Gao Cong

List of Publications by Year
in descending order

153 papers	8,017 citations	186265 28 h-index	144013 57 g-index
154 all docs	154 docs citations	154 times ranked	4076 citing authors

#	Article	IF	Citations
1	Similar Sports Play Retrieval With Deep Reinforcement Learning. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 4253-4266.	5.7	2
2	Deterministic Inference of Topic Models via Maximal Latent State Replication. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1684-1695.	5.7	1
3	PGeoTopic: A Distributed Solution for Mining Geographical Topic Models. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 881-893.	5.7	1
4	Learning Dynamics and Heterogeneity of Spatial-Temporal Graph Data for Traffic Forecasting. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5415-5428.	5.7	152
5	A Survey on Trajectory Data Management, Analytics, and Learning. ACM Computing Surveys, 2022, 54, 1-36.	23.0	96
6	Location- and keyword-based querying of geo-textual data: a survey. VLDB Journal, 2021, 30, 603-640.	4.1	20
7	Trajectory Simplification with Reinforcement Learning. , 2021, , .		12
8	Sinkhorn Collaborative Filtering. , 2021, , .		2
9	STAR. , 2021, , .		1
10	Points-of-interest relationship inference with spatial-enriched graph neural networks. Proceedings of the VLDB Endowment, 2021, 15, 504-512.	3.8	6
11	SURGE: Continuous Detection of Bursty Regions Over a Stream of Spatial Objects. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2254-2268.	5.7	5
12	Modeling Marked Temporal Point Process Using Multi-relation Structure RNN. Cognitive Computation, 2020, 12, 499-512.	5.2	4
13	Densely Connected User Community and Location Cluster Search in Location-Based Social Networks. , 2020, , .		18
14	Context-aware Deep Model for Joint Mobility and Time Prediction. , 2020, , .		33
15	HME. , 2020, , .		65
16	Efficient and effective similar subtrajectory search with deep reinforcement learning. Proceedings of the VLDB Endowment, 2020, 13, 2312-2325.	3.8	17
17	STAR: A Distributed Stream Warehouse System for Spatial Data. , 2020, , .		7
18	SSTD. Proceedings of the VLDB Endowment, 2020, 13, 2284-2296.	3.8	12

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19	Effective and Efficient Sports Play Retrieval with Deep Representation Learning. , 2019, , .		19
20	Evaluating pattern matching queries for spatial databases. VLDB Journal, 2019, 28, 649-673.	4.1	7
21	Interact and Decide. , 2019, , .		38
22	Exploring market competition over topics in spatio-temporal document collections. VLDB Journal, 2019, 28, 123-145.	4.1	4
23	Spatio-textual Data. , 2019, , 1580-1587.		0
24	Reverse k Nearest Neighbor Search over Trajectories. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 757-771.	5.7	30
25	Linking Fine-Grained Locations in User Comments. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 59-72.	5.7	14
26	Inf2vec: Latent Representation Model for Social Influence Embedding. , 2018, , .		43
27	SURGE: Continuous Detection of Bursty Regions over a Stream of Spatial Objects. , 2018, , .		9
28	Linking Fine-Grained Locations in User Comments (Extended Abstract). , 2018, , .		0
29	On Spatial Pattern Matching. , 2018, , .		23
30	Deep Representation Learning for Trajectory Similarity Computation. , 2018, , .		108
31	ANR. , 2018, , .		101
32	Reverse k Nearest Neighbor Search over Trajectories (Extended Abstract). , 2018, , .		3
33	SpaceKey: Exploring Patterns in Spatial Databases. , 2018, , .		6
34	POIsam. , 2018, , .		3
35	Efficient Similar Region Search with Deep Metric Learning. , 2018, , .		17
36	Finding Seeds and Relevant Tags Jointly. , 2018, , .		16

