Joins. Lecture Notes in Computer Science, 2003, , 270-288.	1.0	18
140	Optimization of Spatial Joins on Mobile Devices. Lecture Notes in Computer Science, 2003, , 233-251.	1.0	15
141	Query Processing in Spatial Network Databases. , 2003, , 802-813.		437
142	Validity Information Retrieval for Spatio-Temporal Queries: Theoretical Performance Bounds. Lecture Notes in Computer Science, 2003, , 159-178.	1.0	6
143	A Filter Index for Complex Queries on Semi-structured Data. Lecture Notes in Computer Science, 2003, , 397-408.	1.0	0
144	Efficient k-NN search on vertically decomposed data. , 2002, , .		47

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145	View selection using randomized search. Data and Knowledge Engineering, 2002, 42, 89-111.	2.1	74
146	Multiway spatial joins. ACM Transactions on Database Systems, 2001, 26, 424-475.	1.5	82
147	Solving Non-binary CSPs Using the Hidden Variable Encoding. Lecture Notes in Computer Science, 2001, , 168-182.	1.0	10
148	Selectivity Estimation of Complex Spatial Queries. Lecture Notes in Computer Science, 2001, , 155-174.	1.0	19
149	Integration of spatial join algorithms for processing multiple inputs. , 1999, , .		33
150	Processing and optimization of multiway spatial joins using R-trees. , 1999, , .		59
151	Integration of spatial join algorithms for processing multiple inputs. SIGMOD Record, 1999, 28, 1-12.	0.7	27
152	Similarity search in sets and categorical data using the signature tree. , 0, , .		18
153	Frequent-pattern based iterative projected clustering. , 0, , .		18
154	Reverse Nearest Neighbors in Large Graphs. , 0, , .		5