Sourav S Bhowmick

List of Publications by Citations

188 papers	1,526 citations	19 h-index	29 g-index
219 ext. papers	1,889 ext. citations	2.3 avg, IF	4.81 L-index

#	Paper	IF	Citations
188	A survey of Web metrics. *ACM Computing Surveys*, **2002**, 34, 469-503	13.4	112
187	Conformity-aware influence maximization in online social networks. *VLDB Journal*, **2015**, 24, 117-141	3.9	55
186	Research Issues in Web Data Mining. *Lecture Notes in Computer Science*, **1999**, 303-312	0.9	47
185	Clustering and Summarizing Protein-Protein Interaction Networks: A Survey. *IEEE Transactions on Knowledge and Data Engineering*, **2016**, 28, 638-658	4.2	43
184	Tag-based social image retrieval: An empirical evaluation. *Journal of the Association for Information Science and Technology*, **2011**, 62, 2364-2381		39
183	In search of influential event organizers in online social networks **2014**,		38
182	DUALSIM **2016**,		34
181	Cell-delivery therapeutics for liver regeneration. *Advanced Drug Delivery Reviews*, **2010**, 62, 814-26	18.5	32
180	Image tag clarity **2009**,		27
179	Time-dependent semantic similarity measure of queries using historical click-through data **2006**,		27
178	Mobile data and transaction management. *Information Sciences*, **2002**, 141, 279-309	7.7	26
177	GBLENDER **2010**,		25
176	Quantifying tag representativeness of visual content of social images **2010**,		25
175	CASINO **2011**,		25
174	Towards Best Region Search for Data Exploration **2016**,		24
173	Plasmin triggers a switch-like decrease in thrombospondin-dependent activation of TGF-1. *Biophysical Journal*, **2012**, 103, 1060-8	2.9	23
172	An XML Schema integration and query mechanism system. *Data and Knowledge Engineering*, **2008**, 65, 266-303	1.5	22

171	GetReal **2015**,		20
170	PRAGUE: Towards Blending Practical Visual Subgraph Query Formulation and Query Processing **2012**,		20
169	FUSE: a profit maximization approach for functional summarization of biological networks. *BMC Bioinformatics*, **2012**, 13 Suppl 3, S10	3.6	19
168	DTD-Diff: A change detection algorithm for DTDs. *Data and Knowledge Engineering*, **2007**, 61, 384-402	1.5	19
167	QUBLE: towards blending interactive visual subgraph search queries on large networks. *VLDB Journal*, **2014**, 23, 401-426	3.9	18
166	The Past is Not a Foreign Country: Detecting Semantically Similar Terms across Time. *IEEE Transactions on Knowledge and Data Engineering*, **2016**, 28, 2793-2807	4.2	17
165	AutoG: a visual query autocompletion framework for graph databases. *VLDB Journal*, **2017**, 26, 347-372	3.9	16
164	Why not, WINE? **2013**,		16
163	Towards Efficient Authenticated Subgraph Query Service in Outsourced Graph Databases. *IEEE Transactions on Services Computing*, **2014**, 7, 696-713	4.8	15
162	Social image tag recommendation by concept matching **2011**,		15
161	Xandy: Detecting Changes on Large Unordered XML Documents Using Relational Databases. *Lecture Notes in Computer Science*, **2005**, 711-723	0.9	15
160	DualAligner: a dual alignment-based strategy to align protein interaction networks. *Bioinformatics*, **2014**, 30, 2619-26	7.2	14
159	XML structural delta mining: Issues and challenges. *Data and Knowledge Engineering*, **2006**, 59, 627-651	1.5	14
158	DEQUE: querying the deep web. *Data and Knowledge Engineering*, **2005**, 52, 273-311	1.5	14
157	Detecting changes on unordered XML documents using relational databases **2005**,		14
156	Xandy: A scalable change detection technique for ordered XML documents using relational databases. *Data and Knowledge Engineering*, **2006**, 59, 476-507	1.5	13
155	Discovering frequently changing structures from historical structural deltas of unordered XML **2004**,		13
154	SUCXENT: An Efficient Path-Based Approach to Store and Query XML Documents. *Lecture Notes in Computer Science*, **2004**, 285-295	0.9	13