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37	Efficient Selection of Geospatial Data on Maps for Interactive and Visualized Exploration. , 2018, , .		37
38	Spatiotemporal Topic Detection from Social Media. , 2018, , 2948-2956.		0
39	Spatio-Textual Data. , 2018, , 1-8.		0
40	High-dimensional Similarity Learning via Dual-sparse Random Projection. , 2018, , .		2
41	PANDA. Proceedings of the VLDB Endowment, 2018, 11, 1966-1969.	3.8	1
42	MR-NTD: Manifold Regularization Nonnegative Tucker Decomposition for Tensor Data Dimension Reduction and Representation. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1787-1800.	11.3	81
43	PRED. , 2017, , .		62
44	Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1172-1185.	5.7	47
45	A General Model for Out-of-town Region Recommendation. , 2017, , .		28
46	PANDA: toward partial topology-based search on large networks in a single machine. VLDB Journal, 2017, 26, 203-228.	4.1	11
47	Influence Maximization in Trajectory Databases. , 2017, , .		2
48	Distributed Publish/Subscribe Query Processing on the Spatio-Textual Data Stream. , 2017, , .		42
49	An experimental evaluation of point-of-interest recommendation in location-based social networks. Proceedings of the VLDB Endowment, 2017, 10, 1010-1021.	3.8	207
50	Distributed Algorithms on Exact Personalized PageRank. , 2017, , .		25
51	Discovering Pollution Sources and Propagation Patterns in Urban Area. , 2017, , .		22
52	Proxies for Shortest Path and Distance Queries. , 2017, , .		0
53	Influence Maximization in Trajectory Databases. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 627-641.	5.7	44
54	Robust Self-Tuning Sparse Subspace Clustering. , 2017, , .		0

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55	Spatiotemporal Topic Detection from Social Media. , 2017, , 1-9.		0
56	A system for region search and exploration. Proceedings of the VLDB Endowment, 2016, 9, 1549-1552.	3.8	4
57	Topic Exploration in Spatio-Temporal Document Collections. , 2016, , .		36
58	ConTrack: A Scalable Method for Tracking Multiple Concepts in Large Scale Multidimensional Data. , 2016, , .		1
59	Towards Best Region Search for Data Exploration. , 2016, , .		60
60	A General Recommendation Model for Heterogeneous Networks. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 3140-3153.	5.7	71
61	Querying and mining geo-textual data for exploration: Challenges and opportunities. , 2016, , .		7
62	Annotating Points of Interest with Geo-tagged Tweets. , 2016, , .		15
63	Joint Recognition and Linking of Fine-Grained Locations from Tweets. , 2016, , .		31
64	Querying Geo-Textual Data. , 2016, , .		36
65	Learning to Find Topic Experts in Twitter via Different Relations. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1764-1778.	5.7	29
66	Maximizing influence under influence loss constraint in social networks. Expert Systems With Applications, 2016, 55, 255-267.	7.6	25
67	Proxies for Shortest Path and Distance Queries. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1835-1850.	5.7	17
68	Efficient Processing of Location-Aware Group Preference Queries. , 2016, , .		26
69	Efficient algorithms for answering reverse spatial-keyword nearest neighbor queries. , 2015, , .		3
70	A general graph-based model for recommendation in event-based social networks. , 2015, , .		80
71	An Association-Based Unified Framework for Mining Features and Opinion Words. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-21.	4.5	14
72	SAR: A sentiment-aspect-region model for user preference analysis in geo-tagged reviews. , 2015, , .		45

