Sourav S Bhowmick

List of Publications by Year
in descending order

206 papers	2,236 citations	430874 18 h-index	434195 31 g-index
219 all docs	219 docs citations	219 times ranked	1554 citing authors

#	Article	IF	Citations
1	A survey of Web metrics. ACM Computing Surveys, 2002, 34, 469-503.	23.0	150
2	Conformity-aware influence maximization in online social networks. VLDB Journal, 2015, 24, 117-141.	4.1	66
3	Clustering and Summarizing Protein-Protein Interaction Networks: A Survey. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 638-658.	5.7	61
4	Towards Best Region Search for Data Exploration. , 2016, , .		60
5	Tag-based social image retrieval: An empirical evaluation. Journal of the Association for Information Science and Technology, 2011, 62, 2364-2381.	2.6	50
6	Mobile data and transaction management. Information Sciences, 2002, 141, 279-309.	6.9	49
7	DUALSIM. , 2016, , .		48
8	In search of influential event organizers in online social networks. , 2014, , .		42
9	Time-dependent semantic similarity measure of queries using historical click-through data. , 2006, , .		36
10	Image tag clarity. , 2009, , .		35
11	CASINO. , 2011, , .		34
12	An XML Schema integration and query mechanism system. Data and Knowledge Engineering, 2008, 65, 266-303.	3.4	33
13	Cell-delivery therapeutics for liver regenerationâ˜†. Advanced Drug Delivery Reviews, 2010, 62, 814-826.	13.7	33
14	GetReal. , 2015, , .		32
15	GBLENDER. , 2010, , .		30
16	Quantifying tag representativeness of visual content of social images. , 2010, , .		29
17	FUSE: a profit maximization approach for functional summarization of biological networks. BMC Bioinformatics, 2012, 13, S10.	2.6	29
18	AutoG: a visual query autocompletion framework for graph databases. VLDB Journal, 2017, 26, 347-372.	4.1	27

#	Article	IF	Citations
19	The Past is Not a Foreign Country: Detecting Semantically Similar Terms across Time. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2793-2807.	5.7	26
20	PRAGUE: Towards Blending Practical Visual Subgraph Query Formulation and Query Processing. , 2012, , .		25
21	Plasmin Triggers a Switch-Like Decrease in Thrombospondin-Dependent Activation of TGF-Î²1. Biophysical Journal, 2012, 103, 1060-1068.	0.5	25
22	Efficient Shapelet Discovery for Time Series Classification. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1149-1163.	5.7	25
23	Social image tag recommendation by concept matching. , 2011, , .		24
24	XML structural delta mining: Issues and challenges. Data and Knowledge Engineering, 2006, 59, 627-651.	3.4	22
25	DTD-Diff: A change detection algorithm for DTDs. Data and Knowledge Engineering, 2007, 61, 384-402.	3.4	22
26	QUBLE: towards blending interactive visual subgraph search queries on large networks. VLDB Journal, 2014, 23, 401-426.	4.1	21
27	G-CARE: A Framework for Performance Benchmarking of Cardinality Estimation Techniques for Subgraph Matching. , 2020, , .		20
28	Detecting changes on unordered XML documents using relational databases. , 2005, , .		19
29	Towards Efficient Authenticated Subgraph Query Service in Outsourced Graph Databases. IEEE Transactions on Services Computing, 2014, 7, 696-713.	4.6	19
30	<tt>DualAligner</tt> : a dual alignment-based strategy to align protein interaction networks. Bioinformatics, 2014, 30, 2619-2626.	4.1	19
31	Xandy: Detecting Changes on Large Unordered XML Documents Using Relational Databases. Lecture Notes in Computer Science, 2005, , 711-723.	1.3	18
32	Summarizing static and dynamic big graphs. Proceedings of the VLDB Endowment, 2017, 10, 1981-1984.	3.8	18
33	DEQUE: querying the deep web. Data and Knowledge Engineering, 2005, 52, 273-311.	3.4	17
34	Discovering frequently changing structures from historical structural deltas of unordered XML. , 2004, , .		16
35	Xandy: A scalable change detection technique for ordered XML documents using relational databases. Data and Knowledge Engineering, 2006, 59, 476-507.	3.4	16
36	Why not, WINE?. , 2013, , .		16