153	Summarizing static and dynamic big graphs. *Proceedings of the VLDB Endowment*, **2017**, 10, 1981-1984	3.1	12
152	PICASSO. *Proceedings of the VLDB Endowment*, **2017**, 10, 1861-1864	3.1	12
151	PRISM **2014**,		12
150	Affinity-driven prediction and ranking of products in online product review sites **2010**,		11
149	Characterizing and predicting community members from evolutionary and heterogeneous networks **2008**,		11
148	A transaction model and multiversion concurrency control for mobile database systems. *Distributed and Parallel Databases*, **2007**, 22, 165-196	0.9	11
147	PINOCCHIO: Probabilistic Influence-Based Location Selection over Moving Objects. *IEEE Transactions on Knowledge and Data Engineering*, **2016**, 28, 3068-3082	4.2	11
146	Asymmetric structure-preserving subgraph queries for large graphs **2015**,		9
145	BOOMER **2018**,		9
144	Authenticated Subgraph Similarity Searchin Outsourced Graph Databases. *IEEE Transactions on Knowledge and Data Engineering*, **2015**, 27, 1838-1860	4.2	9
143	Content is still king **2012**,		9
142	AffRank: Affinity-driven ranking of products in online social rating networks. *Journal of the Association for Information Science and Technology*, **2011**, 62, 1345-1359		9
141	Efficient algorithms for generalized subgraph query processing **2012**,		9
140	Efficient recursive XML query processing using relational database systems. *Data and Knowledge Engineering*, **2006**, 58, 207-242	1.5	9
139	AutoG. *Proceedings of the VLDB Endowment*, **2016**, 9, 1505-1508	3.1	9
138	Mining Association Rules from Structural Deltas of Historical XML Documents. *Lecture Notes in Computer Science*, **2004**, 452-457	0.9	9
137	Mining Maximal Frequently Changing Subtree Patterns from XML Documents. *Lecture Notes in Computer Science*, **2004**, 68-76	0.9	9
136	Synergistic target combination prediction from curated signaling networks: Machine learning meets systems biology and pharmacology. *Methods*, **2017**, 129, 60-80	4.6	8

135	Structure-Preserving Subgraph Query Services. *IEEE Transactions on Knowledge and Data Engineering*, **2015**, 27, 2275-2290	4.2	8
134	DaVinci: Data-driven visual interface construction for subgraph search in graph databases **2015**,		8
133	Efficient Shapelet Discovery for Time Series Classification. *IEEE Transactions on Knowledge and Data Engineering*, **2020**, 1-1	4.2	8
132	Data-driven visual graph query interface construction and maintenance. *Proceedings of the VLDB Endowment*, **2016**, 9, 984-992	3.1	8
131	CATAPULT **2019**,		8
130	QUBLE **2013**,		8
129	GBLENDER **2011**,		8
128	XML Data Integration Based on Content and Structure Similarity Using Keys. *Lecture Notes in Computer Science*, **2008**, 484-493	0.9	8
127	Graph Querying Meets HCI **2017**,		7
126	PANDA: toward partial topology-based search on large networks in a single machine. *VLDB Journal*, **2017**, 26, 203-228	3.9	7
125	DiffNet: automatic differential functional summarization of dE-MAP networks. *Methods*, **2014**, 69, 247-56	4.6	7
124	MESSIAH **2013**,		7
123	Steady states and dynamics of urokinase-mediated plasmin activation in silico and in vitro. *Biophysical Journal*, **2011**, 101, 1825-34	2.9	7
122	Blog cascade affinity **2009**,		7
121	XANADUE **2007**,		7
120	FRACTURE mining: Mining frequently and concurrently mutating structures from historical XML documents. *Data and Knowledge Engineering*, **2006**, 59, 320-347	1.5	7
119	Detecting Content Changes on Ordered XML Documents Using Relational Databases. *Lecture Notes in Computer Science*, **2004**, 580-590	0.9	7
118	Computational cell fate modelling for discovery of rewiring in apoptotic network for enhanced cancer drug sensitivity. *BMC Systems Biology*, **2015**, 9 Suppl 1, S4	3.5	6