#	ARTICLE	IF	CITATIONS
73	Who, Where, When, and What. ACM Transactions on Information Systems, 2015, 33, 1-33.	4.9	69
74	Efficient Processing of Spatial Group Keyword Queries. ACM Transactions on Database Systems, 2015, 40, 1-48.	2.8	58
75	Efficient Algorithms for Answering the m-Closest Keywords Query. , 2015, , .		77
76	Diversity-Aware Top-k Publish/Subscribe for Text Stream. , 2015, , .		42
77	Rank-GeoFM. , 2015, , .		237
78	Temporal Spatial-Keyword Top-k publish/subscribe. , 2015, , .		104
79	Where you Instagram?. , 2015, , .		14
80	Tagging Your Tweets. , 2014, , .		35
81	Graph-based Point-of-interest Recommendation with Geographical and Temporal Influences. , 2014, , .		170
82	Coarse-to-fine review selection via supervised joint aspect and sentiment model. , 2014, , .		19
83	Where your photo is taken: Geolocation prediction for social images. Journal of the Association for Information Science and Technology, 2014, 65, 1232-1243.	2.9	16
84	In search of influential event organizers in online social networks. , 2014, , .		42
85	Effective and Efficient Clustering Methods for Correlated Probabilistic Graphs. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1117-1130.	5.7	19
86	Influence Spreading Path and Its Application to the Time Constrained Social Influence Maximization Problem and Beyond. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1904-1917.	5.7	79
87	3D Subspace Clustering for Value Investing. IEEE Intelligent Systems, 2014, 29, 52-59.	4.0	1
88	COM. , 2014, , .		137
89	Efficient Algorithms and Cost Models for Reverse Spatial-Keyword k-Nearest Neighbor Search. ACM Transactions on Database Systems, 2014, 39, 1-46.	2.8	32
90	SOPS. Proceedings of the VLDB Endowment, 2014, 7, 1601-1604.	3.8	20

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91	Retrieving regions of interest for user exploration. Proceedings of the VLDB Endowment, 2014, 7, 733-744.	3.8	33
92	Time-aware point-of-interest recommendation. , 2013, , .		527
93	Who, where, when and what. , 2013, , .		179
94	On predicting the popularity of newly emerging hashtags in <scp>T</scp>witter. Journal of the Association for Information Science and Technology, 2013, 64, 1399-1410.	2.6	179
95	Centroid-Based Actionable 3D Subspace Clustering. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1213-1226.	5.7	16
96	KORS: Keyword-aware Optimal Route Search System. , 2013, , .		5
97	Efficient proximity detection among mobile objects in road networks with self-adjustment methods. , 2013, , .		3
98	A survey on enhanced subspace clustering. Data Mining and Knowledge Discovery, 2013, 26, 332-397.	3.7	124
99	An efficient query indexing mechanism for filtering geo-textual data. , 2013, , .		84
100	Spatial keyword query processing. Proceedings of the VLDB Endowment, 2013, 6, 217-228.	3.8	233
101	Shortest path and distance queries on road networks. Proceedings of the VLDB Endowment, 2012, 5, 406-417.	3.8	111
102	Approaches to Exploring Category Information for Question Retrieval in Community Question-Answer Archives. ACM Transactions on Information Systems, 2012, 30, 1-38.	4.9	34
103	DISKs. Proceedings of the VLDB Endowment, 2012, 5, 1966-1969.	3.8	16
104	On the Complexity of View Update Analysis and Its Application to Annotation Propagation. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 506-519.	5.7	32
105	Will this #hashtag be popular tomorrow?. , 2012, , .		59
106	Overlapping decomposition for causal graphical modeling. , 2012, , .		8
107	Category hierarchy maintenance. , 2012, , .		8
108	Enhancing naive bayes with various smoothing methods for short text classification. , 2012, , .		44

