

Sherif Sakr

List of Publications by Year in descending order

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Version: 2024-02-01

165
papers

3,420
citations

218592

26
h-index

182361

51
g-index

181
all docs

181
docs citations

181
times ranked

3348
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Large Scale Data Management Approaches in Cloud Environments. IEEE Communications Surveys and Tutorials, 2011, 13, 311-336.	24.8	323
2	Predicting diabetes mellitus using SMOTE and ensemble machine learning approach: The Henry Ford Exercise Testing (FIT) project. PLoS ONE, 2017, 12, e0179805.	1.1	194
3	On the interpretability of machine learning-based model for predicting hypertension. BMC Medical Informatics and Decision Making, 2019, 19, 146.	1.5	141
4	Cardiorespiratory Fitness and Cardiovascular Disease Prevention: an Update. Current Atherosclerosis Reports, 2018, 20, 1.	2.0	134
5	The family of mapreduce and large-scale data processing systems. ACM Computing Surveys, 2013, 46, 1-44.	16.1	127
6	Towards a Comprehensive Data Analytics Framework for Smart Healthcare Services. Big Data Research, 2016, 4, 44-58.	2.6	126
7	Predictors of in-hospital length of stay among cardiac patients: A machine learning approach. International Journal of Cardiology, 2019, 288, 140-147.	0.8	110
8	Relational processing of RDF queries. SIGMOD Record, 2010, 38, 23-28.	0.7	100
9	Big Data Systems Meet Machine Learning Challenges: Towards Big Data Science as a Service. Big Data Research, 2018, 14, 1-11.	2.6	96
10	DREAM. Proceedings of the VLDB Endowment, 2015, 8, 654-665.	2.1	81
11	Large scale graph processing systems: survey and an experimental evaluation. Cluster Computing, 2015, 18, 1189-1213.	3.5	81
12	Using machine learning on cardiorespiratory fitness data for predicting hypertension: The Henry Ford Exercise Testing (FIT) Project. PLoS ONE, 2018, 13, e0195344.	1.1	76
13	XML compression techniques: A survey and comparison. Journal of Computer and System Sciences, 2009, 75, 303-322.	0.9	71
14	RDF Data Storage and Query Processing Schemes. ACM Computing Surveys, 2019, 51, 1-36.	16.1	69
15	Comparison of machine learning techniques to predict all-cause mortality using fitness data: the Henry ford exercise testing (FIT) project. BMC Medical Informatics and Decision Making, 2017, 17, 174.	1.5	59
16	Interpretability in healthcare: A comparative study of local machine learning interpretability techniques. Computational Intelligence, 2021, 37, 1633-1650.	2.1	58
17	Cloud-hosted databases: technologies, challenges and opportunities. Cluster Computing, 2014, 17, 487-502.	3.5	54
18	A Query Language for Analyzing Business Processes Execution. Lecture Notes in Computer Science, 2011, , 281-297.	1.0	51

#	ARTICLE	IF	CITATIONS
19	On understanding the economics and elasticity challenges of deploying business applications on public cloud infrastructure. <i>Journal of Internet Services and Applications</i> , 2012, 3, 173-193.	1.6	49
20	Handbook of Big Data Technologies. , 2017, , .		49
21	XQuery on SQL Hosts. , 2004, , 252-263.		48
22	Cardiorespiratory fitness and incident heart failure: The Henry Ford Exercise Testing (FIT) Project. <i>American Heart Journal</i> , 2017, 185, 35-42.	1.2	47
23	Big Data 2.0 Processing Systems: Taxonomy and Open Challenges. <i>Journal of Grid Computing</i> , 2016, 14, 379-405.	2.5	46
24	Linked Data. , 2018, , .		43
25	SLA-Based and Consumer-centric Dynamic Provisioning for Cloud Databases. , 2012, , .		42
26	A Framework for Consumer-Centric SLA Management of Cloud-Hosted Databases. <i>IEEE Transactions on Services Computing</i> , 2015, 8, 534-549.	3.2	41
27	A framework for querying graph-based business process models. , 2010, , .		40
28	G-SPARQL. , 2012, , .		40
29	Building Pipelines for Heterogeneous Execution Environments for Big Data Processing. <i>IEEE Software</i> , 2016, 33, 60-67.	2.1	34
30	DLBench: a comprehensive experimental evaluation of deep learning frameworks. <i>Cluster Computing</i> , 2021, 24, 2017-2038.	3.5	32
31	Process Analytics. , 2016, , .		30
32	Network-based social coordination of business processes. <i>Information Systems</i> , 2016, 58, 56-74.	2.4	29
33	Business Process Analytics and Big Data Systems: A Roadmap to Bridge the Gap. <i>IEEE Access</i> , 2018, 6, 77308-77320.	2.6	25
34	GraphREL: A Decomposition-Based and Selectivity-Aware Relational Framework for Processing Sub-graph Queries. <i>Lecture Notes in Computer Science</i> , 2009, , 123-137.	1.0	25
35	Graph indexing and querying: a review. <i>International Journal of Web Information Systems</i> , 2010, 6, 101-120.	1.3	24
36	Cloud Data Management. , 2014, , .		24