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37	Synergistic target combination prediction from curated signaling networks: Machine learning meets systems biology and pharmacology. Methods, 2017, 129, 60-80.	3.8	16
38	Efficient recursive XML query processing using relational database systems. Data and Knowledge Engineering, 2006, 58, 207-242.	3.4	15
39	Authenticated Subgraph Similarity Searchin Outsourced Graph Databases. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1838-1860.	5.7	15
40	Structure-Preserving Subgraph Query Services. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2275-2290.	5.7	15
41	Data-driven visual graph query interface construction and maintenance. Proceedings of the VLDB Endowment, 2016, 9, 984-992.	3.8	15
42	Graph Querying Meets HCI. , 2017, , .		15
43	PICASSO. Proceedings of the VLDB Endowment, 2017, 10, 1861-1864.	3.8	15
44	Characterizing and predicting community members from evolutionary and heterogeneous networks. , 2008, , .		14
45	PRISM. , 2014, , .		14
46	PINOCCHIO: Probabilistic Influence-Based Location Selection over Moving Objects. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 3068-3082.	5.7	14
47	A transaction model and multiversion concurrency control for mobile databaseÂsystems. Distributed and Parallel Databases, 2007, 22, 165-196.	1.6	13
48	Blog cascade affinity. , 2009, , .		13
49	Affinity-driven prediction and ranking of products in online product review sites. , 2010, , .		13
50	MESSIAH. , 2013, , .		13
51	DaVinci: Data-driven visual interface construction for subgraph search in graph databases. , 2015, , .		13
52	XML Data Integration Based on Content and Structure Similarity Using Keys. Lecture Notes in Computer Science, 2008, , 484-493.	1.3	13
53	COWES: Web user clustering based on evolutionary web sessions. Data and Knowledge Engineering, 2009, 68, 867-885.	3.4	12
54	Efficient Estimation of Heat Kernel PageRank for Local Clustering. , 2019, , .		12

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55	Mining Association Rules from Structural Deltas of Historical XML Documents. Lecture Notes in Computer Science, 2004, , 452-457.	1.3	12
56	AutoG. Proceedings of the VLDB Endowment, 2016, 9, 1505-1508.	3.8	12
57	Asymmetric structure-preserving subgraph queries for large graphs. , 2015, , .		11
58	PANDA: toward partial topology-based search on large networks in a single machine. VLDB Journal, 2017, 26, 203-228.	4.1	11
59	BOOMER. , 2018, , .		11
60	Mining Maximal Frequently Changing Subtree Patterns from XML Documents. Lecture Notes in Computer Science, 2004, , 68-76.	1.3	11
61	XANADUE. , 2007, , .		10
62	Pani. , 2011, , .		10
63	Content is still king. , 2012, , .		10
64	Detecting Content Changes on Ordered XML Documents Using Relational Databases. Lecture Notes in Computer Science, 2004, , 580-590.	1.3	10
65	AURORA: Data-driven Construction of Visual Graph Query Interfaces for Graph Databases. , 2020, , .		10
66	FRACTURE mining: Mining frequently and concurrently mutating structures from historical XML documents. Data and Knowledge Engineering, 2006, 59, 320-347.	3.4	9
67	AffRank: Affinity-driven ranking of products in online social rating networks. Journal of the Association for Information Science and Technology, 2011, 62, 1345-1359.	2.6	9
68	Efficient algorithms for generalized subgraph query processing. , 2012, , .		9
69	QUBLE. , 2013, , .		9
70	SURGE: Continuous Detection of Bursty Regions over a Stream of Spatial Objects. , 2018, , .		9
71	CATAPULT. , 2019, , .		9
72	GBLENDER. , 2011, , .		8