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109	SWORS. Proceedings of the VLDB Endowment, 2012, 5, 1914-1917.	3.8	10
110	Partial Evaluation for Distributed XPath Query Processing and Beyond. ACM Transactions on Database Systems, 2012, 37, 1-43.	2.8	26
111	Keyword-aware optimal route search. Proceedings of the VLDB Endowment, 2012, 5, 1136-1147.	3.8	86
112	A framework for efficient spatial web object retrieval. VLDB Journal, 2012, 21, 797-822.	4.1	111
113	Evolutionary taxonomy construction from dynamic tag space. World Wide Web, 2012, 15, 581-602.	4.0	12
114	Topic-driven reader comments summarization. , 2012, , .		79
115	Time Constrained Influence Maximization in Social Networks. , 2012, , .		119
116	Joint Top-K Spatial Keyword Query Processing. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1889-1903.	5.7	120
117	One seed to find them all. , 2012, , .		63
118	Functional Feature Extraction and Chemical Retrieval. Lecture Notes in Computer Science, 2012, , 507-525.	1.3	2
119	An evaluation of classification models for question topic categorization. Journal of the Association for Information Science and Technology, 2012, 63, 889-903.	2.6	31
120	Extracting representative motion flows for effective video retrieval. Multimedia Tools and Applications, 2012, 58, 687-711.	3.9	5
121	Author Name Disambiguation Using a New Categorical Distribution Similarity. Lecture Notes in Computer Science, 2012, , 569-584.	1.3	20
122	Spatial Keyword Querying. Lecture Notes in Computer Science, 2012, , 16-29.	1.3	91
123	Reverse spatial and textual k nearest neighbor search. , 2011, , .		109
124	Collective spatial keyword querying. , 2011, , .		215
125	Efficient continuously moving top-k spatial keyword query processing. , 2011, , .		122
126	Retrieving top-k prestige-based relevant spatial web objects. Proceedings of the VLDB Endowment, 2010, 3, 373-384.	3.8	87

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127	Updating XML views and querying XML views with update syntax. International Journal of Computational Science and Engineering, 2010, 5, 118.	0.5	0
128	Community-based greedy algorithm for mining top-K influential nodes in mobile social networks. , 2010, , .		381
129	Mining significant semantic locations from GPS data. Proceedings of the VLDB Endowment, 2010, 3, 1009-1020.	3.8	257
130	Content-enriched classifier for web video classification. , 2010, , .		7
131	A generalized framework of exploring category information for question retrieval in community question answer archives. , 2010, , .		72
132	Exploring domain-specific term weight in archived question search. , 2010, , .		18
133	Using Transactional Data from ERP Systems for Expert Finding. Lecture Notes in Computer Science, 2010, , 267-276.	1.3	3
134	ISIS: A New Approach for Efficient Similarity Search in Sparse Databases. Lecture Notes in Computer Science, 2010, , 231-245.	1.3	3
135	Evolutionary Taxonomy Construction from Dynamic Tag Space. Lecture Notes in Computer Science, 2010, , 105-119.	1.3	11
136	Efficient retrieval of the top-k most relevant spatial web objects. Proceedings of the VLDB Endowment, 2009, 2, 337-348.	3.8	402
137	The use of categorization information in language models for question retrieval. , 2009, , .		72
138	Routing Questions to the Right Users in Online Communities. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	75
139	Efficient Algorithm for Computing Link-Based Similarity in Real World Networks. , 2009, , .		17
140	A Revisit of Query Expansion with Different Semantic Levels. Lecture Notes in Computer Science, 2009, , 662-676.	1.3	1
141	Updating Recursive XML Views of Relations. Journal of Computer Science and Technology, 2008, 23, 516-537.	1.5	12
142	Finding question-answer pairs from online forums. , 2008, , .		146
143	Semantic similarity based on compact concept ontology. , 2008, , .		6
144	Updating Recursive XML Views of Relations. , 2007, , .		13

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145	Distributed query evaluation with performance guarantees. , 2007, , .		36
146	Querying xml with update syntax. , 2007, , .		10
147	Query and Update Through XML Views. , 2007, , 81-95.		7
148	An Estimation System for XPath Expressions. , 2006, , .		7
149	Annotation propagation revisited for key preserving views. , 2006, , .		33
150	Exploring composite acoustic features for efficient music similarity query. , 2006, , .		8
151	Summarizing Frequent Patterns Using Profiles. Lecture Notes in Computer Science, 2006, , 171-186.	1.3	2
152	Mining top-K covering rule groups for gene expression data. , 2005, , .		99
153	Carpenter. , 2003, , .		137