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37	Graph Generators. ACM Computing Surveys, 2021, 53, 1-30.	16.1	23
38	Using Machine Learning to Define the Association between Cardiorespiratory Fitness and All-Cause Mortality (from the Henry Ford Exercise Testing Project). American Journal of Cardiology, 2017, 120, 2078-2084.	0.7	22
39	A Differentiated Caching Mechanism to Enable Primary Storage Deduplication in Clouds. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1202-1216.	4.0	21
40	Stream Processing Languages in the Big Data Era. SIGMOD Record, 2018, 47, 29-40.	0.7	21
41	CloudDB AutoAdmin: Towards a Truly Elastic Cloud-Based Data Store. , 2011, , .		20
42	Runtime detection of business process compliance violations. , 2015, , .		20
43	Querying Graph-Based Repositories of Business Process Models. Lecture Notes in Computer Science, 2010, , 33-44.	1.0	20
44	Dependable cardinality forecasts for XQuery. Proceedings of the VLDB Endowment, 2008, 1, 463-477.	2.1	20
45	A SQL. , 2007, , .		19
46	On efficient processing of BPMN-Q queries. Computers in Industry, 2012, 63, 867-881.	5.7	18
47	DREAM in Action. , 2016, , .		18
48	Modeling performance of a parallel streaming engine. , 2013, , .		17
49	Benchmarking big data systems: A survey. Computer Communications, 2020, 149, 241-251.	3.1	16
50	Towards Comprehensive Measurement of Consistency Guarantees for Cloud-Hosted Data Storage Services. Lecture Notes in Computer Science, 2014, , 32-47.	1.0	16
51	Large-Scale Graph Processing Using Apache Giraph. , 2016, , .		15
52	CDPort: A Portability Framework for NoSQL Datastores. Arabian Journal for Science and Engineering, 2015, 40, 2531-2553.	1.1	14
53	An Experimental Evaluation of Relational RDF Storage and Querying Techniques. Lecture Notes in Computer Science, 2010, , 215-226.	1.0	14
54	The impact of digoxin on mortality in patients with chronic systolic heart failure: A propensity-matched cohort study. International Journal of Cardiology, 2017, 228, 214-218.	0.8	13

