

# Sharad Mehrotra

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95 papers	3,073 citations	23 h-index	54 g-index
107 ext. papers	3,646 ext. citations	2.4 avg, IF	5.06 L-index

#	Paper	IF	Citations
95	Dimensionality Reduction for Fast Similarity Search in Large Time Series Databases. <i>Knowledge and Information Systems</i> , <b>2001</b> , 3, 263-286	2.4	755
94	Executing SQL over encrypted data in the database-service-provider model <b>2002</b> ,		366
93	Locally adaptive dimensionality reduction for indexing large time series databases. <i>SIGMOD Record</i> , <b>2001</b> , 30, 151-162	1.1	204
92	A Privacy-Preserving Index for Range Queries <b>2004</b> , 720-731		175
91	Secure multidimensional range queries over outsourced data. <i>VLDB Journal</i> , <b>2012</b> , 21, 333-358	3.9	133
90	Domain-independent data cleaning via analysis of entity-relationship graph. <i>ACM Transactions on Database Systems</i> , <b>2006</b> , 31, 716-767	1.6	108
89	Processing Spatial-Keyword (SK) Queries in Geographic Information Retrieval (GIR) Systems. <i>International Conference on Scientific and Statistical Database Management: [proceedings] International Conference on Scientific and Statistical Database Management</i> , <b>2007</b> ,		108
88	MAPCloud: Mobile Applications on an Elastic and Scalable 2-Tier Cloud Architecture <b>2012</b> ,		94
87	Efficient Execution of Aggregation Queries over Encrypted Relational Databases. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 125-136	0.9	79
86	Privacy protecting data collection in media spaces <b>2004</b> ,		71
85	Exploiting relationships for domain-independent data cleaning <b>2005</b> ,		70
84	Exploiting context analysis for combining multiple entity resolution systems <b>2009</b> ,		51
83	On Summarization and Timeline Generation for Evolutionary Tweet Streams. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2015</b> , 27, 1301-1315	4.2	45
82	Energy efficient data collection in distributed sensor environments <b>2004</b> ,		43
81	W3-privacy: understanding what, when, and where inference channels in multi-camera surveillance video. <i>Multimedia Tools and Applications</i> , <b>2014</b> , 68, 135-158	2.5	40
80	QUASAR. <i>SIGMOD Record</i> , <b>2004</b> , 33, 26-31	1.1	40
79	Progressive approximate aggregate queries with a multi-resolution tree structure. <i>SIGMOD Record</i> , <b>2001</b> , 30, 401-412	1.1	39

78	Progressive approach to relational entity resolution. <i>Proceedings of the VLDB Endowment</i> , <b>2014</b> , 7, 999-1010	1.1	37
77	Exploiting Web querying for Web people search. <i>ACM Transactions on Database Systems</i> , <b>2012</b> , 37, 1-41	1.6	37
76	Web People Search via Connection Analysis. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2008</b> , 20, 1550-1565	4.2	37
75	Adaptive graphical approach to entity resolution <b>2007</b> ,		31
74	Exploiting relationships for object consolidation <b>2005</b> ,		27
73	BigSecret: A Secure Data Management Framework for Key-Value Stores <b>2013</b> ,		25
72	Query-driven approach to entity resolution. <i>Proceedings of the VLDB Endowment</i> , <b>2013</b> , 6, 1846-1857	3.1	23
71	Relevance feedback techniques in the MARS image retrieval system. <i>Multimedia Systems</i> , <b>2004</b> , 9, 535-547	2.2	21
70	A unified framework for context assisted face clustering <b>2013</b> ,		20
69	Context-based person identification framework for smart video surveillance. <i>Machine Vision and Applications</i> , <b>2014</b> , 25, 1711-1725	2.8	18
68	Adaptive Transformation for Robust Privacy Protection in Video Surveillance. <i>Advances in Multimedia</i> , <b>2012</b> , 2012, 1-14	0.9	17
67	Privacy modeling for video data publication <b>2010</b> ,		16
66	TIPPERS: A privacy cognizant IoT environment <b>2016</b> ,		16
65	Query Aware Determinization of Uncertain Objects. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2015</b> , 27, 207-221	4.2	14
64	CloudProtect: Managing Data Privacy in Cloud Applications <b>2012</b> ,		14
63	Risk-Aware Workload Distribution in Hybrid Clouds <b>2012</b> ,		14
62	Attribute and object selection queries on objects with probabilistic attributes. <i>ACM Transactions on Database Systems</i> , <b>2012</b> , 37, 1-41	1.6	13
61	Secure and Efficient Query Processing over Hybrid Clouds <b>2017</b> ,		12

