

Nikolaos Mamoulis

List of Publications by Year in descending order

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154
papers

5,204
citations

172457

29
h-index

168389

53
g-index

160
all docs

160
docs citations

160
times ranked

2825
citing authors

#	ARTICLE	IF	CITATIONS
1	Query Processing in Spatial Network Databases. , 2003, , 802-813.		437
2	On Discovering Moving Clusters in Spatio-temporal Data. Lecture Notes in Computer Science, 2005, , 364-381.	1.3	287
3	Mining, indexing, and querying historical spatiotemporal data. , 2004, , .		214
4	Privacy Preservation in the Publication of Trajectories. , 2008, , .		203
5	Privacy-preserving anonymization of set-valued data. Proceedings of the VLDB Endowment, 2008, 1, 115-125.	3.8	200
6	Aggregate nearest neighbor queries in road networks. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 820-833.	5.7	176
7	Location recommendation in location-based social networks using user check-in data. , 2013, , .		175
8	An efficient and scalable algorithm for clustering XML documents by structure. IEEE Transactions on Knowledge and Data Engineering, 2004, 16, 82-96.	5.7	140
9	Discovery of Periodic Patterns in Spatiotemporal Sequences. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 453-467.	5.7	112
10	Optimal matching between spatial datasets under capacity constraints. ACM Transactions on Database Systems, 2010, 35, 1-44.	2.8	101
11	The B dual -Tree: indexing moving objects by space filling curves in the dual space. VLDB Journal, 2008, 17, 379-400.	4.1	98
12	Multi-dimensional top-k dominating queries. VLDB Journal, 2009, 18, 695-718.	4.1	93
13	Clustering objects on a spatial network. , 2004, , .		90
14	Efficient top- k aggregation of ranked inputs. ACM Transactions on Database Systems, 2007, 32, 19.	2.8	86
15	Local and global recoding methods for anonymizing set-valued data. VLDB Journal, 2011, 20, 83-106.	4.1	84
16	Spatio-textual similarity joins. Proceedings of the VLDB Endowment, 2012, 6, 1-12.	3.8	84
17	Fast mining of spatial collocations. , 2004, , .		83
18	Multiway spatial joins. ACM Transactions on Database Systems, 2001, 26, 424-475.	2.8	82

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19	Accelerating SPARQL queries by exploiting hash-based locality and adaptive partitioning. VLDB Journal, 2016, 25, 355-380.	4.1	78
20	View selection using randomized search. Data and Knowledge Engineering, 2002, 42, 89-111.	3.4	74
21	Fairness in Package-to-Group Recommendations. , 2017, , .		66
22	Overlapping Community Regularization for Rating Prediction in Social Recommender Systems. , 2015, , .		65
23	Probabilistic Spatial Queries on Existentially Uncertain Data. Lecture Notes in Computer Science, 2005, , 400-417.	1.3	65
24	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.	5.7	60
25	Processing and optimization of multiway spatial joins using R-trees. , 1999, , .		59
26	Reverse nearest neighbors in large graphs. IEEE Transactions on Knowledge and Data Engineering, 2006, 18, 540-553.	5.7	59
27	Efficient processing of joins on set-valued attributes. , 2003, , .		57
28	Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1466-1479.	5.7	56
29	Density-based place clustering in geo-social networks. , 2014, , .		55
30	Iterative projected clustering by subspace mining. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 176-189.	5.7	54
31	Top-k Spatial Preference Queries. , 2007, , .		53
32	Querying Uncertain Spatio-Temporal Data. , 2012, , .		52
33	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.	1.2	52
34	Efficient Fault-Tolerant Group Recommendation Using alpha-beta-core. , 2017, , .		49
35	Efficient k-NN search on vertically decomposed data. , 2002, , .		47
36	Efficient Evaluation of Probabilistic Advanced Spatial Queries on Existentially Uncertain Data. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 108-122.	5.7	47