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73	DiffNet: Automatic differential functional summarization of dE-MAP networks. Methods, 2014, 69, 247-256.	3.8	8
74	DTD-Diff: A Change Detection Algorithm for DTDs. Lecture Notes in Computer Science, 2006, , 817-827.	1.3	8
75	Interruption-Sensitive Empty Result Feedback. , 2015, , .		8
76	Path Travel Time Estimation using Attribute-related Hybrid Trajectories Network. , 2019, , .		8
77	Towards plug-and-play visual graph query interfaces. Proceedings of the VLDB Endowment, 2021, 14, 1979-1991.	3.8	8
78	Detecting and representing relevant web deltas in WHOWEDA. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 423-441.	5.7	7
79	Steady States and Dynamics of Urokinase-Mediated Plasmin Activation In Silico and InÂVitro. Biophysical Journal, 2011, 101, 1825-1834.	0.5	7
80	TENET: topological feature-based target characterization in signalling networks. Bioinformatics, 2015, 31, 3306-3314.	4.1	7
81	Computational cell fate modelling for discovery of rewiring in apoptotic network for enhanced cancer drug sensitivity. BMC Systems Biology, 2015, 9, S4.	3.0	7
82	VISUAL: Simulation of Visual Subgraph Query Formulation to Enable Automated Performance Benchmarking. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1765-1778.	5.7	7
83	Conflict of Interest Declaration and Detection System in Heterogeneous Networks. , 2017, , .		7
84	A Generic Ontology Framework for Indexing Keyword Search on Massive Graphs. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2322-2336.	5.7	7
85	Privacy Preserving Strong Simulation Queries on Large Graphs. , 2021, , .		7
86	MIDAS: Towards Efficient and Effective Maintenance of Canned Patterns in Visual Graph Query Interfaces. , 2021, , .		7
87	Discovering Pattern-Based Dynamic Structures from Versions of Unordered XML Documents. Lecture Notes in Computer Science, 2004, , 77-86.	1.3	7
88	LATTE: Visual Construction of Smart Contracts. , 2020, , .		7
89	Schemas for web data: a reverse engineering approach. Data and Knowledge Engineering, 2001, 39, 105-142.	3.4	6
90	Deriving and verifying statistical distribution of a hyperlink-based Web page quality metric. Data and Knowledge Engineering, 2003, 46, 291-315.	3.4	6

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91	WAM-Miner. , 2005, , .		6
92	Efficient evaluation of high-selective xml twig patterns with parent child edges in tree-unaware rdbms. , 2007, , .		6
93	Efficient processing of XPath queries using indexes. Information Systems, 2007, 32, 131-159.	3.6	6
94	PIGEON: Progress indicator for subgraph queries. , 2015, , .		6
95	Efficient Support for Ordered XPath Processing in Tree-Unaware Commercial Relational Databases. , 2007, , 793-806.		6
96	Anatomy of the coupling query in a web warehouse. Information and Software Technology, 2002, 44, 513-539.	4.4	5
97	Representation of Web Data in A Web Warehouse. Computer Journal, 2003, 46, 229-262.	2.4	5
98	Bio2X: a rule-based approach for semi-automatic transformation of semi-structured biological data to XML. Data and Knowledge Engineering, 2005, 52, 249-271.	3.4	5
99	Mapping, indexing and querying of MPEG-7 descriptors in RDBMS with IXMDB. Data and Knowledge Engineering, 2007, 63, 224-257.	3.4	5
100	Fuse. , 2011, , .		5
101	ViSual: An HCI-inspired simulator for blending visual subgraph query construction and processing. , 2015, , .		5
102	PINOCCHIO: Probabilistic Influence-Based Location Selection over Moving Objects. , 2017, , .		5
103	Onâ€demand recent personal tweets summarization on mobile devices. Journal of the Association for Information Science and Technology, 2019, 70, 547-562.	2.9	5
104	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
105	FERRARI: an efficient framework for visual exploratory subgraph search in graph databases. VLDB Journal, 2020, 29, 973-998.	4.1	5
106	DB âˆ HCI: Towards Bridging the Chasm between Graph Data Management and HCI. Lecture Notes in Computer Science, 2014, , 1-11.	1.3	5
107	Efficient Database-Driven Evaluation of Security Clearance for Federated Access Control of Dynamic XML Documents. Lecture Notes in Computer Science, 2010, , 299-306.	1.3	5
108	Quantifying Visual-Representativeness of Social Image Tags Using Image Tag Clarity. , 2011, , 3-23.		5