60	Toward Managing Uncertain Spatial Information for Situational Awareness Applications. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2008</b> , 20, 1408-1423	4.2	12
59	Ditio <b>2017</b> ,		11
58	Building disclosure risk aware query optimizers for relational databases. <i>Proceedings of the VLDB Endowment</i> , <b>2010</b> , 3, 13-24	3.1	10
57	Architecture for an Automatic Customized Warning System <b>2007</b> ,		10
56	Disambiguation Algorithm for People Search on the Web <b>2007</b> ,		10
55	Adaptive Connection Strength Models for Relationship-Based Entity Resolution. <i>Journal of Data and Information Quality</i> , <b>2013</b> , 4, 1-22	2.5	9
54	Flexible Anonymization For Privacy Preserving Data Publishing: A Systematic Search Based Approach <b>2007</b> ,		9
53	Ensuring transaction atomicity in multidatabase systems <b>1992</b> ,		9
52	Application-aware integration of data collection and power management in wireless sensor networks. <i>Journal of Parallel and Distributed Computing</i> , <b>2007</b> , 67, 992-1006	4.4	8
51	A Fast and Robust Content-based Publish/Subscribe Architecture <b>2008</b> ,		7
50	Context-assisted face clustering framework with human-in-the-loop. <i>International Journal of Multimedia Information Retrieval</i> , <b>2014</b> , 3, 69-88	2.4	6
49	Scheduling sensors for monitoring sentient spaces using an approximate POMDP policy. <i>Pervasive and Mobile Computing</i> , <b>2014</b> , 10, 83-103	3.5	6
48	Privacy-preserving event detection in pervasive spaces <b>2009</b> ,		6
47	XAR: An Integrated Framework for Information Extraction <b>2009</b> ,		6
46	Design and Implementation of a Middleware for Sentient Spaces <b>2007</b> ,		6
45	SmartBench. <i>Proceedings of the VLDB Endowment</i> , <b>2020</b> , 13, 1807-1820	3.1	6
44	Indexing Encrypted Documents for Supporting Efficient Keyword Search. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 93-110	0.9	6
43	Query-Driven Approach to Face Clustering and Tagging. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 4504-13	8.7	5

42	A middleware approach for outsourcing data securely. <i>Computers and Security</i> , <b>2013</b> , 32, 252-266	4.9	5
41	CCD: A Distributed Publish/Subscribe Framework for Rich Content Formats. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2012</b> , 23, 844-852	3.7	5
40	Fault Tolerant Evaluation of Continuous Selection Queries over Sensor Data. <i>International Journal of Distributed Sensor Networks</i> , <b>2009</b> , 5, 338-360	1.7	5
39	FireDeX <b>2018</b> ,		5
38	ProgressER. <i>ACM Transactions on Knowledge Discovery From Data</i> , <b>2018</b> , 12, 1-45	4	4
37	WEST: Modern Technologies for Web People Search. <i>Proceedings - International Conference on Data Engineering</i> , <b>2009</b> ,	2	4
36	A Semantics-Based Approach for Speech Annotation of Images. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2011</b> , 23, 1373-1387	4.2	4
35	Dynamic Load Balancing for Cluster-Based Publish/Subscribe System <b>2009</b> ,		4
34	SEARTCam scheduler: semantics driven real-time data collection from indoor camera networks to maximize event detection. <i>Journal of Real-Time Image Processing</i> , <b>2010</b> , 5, 215-230	1.9	4
33	Efficient and Reliable Application Layer Multicast for Flash Dissemination. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2014</b> , 25, 2571-2582	3.7	3
32	QDA: A Query-Driven Approach to Entity Resolution. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2017</b> , 29, 402-417	4.2	3
31	Practical experiences in enabling and ensuring quality sensing in emergency response applications <b>2010</b> ,		3
30	Using Semantics for Speech Annotation of Images. <i>Proceedings - International Conference on Data Engineering</i> , <b>2009</b> ,	2	3
29	A reflective middleware architecture for simulation integration <b>2009</b> ,		3
28	Exploiting semantics for scheduling real-time data collection from sensors to maximize event detection <b>2009</b> ,		3
27	Sensor Scheduling for Aggregate Monitoring in Wireless Sensor Networks. <i>International Conference on Scientific and Statistical Database Management: [proceedings] International Conference on Scientific and Statistical Database Management</i> , <b>2007</b> ,		3
26	Sensor data collection with expected reliability guarantees		3
25	Overcoming Heterogeneity and Autonomy in Multidatabase Systems. <i>Information and Computation</i> , <b>2001</b> , 167, 132-172	0.8	3