117	COWES: Web user clustering based on evolutionary web sessions. *Data and Knowledge Engineering*, **2009**, 68, 867-885	1.5	6
116	G-CARE: A Framework for Performance Benchmarking of Cardinality Estimation Techniques for Subgraph Matching **2020**,		6
115	Efficient Recursive XML Query Processing in Relational Database Systems. *Lecture Notes in Computer Science*, **2004**, 493-510	0.9	6
114	SURGE: Continuous Detection of Bursty Regions over a Stream of Spatial Objects **2018**,		6
113	ViSual: An HCI-inspired simulator for blending visual subgraph query construction and processing **2015**,		5
112	Efficient evaluation of high-selective xml twig patterns with parent child edges in tree-unaware rdbms **2007**,		5
111	Detecting and representing relevant Web deltas in WHOWEDA. *IEEE Transactions on Knowledge and Data Engineering*, **2003**, 15, 423-441	4.2	5
110	Anatomy of the coupling query in a web warehouse. *Information and Software Technology*, **2002**, 44, 513-539	3.4	5
109	Deriving and verifying statistical distribution of a hyperlink-based Web page quality metric. *Data and Knowledge Engineering*, **2003**, 46, 291-315	1.5	5
108	Bio2X: a rule-based approach for semi-automatic transformation of semi-structured biological data to XML. *Data and Knowledge Engineering*, **2005**, 52, 249-271	1.5	5
107	Towards plug-and-play visual graph query interfaces. *Proceedings of the VLDB Endowment*, **2021**, 14, 1979-1991	3.1	5
106	Discovering Pattern-Based Dynamic Structures from Versions of Unordered XML Documents. *Lecture Notes in Computer Science*, **2004**, 77-86	0.9	5
105	Efficient Support for Ordered XPath Processing in Tree-Unaware Commercial Relational Databases **2007**, 793-806		5
104	COWES: Clustering Web Users Based on Historical Web Sessions. *Lecture Notes in Computer Science*, **2006**, 541-556	0.9	5
103	DTD-Diff: A Change Detection Algorithm for DTDs. *Lecture Notes in Computer Science*, **2006**, 817-827	0.9	5
102	PINOCCHIO: Probabilistic Influence-Based Location Selection over Moving Objects **2017**,		4
101	VISUAL: Simulation of Visual Subgraph Query Formulation to Enable Automated Performance Benchmarking. *IEEE Transactions on Knowledge and Data Engineering*, **2017**, 29, 1765-1778	4.2	4
100	TENET: topological feature-based target characterization in signalling networks. *Bioinformatics*, **2015**, 31, 3306-14	7.2	4

99	**2015**,		4
98	Conflict of Interest Declaration and Detection System in Heterogeneous Networks **2017**,		4
97	TOTEM **2017**,		4
96	Affinity-driven blog cascade analysis and prediction. *Data Mining and Knowledge Discovery*, **2014**, 28, 442-474	5.6	4
95	Pani **2011**,		4
94	CASIS **2012**,		4
93	Efficient processing of XPath queries using indexes. *Information Systems*, **2007**, 32, 131-159	2.7	4
92	WAM-Miner **2005**,		4
91	Interruption-Sensitive Empty Result Feedback **2015**,		4
90	Path Travel Time Estimation using Attribute-related Hybrid Trajectories Network **2019**,		4
89	Information Coupling in Web Databases. *Lecture Notes in Computer Science*, **1998**, 92-106	0.9	4
88	Efficient Evaluation of NOT-Twig Queries in Tree-Unaware Relational Databases. *Lecture Notes in Computer Science*, **2011**, 511-527	0.9	4
87	MustBlend: Blending Visual Multi-Source Twig Query Formulation and Query Processing in RDBMS. *Lecture Notes in Computer Science*, **2013**, 228-243	0.9	4
86	Efficient Database-Driven Evaluation of Security Clearance for Federated Access Control of Dynamic XML Documents. *Lecture Notes in Computer Science*, **2010**, 299-306	0.9	4
85	Quantifying Visual-Representativeness of Social Image Tags Using Image Tag Clarity **2011**, 3-23		4
84	Oxone: A Scalable Solution for Detecting Superior Quality Deltas on Ordered Large XML Documents. *Lecture Notes in Computer Science*, **2006**, 196-211	0.9	4
83	Deriving and Verifying Statistical Distribution of a Hyperlink-Based Web Page Quality Metric. *Lecture Notes in Computer Science*, **2002**, 19-28	0.9	4
82	FERRARI: an efficient framework for visual exploratory subgraph search in graph databases. *VLDB Journal*, **2020**, 29, 973-998	3.9	3