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37	Discovering Partial Periodic Patterns in Discrete Data Sequences. Lecture Notes in Computer Science, 2004, , 653-658.	1.3	46
38	Slot index spatial join. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 211-231.	5.7	39
39	Reverse Nearest Neighbors Search in Ad Hoc Subspaces. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 412-426.	5.7	38
40	FEXIPRO. , 2017, , .		38
41	Evaluating SPARQL queries on massive RDF datasets. Proceedings of the VLDB Endowment, 2015, 8, 1848-1851.	3.8	36
42	Discovery of Collocation Episodes in Spatiotemporal Data. IEEE International Conference on Data Mining, 2006, , .	0.0	34
43	Scalable Probabilistic Similarity Ranking in Uncertain Databases. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1234-1246.	5.7	34
44	Integration of spatial join algorithms for processing multiple inputs. , 1999, , .		33
45	An audit environment for outsourcing of frequent itemset mining. Proceedings of the VLDB Endowment, 2009, 2, 1162-1173.	3.8	33
46	Optimal Route Queries with Arbitrary Order Constraints. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1097-1110.	5.7	32
47	Fast and Exact Warping of Time Series Using Adaptive Segmental Approximations. Machine Learning, 2005, 58, 231-267.	5.4	29
48	Ranking Spatial Data by Quality Preferences. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 433-446.	5.7	29
49	Earth mover's distance based similarity search at scale. Proceedings of the VLDB Endowment, 2013, 7, 313-324.	3.8	29
50	Joint Search by Social and Spatial Proximity. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 781-793.	5.7	28
51	Integration of spatial join algorithms for processing multiple inputs. SIGMOD Record, 1999, 28, 1-12.	1.2	27
52	Translation-Based Sequential Recommendation for Complex Users on Sparse Data. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1639-1651.	5.7	27
53	Recommending Packages to Groups. , 2016, , .		26
54	Personalized location recommendation by aggregating multiple recommenders in diversity. Geoinformatica, 2017, 21, 459-484.	2.7	24

#	ARTICLE	IF	CITATIONS
55	HBGG: a Hierarchical Bayesian Geographical Model for Group Recommendation. , 2017, , 372-380.		24
56	On Spatial Pattern Matching. , 2018, , .		23
57	Reverse top-k search using random walk with restart. Proceedings of the VLDB Endowment, 2014, 7, 401-412.	3.8	22
58	A forward scan based plane sweep algorithm for parallel interval joins. Proceedings of the VLDB Endowment, 2017, 10, 1346-1357.	3.8	21
59	Interesting-phrase mining for ad-hoc text analytics. Proceedings of the VLDB Endowment, 2010, 3, 1348-1357.	3.8	20
60	A topic-based reviewer assignment system. Proceedings of the VLDB Endowment, 2015, 8, 1852-1855.	3.8	20
61	Top-k Relevant Semantic Place Retrieval on Spatial RDF Data. , 2016, , .		19
62	Selectivity Estimation of Complex Spatial Queries. Lecture Notes in Computer Science, 2001, , 155-174.	1.3	19
63	Similarity search in sets and categorical data using the signature tree. , 0, , .		18
64	Frequent-pattern based iterative projected clustering. , 0, , .		18
65	Evaluation of Iceberg Distance Joins. Lecture Notes in Computer Science, 2003, , 270-288.	1.3	18
66	The Haar+ Tree: A Refined Synopsis Data Structure. , 2007, , .		18
67	Continuous spatial assignment of moving users. VLDB Journal, 2010, 19, 141-160.	4.1	18
68	Durable top-k search in document archives. , 2010, , .		18
69	Managing uncertainty in spatial and spatio-temporal data. , 2014, , .		18
70	An effective encoding scheme for spatial RDF data. Proceedings of the VLDB Endowment, 2014, 7, 1271-1282.	3.8	18
71	Diverse and Proportional Size-l Object Summaries for Keyword Search. , 2015, , .		18
72	A revisit to social network-based recommender systems. , 2014, , .		17