24	Adaptive Mediation for Data Exchange in IoT Systems <b>2019</b> ,		3
23	PRISM: Private Verifiable Set Computation over Multi-Owner Outsourced Databases <b>2021</b> ,		3
22	Trustworthy Sensing in an Untrusted IoT Environment <b>2018</b> ,		3
21	Simulation integration: using multidatabase systems concepts. <i>Simulation</i> , <b>2014</b> , 90, 1268-1289	1.2	2
20	SMPL, a Specification Based Framework for the Semantic Structure, Annotation and Control of SMIL Documents <b>2009</b> ,		2
19	Grouping and Aggregate queries Over Semantic Web Databases <b>2007</b> ,		2
18	Efficient concurrency control in multidimensional access methods. <i>SIGMOD Record</i> , <b>1999</b> , 28, 25-36	1.1	2
17	Obscure. <i>Proceedings of the VLDB Endowment</i> , <b>2019</b> , 12, 1030-1043	3.1	2
16	Secure Computation on Outsourced Data: A 10-year Retrospective. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 16-27	0.9	2
15	SATware: A Semantic Approach for Building Sentient Spaces <b>2011</b> , 389-402		2
14	CONTEXT ASSISTED PERSON IDENTIFICATION FOR IMAGES AND VIDEOS <b>2016</b> , 197-216		1
13	Scheduling sensors for monitoring sentient spaces using an approximate POMDP policy <b>2013</b> ,		1
12	Gateway designation for timely communications in instant mesh networks <b>2010</b> ,		1
11	The software EBox: Integrated information for situational awareness <b>2009</b> ,		1
10	Semantically Ranked Graph Pattern Queries for Link Analysis <b>2007</b> ,		1
9	AGGREGATE QUERY PROCESSING FOR SEMANTIC WEB DATABASES: AN ALGEBRAIC APPROACH. <i>International Journal of Semantic Computing</i> , <b>2007</b> , 01, 479-495	0.7	1
8	Grouping and Aggregate queries Over Semantic Web Databases		1
7	Designing privacy preserving data sharing middleware for internet of things <b>2020</b> ,		1

6	An Implementation Experience with SDN-enabled IoT Data Exchange Middleware <b>2018</b> ,	1
5	Record Linkage: A 10-Year Retrospective. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 3-12	0.9 0
4	Database Support for Multimedia Applications161-210	
3	Obscure: Information-Theoretically Secure, Oblivious, and Verifiable Aggregation Queries on Secret-Shared Outsourced Data. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2020</b> , 1-1	4.2
2	REAM: A Framework for Resource Efficient Adaptive Monitoring of Community Spaces. <i>Pervasive and Mobile Computing</i> , <b>2021</b> , 76, 101459	3.5
1	Quest: Privacy-Preserving Monitoring of Network Data: A System for Organizational Response to Pandemics. <i>IEEE Transactions on Services Computing</i> , <b>2022</b> , 1-1	4.8