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55	XML Tree Structure Compression. , 2008, , .		12
56	Big Data Processing Stacks. IT Professional, 2017, 19, 34-41.	1.4	12
57	HDM: A Composable Framework for Big Data Processing. IEEE Transactions on Big Data, 2018, 4, 150-163.	4.4	12
58	Big SQL systems: an experimental evaluation. Cluster Computing, 2019, 22, 1347-1377.	3.5	12
59	SDDM: an interpretable statistical concept drift detection method for data streams. Journal of Intelligent Information Systems, 2021, 56, 459-484.	2.8	12
60	Towards an Extensible Middleware for Database Benchmarking. Lecture Notes in Computer Science, 2015, , 82-96.	1.0	12
61	On Maintaining Consistency of Process Model Variants. Lecture Notes in Business Information Processing, 2011, , 289-300.	0.8	12
62	Exploiting time series of Sentinel-1 and Sentinel-2 to detect grassland mowing events using deep learning with reject region. Scientific Reports, 2022, 12, 983.	1.6	12
63	Efficient Relational Techniques for Processing Graph Queries. Journal of Computer Science and Technology, 2010, 25, 1237-1255.	0.9	11
64	Runtime self-monitoring approach of business process compliance in cloud environments. Cluster Computing, 2015, 18, 1503-1526.	3.5	11
65	ILIME: Local and Global Interpretable Model-Agnostic Explainer of Black-Box Decision. Lecture Notes in Computer Science, 2019, , 53-68.	1.0	11
66	Querying Process Models Repositories by Aggregated Graph Search. Lecture Notes in Business Information Processing, 2013, , 573-585.	0.8	10
67	CDPort. , 2014, , .		10
68	Big Data Programming Models. , 2017, , 31-63.		10
69	Partial process models to manage business process variants. International Journal of Business Process Integration and Management, 2011, 5, 240.	0.2	9
70	AdaptRDF: adaptive storage management for RDF databases. International Journal of Web Information Systems, 2012, 8, 234-250.	1.3	9
71	Application-Managed Database Replication on Virtualized Cloud Environments. , 2012, , .		9
72	Big Data Storage and Data Models. , 2017, , 3-29.		9

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73	Hybrid query execution engine for large attributed graphs. Information Systems, 2014, 41, 45-73.	2.4	8
74	Structural XML Query Processing. ACM Computing Surveys, 2017, 50, 1-41.	16.1	8
75	Higher Fitness Is Strongly Protective in Patients with Family History of Heart Disease: The FIT Project. American Journal of Medicine, 2017, 130, 367-371.	0.6	8
76	Towards a comprehensive assessment for selectivity estimation approaches of XML queries. International Journal of Web Engineering and Technology, 2010, 6, 58.	0.1	7
77	A decade of database conferences: a look inside the program committees. Scientometrics, 2012, 91, 173-184.	1.6	7
78	Availability analysis for deployment of in-cloud applications. , 2013, , .		7
79	A Framework of Enriching Business Processes Life-Cycle with Tagging Information. Lecture Notes in Computer Science, 2015, , 309-313.	1.0	7
80	Trade-Off Analysis of Elasticity Approaches for Cloud-Based Business Applications. Lecture Notes in Computer Science, 2012, , 468-482.	1.0	7
81	Algebra-based XQuery cardinality estimation. International Journal of Web Information Systems, 2008, 4, 6-47.	1.3	6
82	Application-Managed Replication Controller for Cloud-Hosted Databases. , 2012, , .		6
83	Big Graph Processing Systems: State-of-the-Art and Open Challenges. , 2015, , .		6
84	SUPER: Social-Based Business Process Management Framework. Lecture Notes in Computer Science, 2015, , 413-417.	1.0	6
85	An Anti-Pattern-based Runtime Business Process Compliance Monitoring Framework. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.5	6
86	A decade of database research publications: a look inside. Scientometrics, 2011, 88, 521-533.	1.6	5
87	Consumer-centric SLA manager for cloud-hosted databases. , 2013, , .		5
88	On business process monitoring using cross-flow coordination. Service Oriented Computing and Applications, 2017, 11, 203-215.	1.3	5
89	A First Step Towards a Streaming Linked Data Life-Cycle. Lecture Notes in Computer Science, 2020, , 634-650.	1.0	5
90	MapReduce Family of Large-Scale Data-Processing Systems. , 2014, , 39-106.		5