81	Summarizing social image search results **2014**,		3
80	Querying XML Data: As You Shape It **2012**,		3
79	Mapping, indexing and querying of MPEG-7 descriptors in RDBMS with IXMDB. *Data and Knowledge Engineering*, **2007**, 63, 224-257	1.5	3
78	HW-STALKER: A machine learning-based system for transforming QURE-Pagelets to XML. *Data and Knowledge Engineering*, **2005**, 54, 241-276	1.5	3
77	Mining conserved XML query paths for dynamic-conscious caching **2005**,		3
76	Schemas for web data: a reverse engineering approach. *Data and Knowledge Engineering*, **2001**, 39, 105-142	1.5	3
75	DB ? HCI: Towards Bridging the Chasm between Graph Data Management and HCI. *Lecture Notes in Computer Science*, **2014**, 1-11	0.9	3
74	Mining History of Changes to Web Access Patterns. *Lecture Notes in Computer Science*, **2004**, 521-523	0.9	3
73	SINBAD: Towards Structure-Independent Querying of Common Neighbors in XML Databases. *Lecture Notes in Computer Science*, **2012**, 156-171	0.9	3
72	In the Search of NECTARs from Evolutionary Trees. *Lecture Notes in Computer Science*, **2009**, 714-729	0.9	3
71	PPKWS: An Efficient Framework for Keyword Search on Public-Private Networks **2020**,		3
70	On-demand recent personal tweets summarization on mobile devices. *Journal of the Association for Information Science and Technology*, **2019**, 70, 547-562	2.7	3
69	A Generic Ontology Framework for Indexing Keyword Search on Massive Graphs. *IEEE Transactions on Knowledge and Data Engineering*, **2021**, 33, 2322-2336	4.2	3
68	Ranking Without Learning **2018**,		3
67	Imposing Disjunctive Constraints on Inter-document Structure. *Lecture Notes in Computer Science*, **2001**, 723-733	0.9	3
66	FLAG: Towards Graph Query Autocompletion for Large Graphs. *Data Science and Engineering*, **2022**, 7, 175	3.6	3
65	Efficient Estimation of Heat Kernel PageRank for Local Clustering **2019**,		2
64	FGreat: Focused Graph Query Autocompletion **2019**,		2

63	Why not, WINE? **2014**,		2
62	Querying virtual hierarchies using virtual prefix-based numbers **2014**,		2
61	ANDES: efficient evaluation of NOT-twig queries in relational databases. *VLDB Journal*, **2012**, 21, 889-914	3.9	2
60	Incremental Maintenance of the Minimum Bisimulation of Cyclic Graphs. *IEEE Transactions on Knowledge and Data Engineering*, **2013**, 25, 2536-2550	4.2	2
59	Towards non-directional Xpath evaluation in a RDBMS **2009**,		2
58	Fuse **2011**,		2
57	Integrating historical noisy answers for improving data utility under differential privacy **2012**,		2
56	Representation of Web Data in A Web Warehouse. *Computer Journal*, **2003**, 46, 229-262	1.3	2
55	LATTE: Visual Construction of Smart Contracts **2020**,		2
54	Document in Context of its Time (DICT) **2019**,		2
53	Using XMorph to transform XML data. *Proceedings of the VLDB Endowment*, **2010**, 3, 1541-1544	3.1	2
52	Efficient XML Query Processing in RDBMS Using GUI-Driven Prefetching in a Single-User Environment. *Lecture Notes in Computer Science*, **2007**, 819-833	0.9	2
51	BRUNCH: Branching Structure Inference of Hybrid Multivariate Hawkes Processes with Application to Social Media. *Lecture Notes in Computer Science*, **2020**, 553-566	0.9	2
50	HW-STALKER: A Machine Learning-Based Approach to Transform Hidden Web Data to XML. *Lecture Notes in Computer Science*, **2004**, 936-946	0.9	2
49	Optimizing Incremental Maintenance of Minimal Bisimulation of Cyclic Graphs. *Lecture Notes in Computer Science*, **2011**, 543-557	0.9	2
48	GFocus: User Focus-based Graph Query Autocompletion. *IEEE Transactions on Knowledge and Data Engineering*, **2020**, 1-1	4.2	2
47	Every Word has its History **2018**,		2
46	SM3+: An XML Database Solution for the Management of MPEG-7 Descriptions. *Lecture Notes in Computer Science*, **2005**, 134-144	0.9	2