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109	FROST. ACM Transactions on Intelligent Systems and Technology, 2020, 11, 1-26.	4.5	5
110	PIANO: Influence Maximization Meets Deep Reinforcement Learning. IEEE Transactions on Computational Social Systems, 2023, 10, 1288-1300.	4.4	5
111	Data-driven Visual Query Interfaces for Graphs: Past, Present, and (Near) Future. , 2022, , .		5
112	XBLEND: Visual XML Query Formulation Meets Query Processing. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	4
113	CASIS. , 2012, , .		4
114	Integrating historical noisy answers for improving data utility under differential privacy. , 2012, , .		4
115	Querying virtual hierarchies using virtual prefix-based numbers. , 2014, , .		4
116	Affinity-driven blog cascade analysis and prediction. Data Mining and Knowledge Discovery, 2014, 28, 442-474.	3.7	4
117	Side-Effect Estimation: A Filtering Approach to the View Update Problem. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2307-2322.	5.7	4
118	TOTEM. , 2017, , .		4
119	Every Word has its History. , 2018, , .		4
120	Ranking Without Learning. , 2018, , .		4
121	PISTIS. , 2018, , .		4
122	Mapping Entity Sets in News Archives Across Time. Data Science and Engineering, 2019, 4, 208-222.	6.4	4
123	Oxone: A Scalable Solution for Detecting Superior Quality Deltas on Ordered Large XML Documents. Lecture Notes in Computer Science, 2006, , 196-211.	1.3	4
124	Deriving and Verifying Statistical Distribution of a Hyperlink-Based Web Page Quality Metric. Lecture Notes in Computer Science, 2002, , 19-28.	1.3	4
125	Efficient Evaluation of NOT-Twig Queries in Tree-Unaware Relational Databases. Lecture Notes in Computer Science, 2011, , 511-527.	1.3	4
126	MustBlend: Blending Visual Multi-Source Twig Query Formulation and Query Processing in RDBMS. Lecture Notes in Computer Science, 2013, , 228-243.	1.3	4

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127	PLAYPEN: Plug-and-Play Visual Graph Query Interfaces for Top-down and Bottom-Up Search on Large Networks. , 2022, , .		4
128	Cost-benefit analysis of web bag in a web warehouse: An analytical approach. World Wide Web, 2000, 3, 165-184.	4.0	3
129	Data Visualization Operators for Whoweda. Computer Journal, 2000, 43, 364-385.	2.4	3
130	HW-STALKER: A machine learning-based system for transforming QURE-Pagelets to XML. Data and Knowledge Engineering, 2005, 54, 241-276.	3.4	3
131	Mining conserved XML query paths for dynamic-conscious caching. , 2005, , .		3
132	Efficient maintenance of common keys in archives of continuous query results from deep websites. , 2011, , .		3
133	FACETS: multi-faceted functional decomposition of protein interaction networks. Bioinformatics, 2012, 28, 2624-2631.	4.1	3
134	Querying XML Data: As You Shape It. , 2012, , .		3
135	Summarizing social image search results. , 2014, , .		3
136	GFocus: User Focus-based Graph Query Autocompletion. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	5.7	3
137	PPKWS: An Efficient Framework for Keyword Search on Public-Private Networks. , 2020, , .		3
138	Efficient Shapelet Discovery for Time Series Classification (Extended Abstract). , 2021, , .		3
139	On Formulation of Disjunctive Coupling Queries in WHOWEDA. Lecture Notes in Computer Science, 2001, , 688-698.	1.3	3
140	Imposing Disjunctive Constraints on Inter-document Structure. Lecture Notes in Computer Science, 2001, , 723-733.	1.3	3
141	Constraint-Free Join Processing on Hyperlinked Web Data. Lecture Notes in Computer Science, 2002, , 255-264.	1.3	3
142	SINBAD: Towards Structure-Independent Querying of Common Neighbors in XML Databases. Lecture Notes in Computer Science, 2012, , 156-171.	1.3	3
143	Document in Context of its Time (DICT). , 2019, , .		3
144	In the Search of NECTARs from Evolutionary Trees. Lecture Notes in Computer Science, 2009, , 714-729.	1.3	3