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91	Is Your Cloud-Hosted Database Truly Elastic?. , 2013, , .		4
92	Towards Big Data Analytics across Multiple Clusters. , 2017, , .		4
93	Artificial intelligence for plaque characterization: A scientific exercise looking for a clinical application. <i>Atherosclerosis</i> , 2019, 288, 158-159.	0.4	4
94	An Outlook to Declarative Languages for Big Steaming Data. , 2019, , .		4
95	The Interplay of the Global Atherosclerotic Cardiovascular Disease Risk Scoring and Cardiorespiratory Fitness for the Prediction of All-Cause Mortality and Myocardial Infarction: The Henry Ford Exercise Testing Project (The FIT Project). <i>American Journal of Cardiology</i> , 2019, 124, 511-517.	0.7	4
96	Towards a Framework for Mapping Between UML/OCL and XML/XQuery. <i>Lecture Notes in Computer Science</i> , 2004, , 241-259.	1.0	4
97	Liquid Benchmarks: Towards an Online Platform for Collaborative Assessment of Computer Science Research Results. <i>Lecture Notes in Computer Science</i> , 2011, , 10-24.	1.0	4
98	Towards making sense of Spark-SQL performance for processing vast distributed RDF datasets. , 2020, , .		4
99	Storing and Querying Graph Data Using Efficient Relational Processing Techniques. <i>Lecture Notes in Business Information Processing</i> , 2009, , 379-392.	0.8	3
100	EnterpriseÂ2.0: Research Challenges and Opportunities. <i>Lecture Notes in Business Information Processing</i> , 2015, , 16-30.	0.8	3
101	Composable and efficient functional big data processing framework. , 2015, , .		3
102	Big Data Processing Systems: State-of-the-Art and Open Challenges. , 2015, , .		3
103	Prognostic value of exercise capacity among patients with treated depression: The Henry Ford Exercise Testing (FIT) Project. <i>Clinical Cardiology</i> , 2018, 41, 532-538.	0.7	3
104	Editorial for Special Issue of Journal of Big Data Research on "Big Medical/Healthcare Data Analytics" Big Data Research, 2018, 13, 1-2.	2.6	3
105	How to Make Business Processes "Socialize"? EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2015, 2, 150284.	1.5	3
106	An Overview of Graph Indexing and Querying Techniques. <i>Advances in Data Mining and Database Management Book Series</i> , 0, , 71-88.	0.4	3
107	DIA: User-defined interval analytics on distributed streams. <i>Information Systems</i> , 2022, 104, 101679.	2.4	3
108	cSmartML: A Meta Learning-Based Framework for Automated Selection and Hyperparameter Tuning for Clustering. , 2021, , .		3

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109	Incorporating Uncertainty into In-Cloud Application Deployment Decisions for Availability. , 2013, , .		2
110	Improving Availability of Cloud-Based Applications through Deployment Choices. , 2013, , .		2
111	USING MACHINE LEARNING TO DEFINE THE ASSOCIATION BETWEEN CARDIORESPIRATORY FITNESS AND ALL-CAUSE MORTALITY: THE FIT (HENRY FORD EXERCISE TESTING) PROJECT. Journal of the American College of Cardiology, 2017, 69, 1612.	1.2	2
112	Centralized RDF Query Processing. , 2018, , 33-49.		2
113	FeedRank: A Semantic-Based Management System of Web Feeds. Lecture Notes in Computer Science, 2009, , 126-133.	1.0	2
114	Cardinality-Aware Purely Relational XQuery Processor. Journal of Database Management, 2009, 20, 76-125.	1.0	2
115	An Empirical Evaluation of XML Compression Tools. Lecture Notes in Computer Science, 2009, , 49-63.	1.0	2
116	Big Data Processing Systems. , 2014, , 135-176.		2
117	One Size Does Not Fit All: A Group-Based Service Selection for Web-Based Business Processes. , 2011, , .		1
118	Liquid benchmarks. , 2011, , .		1
119	An architecture framework for application-managed scaling of cloud-hosted relational databases. , 2012, , .		1
120	Compliance Monitoring as a Service: Requirements, Architecture and Implementation. , 2015, , .		1
121	A distributed query execution engine of big attributed graphs. SpringerPlus, 2016, 5, 665.	1.2	1
122	On Analyzing the Impact of Authors and Their Collaboration Patterns in the Major Computer Algorithms Research Conferences. Collnet Journal of Scientometrics and Information Management, 2016, 10, 155-173.	0.4	1
123	International conferences on computer system: Analysis of EuroSys, SOSP, and OSDI during 2006-2014. Collnet Journal of Scientometrics and Information Management, 2016, 10, 175-195.	0.4	1
124	Predictive Model for the Incidence of Hyperkalemia for Congestive Heart Failure Patients on Spironolactone. , 2018, , .		1
125	D \$\$^2\$\$ 2 IA: Stream Analytics on User-Defined Event Intervals. Lecture Notes in Computer Science, 2019, , 346-361.	1.0	1
126	SLA-Driven Database Replication on Virtualized Database Servers. , 2014, , 97-118.		1