45	iWed: An Integrated Multigraph Cut-Based Approach for Detecting Events from a Website. *Lecture Notes in Computer Science*, **2006**, 351-360	0.9	2
44	On Formulation of Disjunctive Coupling Queries in WHOWEDA. *Lecture Notes in Computer Science*, **2001**, 688-698	0.9	2
43	An Indexing Framework for Efficient Visual Exploratory Subgraph Search in Graph Databases **2019**,		1
42	Mapping Entity Sets in News Archives Across Time. *Data Science and Engineering*, **2019**, 4, 208-222	3.6	1
41	Killing Two Birds With One Stone **2018**,		1
40	PISTIS **2018**,		1
39	Side-Effect Estimation: A Filtering Approach to the View Update Problem. *IEEE Transactions on Knowledge and Data Engineering*, **2014**, 26, 2307-2322	4.2	1
38	XBLEND: Visual XML Query Formulation Meets Query Processing. *Proceedings - International Conference on Data Engineering*, **2009**,	2	1
37	Efficient maintenance of common keys in archives of continuous query results from deep websites **2011**,		1
36	FACETS: multi-faceted functional decomposition of protein interaction networks. *Bioinformatics*, **2012**, 28, 2624-31	7.2	1
35	STEROID **2012**,		1
34	FASST Mining: Discovering Frequently Changing Semantic Structure from Versions of Unordered XML Documents. *Lecture Notes in Computer Science*, **2005**, 724-735	0.9	1
33	Cost-benefit analysis of web bag in a web warehouse: An analytical approach. *World Wide Web*, **2000**, 3, 165-184	2.9	1
32	Visualet **2020**,		1
31	BioDIFF: An Effective Fast Change Detection Algorithm for Biological Annotations. *Lecture Notes in Computer Science*, **2007**, 275-287	0.9	1
30	PANDA. *Proceedings of the VLDB Endowment*, **2018**, 11, 1966-1969	3.1	1
29	CHASSIS: Conformity Meets Online Information Diffusion **2020**,		1
28	Typicality-Based Across-Time Mapping of Entity Sets in Document Archives. *Lecture Notes in Computer Science*, **2019**, 350-366	0.9	1

27	i AVATAR. *Proceedings of the VLDB Endowment*, **2010**, 3, 1609-1612	3.1	1
26	TAPESTRY **2016**,		1
25	Modelling and Predicting Web Page Accesses Using Burrell's Model. *Lecture Notes in Computer Science*, **2002**, 172-181	0.9	1
24	Constraint-Free Join Processing on Hyperlinked Web Data. *Lecture Notes in Computer Science*, **2002**, 255-264	0.9	1
23	PIANO: Influence Maximization Meets Deep Reinforcement Learning. *IEEE Transactions on Computational Social Systems*, **2022**, 1-13	4.5	1
22	Constraint-driven join processing in a Web Warehouse. *Data and Knowledge Engineering*, **2003**, 45, 33-78	1.5	0
21	PRISM. *Proceedings of the VLDB Endowment*, **2015**, 8, 1868-1871	3.1	0
20	FROST. *ACM Transactions on Intelligent Systems and Technology*, **2020**, 11, 1-26	8	0
19	SURGE: Continuous Detection of Bursty Regions Over a Stream of Spatial Objects. *IEEE Transactions on Knowledge and Data Engineering*, **2020**, 32, 2254-2268	4.2	0
18	No PANE, No Gain. *SIGMOD Record*, **2022**, 51, 42-49	1.1	0
17	TROVE: a user-friendly tool for visualizing and analyzing cancer hallmarks in signaling networks. *Bioinformatics*, **2018**, 34, 314-316	7.2	
16	Human Interaction with Graphs: A Visual Querying Perspective. *Synthesis Lectures on Data Management*, **2018**, 10, 1-208	1.8	
15	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	1.5	
14	NEAR-Miner. *Proceedings of the VLDB Endowment*, **2009**, 2, 1150-1161	3.1	
13	What can a web bag discover for you?. *Data and Knowledge Engineering*, **2002**, 43, 79-119	1.5	
12	Formulating disjunctive coupling queries in a web warehouse. *Data and Knowledge Engineering*, **2003**, 46, 1-40	1.5	
11	Detecting Semantically Correct Changes to Relevant Unordered Hidden Web Data. *Lecture Notes in Computer Science*, **2005**, 395-405	0.9	
10	A Tale of Two Approaches: Query Performance Study of XML Storage Strategies in Relational Databases. *Lecture Notes in Computer Science*, **2006**, 149-160	0.9	

9	DANTE. *SIGMOD Record*, **2018**, 47, 67-72	1.1
8	Virtual eXist-db. *Proceedings of the VLDB Endowment*, **2015**, 8, 1932-1935	3.1
7	Multi-faceted Functional Decomposition. *Computational Biology*, **2017**, 95-116	0.7
6	Plug-and-Play Queries for Temporal Data Sockets. *Lecture Notes in Computer Science*, **2017**, 124-136	0.9
5	Differential Functional Summarization. *Computational Biology*, **2017**, 117-138	0.7
4	Functional Summarization. *Computational Biology*, **2017**, 59-94	0.7
3	On the Discovery of Conserved XML Query Patterns for Evolution-Conscious Caching. *Lecture Notes in Computer Science*, **2009**, 527-542	0.9
2	BIDEL: An XML-Based System for Effective Fast Change Detection of Genomic and Proteomic Data. *Lecture Notes in Computer Science*, **2010**, 472-476	0.9
1	Stars on Steroids: Fast Evaluation of Multi-source Star Twig Queries in RDBMS. *Lecture Notes in Computer Science*, **2012**, 110-125	0.9