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145	CHASSIS: Conformity Meets Online Information Diffusion. , 2020, , .		3
146	FLAG: Towards Graph Query Autocompletion for Large Graphs. Data Science and Engineering, 2022, 7, 175-191.	6.4	3
147	FASST Mining: Discovering Frequently Changing Semantic Structure from Versions of Unordered XML Documents. Lecture Notes in Computer Science, 2005, , 724-735.	1.3	2
148	Towards non-directional Xpath evaluation in a RDBMS. , 2009, , .		2
149	STEROID. , 2012, , .		2
150	ANDES: efficient evaluation of NOT-twig queries in relational databases. VLDB Journal, 2012, 21, 889-914.	4.1	2
151	Incremental Maintenance of the Minimum Bisimulation of Cyclic Graphs. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2536-2550.	5.7	2
152	Why not, WINE?. , 2014, , .		2
153	TAPESTRY. , 2016, , .		2
154	NEURON. , 2019, , .		2
155	FGreat: Focused Graph Query Autocompletion. , 2019, , .		2
156	SM3+: An XML Database Solution for the Management of MPEG-7 Descriptions. Lecture Notes in Computer Science, 2005, , 134-144.	1.3	2
157	i Wed: An Integrated Multigraph Cut-Based Approach for Detecting Events from a Website. Lecture Notes in Computer Science, 2006, , 351-360.	1.3	2
158	HW-STALKER: A Machine Learning-Based Approach to Transform Hidden Web Data to XML. Lecture Notes in Computer Science, 2004, , 936-946.	1.3	2
159	Using XMorph to transform XML data. Proceedings of the VLDB Endowment, 2010, 3, 1541-1544.	3.8	2
160	PRISM. Proceedings of the VLDB Endowment, 2015, 8, 1868-1871.	3.8	2
161	Efficient XML Query Processing in RDBMS Using GUI-Driven Prefetching in a Single-User Environment. Lecture Notes in Computer Science, 2007, , 819-833.	1.3	2
162	i AVATAR. Proceedings of the VLDB Endowment, 2010, 3, 1609-1612.	3.8	2