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73	Location Aware Keyword Query Suggestion Based on Document Proximity. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 82-97.	5.7	16
74	Investment recommendation by discovering high-quality opinions in investor based social networks. Information Systems, 2018, 78, 189-198.	3.6	16
75	Optimization of Spatial Joins on Mobile Devices. Lecture Notes in Computer Science, 2003, , 233-251.	1.3	15
76	Computation and Monitoring of Exclusive Closest Pairs. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 1641-1654.	5.7	15
77	Set containment join revisited. Knowledge and Information Systems, 2016, 49, 375-402.	3.2	15
78	Textually Relevant Spatial Skylines. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 224-237.	5.7	15
79	Parallel In-Memory Evaluation of Spatial Joins. , 2019, , .		15
80	Efficient skyline evaluation over partially ordered domains. Proceedings of the VLDB Endowment, 2010, 3, 1255-1266.	3.8	14
81	Spatial Data Management. Synthesis Lectures on Data Management, 2011, 3, 1-149.	0.6	14
82	Diverse and proportional size-l object summaries using pairwise relevance. VLDB Journal, 2016, 25, 791-816.	4.1	14
83	HHMF: hidden hierarchical matrix factorization for recommender systems. Data Mining and Knowledge Discovery, 2019, 33, 1548-1582.	3.7	14
84	Versatile Size- ℓ Object Summaries for Relational Keyword Search. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1026-1038.	5.7	13
85	Dominance relationship analysis with budget constraints. Knowledge and Information Systems, 2015, 42, 409-440.	3.2	13
86	Spatial joins. SIGSPATIAL Special, 2019, 11, 13-21.	2.7	13
87	Diversified spatial keyword search on RDF data. VLDB Journal, 2020, 29, 1171-1189.	4.1	13
88	Common Influence Join: A Natural Join Operation for Spatial Pointsets. , 2008, , .		12
89	Geo-Social Co-location Mining. , 2015, , .		11
90	Efficient Notification of Meeting Points for Moving Groups via Independent Safe Regions. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1767-1781.	5.7	10

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91	In-Memory Interval Joins. VLDB Journal, 2021, 30, 667-691.	4.1	10
92	Solving Non-binary CSPs Using the Hidden Variable Encoding. Lecture Notes in Computer Science, 2001, , 168-182.	1.3	10
93	T-Crowd: Effective Crowdsourcing for Tabular Data. , 2018, , .		9
94	Scaling similarity joins over tree-structured data. Proceedings of the VLDB Endowment, 2015, 8, 1130-1141.	3.8	9
95	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
96	Thematic ranking of object summaries for keyword search. Data and Knowledge Engineering, 2018, 113, 1-17.	3.4	7
97	Recommending packages with validity constraints to groups of users. Knowledge and Information Systems, 2018, 54, 345-374.	3.2	7
98	Evaluating pattern matching queries for spatial databases. VLDB Journal, 2019, 28, 649-673.	4.1	7
99	A Crowdsourcing Framework for Collecting Tabular Data. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2060-2074.	5.7	7
100	SpaceKey: Exploring Patterns in Spatial Databases. , 2018, , .		6
101	SRX: efficient management of spatial RDF data. VLDB Journal, 2019, 28, 703-733.	4.1	6
102	Top-k relevant semantic place retrieval on spatiotemporal RDF data. VLDB Journal, 2020, 29, 893-917.	4.1	6
103	Fast and Secure Distributed Nonnegative Matrix Factorization. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 653-666.	5.7	6
104	Nearest Neighbor Queries in Network Databases. , 2008, , 772-776.		6
105	Validity Information Retrieval for Spatio-Temporal Queries: Theoretical Performance Bounds. Lecture Notes in Computer Science, 2003, , 159-178.	1.3	6
106	Reverse Nearest Neighbors in Large Graphs. , 0, , .		5
107	Special issue on data management for mobile services. VLDB Journal, 2011, 20, 641-642.	4.1	5
108	Lightweight privacy-preserving peer-to-peer data integration. Proceedings of the VLDB Endowment, 2013, 6, 157-168.	3.8	5