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163	No PANE, No Gain. SIGMOD Record, 2022, 51, 42-49.	1.2	2
164	What can a web bag discover for you?. Data and Knowledge Engineering, 2002, 43, 79-119.	3.4	1
165	Constraint-driven join processing in a Web Warehouse. Data and Knowledge Engineering, 2003, 45, 33-78.	3.4	1
166	In silico identification of endo16 regulators in the sea urchin endomesoderm gene regulatory network. , 2012, , .		1
167	One feature doesn't fit all. , 2014, , .		1
168	Structure-preserving subgraph query services. , 2016, , .		1
169	Killing Two Birds With One Stone. , 2018, , .		1
170	An Indexing Framework for Efficient Visual Exploratory Subgraph Search in Graph Databases. , 2019, , .		1
171	KANDINSKY. , 2019, , .		1
172	Modelling and Predicting Web Page Accesses Using Burrell's Model. Lecture Notes in Computer Science, 2002, , 172-181.	1.3	1
173	Typicality-Based Across-Time Mapping of Entity Sets in Document Archives. Lecture Notes in Computer Science, 2019, , 350-366.	1.3	1
174	BioDIFF: An Effective Fast Change Detection Algorithm for Biological Annotations. Lecture Notes in Computer Science, 2007, , 275-287.	1.3	1
175	Stars on Steroids: Fast Evaluation of Multi-source Star Twig Queries in RDBMS. Lecture Notes in Computer Science, 2012, , 110-125.	1.3	1
176	PANDA. Proceedings of the VLDB Endowment, 2018, 11, 1966-1969.	3.8	1
177	Visualet. , 2020, , .		1
178	Formulating disjunctive coupling queries in a web warehouse. Data and Knowledge Engineering, 2003, 46, 1-40.	3.4	0
179	Web Data and Schema Management. Data and Knowledge Engineering, 2007, 60, 257-259.	3.4	0
180	NEAR-Miner. Proceedings of the VLDB Endowment, 2009, 2, 1150-1161.	3.8	0

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181	PANI. , 2012, , .		0
182	Stars on steroids: Fast evaluation of multi-source star twig queries in path materialization-based XML databases. Data and Knowledge Engineering, 2013, 88, 179-205.	3.4	0
183	INGOT: Towards network-driven in silico combination therapy. , 2014, , .		0
184	TENET: A Machine Learning-Based System for Target Characterization in Signaling Networks. , 2016, , .		0
185	FacetsViewer: A Tool for Multi-faceted Decomposition of Complex Networks. , 2016, , .		0
186	Predictive Modeling of Drug Effects on Signaling Pathways in Diverse Cancer Cell Lines. , 2016, , .		0
187	Summarizing Biological Networks. Computational Biology, 2017, , .	0.2	0
188	ASTERIX. , 2017, , .		0
189	TINTIN. , 2017, , .		0
190	TROVE: a user-friendly tool for visualizing and analyzing cancer hallmarks in signaling networks. Bioinformatics, 2018, 34, 314-316.	4.1	0
191	Visual Graph Querying. , 2018, , 1-9.		0
192	Human Interaction with Graphs: A Visual Querying Perspective. Synthesis Lectures on Data Management, 2018, 10, 1-208.	0.6	0
193	ATAR. , 2019, , .		0
194	A Generic Ontology Framework for Indexing Keyword Search on Massive Graphs (Extended Abstract). , 2021, , .		0
195	Detecting Semantically Correct Changes to Relevant Unordered Hidden Web Data. Lecture Notes in Computer Science, 2005, , 395-405.	1.3	0
196	A Tale of Two Approaches: Query Performance Study of XML Storage Strategies in Relational Databases. Lecture Notes in Computer Science, 2006, , 149-160.	1.3	0
197	On the Discovery of Conserved XML Query Patterns for Evolution-Conscious Caching. Lecture Notes in Computer Science, 2009, , 527-542.	1.3	0
198	Virtual eXist-db. Proceedings of the VLDB Endowment, 2015, 8, 1932-1935.	3.8	0

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199	Multi-faceted Functional Decomposition. Computational Biology, 2017, , 95-116.	0.2	0
200	Plug-and-Play Queries for Temporal Data Sockets. Lecture Notes in Computer Science, 2017, , 124-136.	1.3	0
201	Differential Functional Summarization. Computational Biology, 2017, , 117-138.	0.2	0
202	Functional Summarization. Computational Biology, 2017, , 59-94.	0.2	0
203	DANTE. SIGMOD Record, 2018, 47, 67-72.	1.2	0
204	Visual Graph Querying. , 2019, , 1761-1769.		0
205	BOOMER: A Tool for Blending Visual P-Homomorphic Queries on Large Networks. , 2020, , .		0
206	Web Evolution Management: Detection, Monitoring, and Mining. , 2008, , 39-40.		0