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109	Proportionality in Spatial Keyword Search. , 2021, , .		5
110	Efficient Quantile Retrieval on Multi-dimensional Data. Lecture Notes in Computer Science, 2006, , 167-185.	1.3	5
111	Complex Spatial Query Processing. Geoinformatica, 2004, 8, 311-346.	2.7	4
112	Efficient Evaluation of Multiple Preference Queries. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	4
113	Location-Aware Query Recommendation for Search Engines at Scale. Lecture Notes in Computer Science, 2017, , 203-220.	1.3	4
114	Non-contiguous Sequence Pattern Queries. Lecture Notes in Computer Science, 2004, , 783-800.	1.3	4
115	Extracting k most important groups from data efficiently. Data and Knowledge Engineering, 2008, 66, 289-310.	3.4	3
116	Retrieval of Spatial Join Pattern Instances from Sensor Networks. Geoinformatica, 2009, 13, 57-84.	2.7	3
117	Maximizing a Record's Standing in a Relation. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2401-2414.	5.7	3
118	Joint search by social and spatial proximity. , 2016, , .		3
119	More focus on what you care about: Personalized top reviews set. Neurocomputing, 2017, 254, 3-12.	5.9	3
120	Continuous Constraint Query Evaluation for Spatiotemporal Streams. Lecture Notes in Computer Science, 2007, , 348-365.	1.3	3
121	Constraint Satisfaction in Semi-structured Data Graphs. Lecture Notes in Computer Science, 2004, , 393-407.	1.3	3
122	HINT: A Hierarchical Index for Intervals in Main Memory. , 2022, , .		3
123	P-LAG: Location-Aware Group Recommendation for Passive Users. Lecture Notes in Computer Science, 2017, , 242-259.	1.3	2
124	DSANLS. , 2018, , .		2
125	Recommending Geo-semantically Related Classes for Link Discovery. Journal on Data Semantics, 2020, 9, 151-177.	2.0	2
126	Efficient notification of meeting points for moving groups via independent safe regions. , 2013, , .		1

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127	Snapshot and continuous points-based trajectory search. <i>Geoinformatica</i> , 2017, 21, 669-701.	2.7	1
128	Location-aware query reformulation for search engines. <i>Geoinformatica</i> , 2018, 22, 869-893.	2.7	1
129	Discovering closed and maximal embedded patterns from large tree data. <i>Data and Knowledge Engineering</i> , 2021, 133, 101890.	3.4	1
130	Co-location Patterns, Algorithms. , 2008, , 103-107.		1
131	Spatio-Temporal Data Mining. , 2009, , 2725-2730.		1
132	A General Early-Stopping Module for Crowdsourced Ranking. <i>Lecture Notes in Computer Science</i> , 2020, , 314-330.	1.3	1
133	Thresholded Range Aggregation in Sensor Networks. , 2009, , .		0
134	Special section on spatial and temporal databases. <i>Geoinformatica</i> , 2011, 15, 663-664.	2.7	0
135	Spatial inverse query processing. <i>Geoinformatica</i> , 2012, 17, 449.	2.7	0
136	Nearest Neighbor Queries in Network Databases. , 2016, , 1-7.		0
137	Co-location Patterns, Algorithms. , 2016, , 1-7.		0
138	Query Processing: Joins. , 2019, , 1345-1351.		0
139	Top-k spatial distance joins. <i>Geoinformatica</i> , 2020, 24, 591-631.	2.7	0
140	Guest editorial: WWWJ special issue of the 20th international conference on Web information systems engineering (WISE 2019). <i>World Wide Web</i> , 2021, 24, 347-349.	4.0	0
141	A Filter Index for Complex Queries on Semi-structured Data. <i>Lecture Notes in Computer Science</i> , 2003, , 397-408.	1.3	0
142	Discovering Minimal Infrequent Structures from XML Documents. <i>Lecture Notes in Computer Science</i> , 2004, , 291-302.	1.3	0
143	Top-k OLAP Queries Using Augmented Spatial Access Methods. , 2008, , 1156-1161.		0
144	Temporal Data Mining. , 2009, , 2948-2952.		0

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145	Variations of Nearest Neighbor Queries in Euclidean Space. , 2015, , 1-6.		0
146	Temporal Data Mining. , 2016, , 1-6.		0
147	Top-k OLAP Queries Using Augmented Spatial Access Methods. , 2016, , 1-6.		0
148	Nearest Neighbor Queries in Network Databases. , 2017, , 1426-1433.		0
149	Indexing, BDual Tree. , 2017, , 973-979.		0
150	Top-k OLAP Queries Using Augmented Spatial Access Methods. , 2017, , 2252-2258.		0
151	Co-location Patterns, Algorithms. , 2017, , 254-260.		0
152	Temporal Data Mining. , 2018, , 3935-3940.		0
153	Spatiotemporal Data Mining. , 2018, , 3633-3639.		0
154	Top-k String Similarity Joins. , 2020, , .		0