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127	Efficient and Adaptable Query Workload-Aware Management for RDF Data. Lecture Notes in Computer Science, 2010, , 390-399.	1.0	1
128	Improving the Relational Evaluation of XML Queries by Means of Path Summaries. Lecture Notes in Computer Science, 2008, , 378-386.	1.0	1
129	The Family of Map-Reduce. , 2014, , 1-39.		1
130	On the Spectrum of Web Scale Data Management. , 2017, , 487-509.		1
131	An Overview of Graph Indexing and Querying Techniques. , 0, , 222-239.		1
132	XSelMark: A Micro-benchmark for Selectivity Estimation Approaches of XML Queries. Lecture Notes in Computer Science, 2008, , 735-744.	1.0	1
133	An efficient features-based processing technique for supergraph queries. , 2010, , .		0
134	MyDeepWeb: An Integration Service for Your OWN Deep Web Data. , 2011, , .		0
135	GDM 2012 Workshop Introduction. , 2012, , .		0
136	Large-Scale Data Management Techniques in Cloud Computing Platforms. , 0, , 85-123.		0
137	4th international workshop on graph data management: Techniques and application (GDM 2013) [front matter]. , 2013, , .		0
138	5th International Workshop on Graph Data Management: Techniques and applications (GDM 2014). , 2014, , .		0
139	New generation of big data processing systems: Technologies, challenges and opportunities. , 2015, , .		0
140	Tools, Use Cases, and Discussions. , 2016, , 135-150.		0
141	Non-native RDF Storage Engines. , 2017, , 339-364.		0
142	Invited Talks. , 2017, , .		0
143	Distributed RDF Query Processing. , 2018, , 51-83.		0
144	NoSQL Database Systems. , 2018, , 1-6.		0

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145	HDM-MC in-Action: A Framework for Big Data Analytics across Multiple Clusters. , 2018, , .		0
146	CARDIORESPIRATORY FITNESS AND INCIDENT STROKE TYPES: THE FIT (HENRY FORD EXERCISE TESTING) PROJECT. Journal of the American College of Cardiology, 2019, 73, 1697.	1.2	0
147	Calculation of Average Road Speed Based on Car-to-Car Messaging. , 2019, , .		0
148	Native Distributed RDF Systems. , 2019, , 1171-1178.		0
149	GDM2010 Workshop Organizersâ€™ Message. Lecture Notes in Computer Science, 2010, , 1-1.	1.0	0
150	On Efficient Evaluation of XML Queries. , 2011, , 239-293.		0
151	Cloud-Hosted Data Storage Systems. , 2014, , 21-45.		0
152	A Cloud-Based Platform for Democratizing and Socializing the Benchmarking Process. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.5	0
153	Native Distributed RDF Systems. , 2018, , 1-8.		0
154	NoSQL Database Systems. , 2018, , 1-6.		0
155	Framework-Based Scale-Out RDF Systems. , 2018, , 1-7.		0
156	Framework-Based Scale-Out RDF Systems. , 2019, , 771-777.		0
157	NoSQL Database Systems. , 2019, , 1193-1198.		0
158	Dagstuhl Seminar on Big Stream Processing. SIGMOD Record, 2019, 47, 36-39.	0.7	0
159	Large-Scale Graph Processing Systems. , 2020, , 59-93.		0
160	Large-Scale Machine/Deep Learning Frameworks. , 2020, , 117-126.		0
161	Large-Scale Stream Processing Systems. , 2020, , 95-115.		0
162	General-Purpose Big Data Processing Systems. , 2020, , 17-43.		0

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163	Large-Scale Processing Systems of Structured Data. , 2020, , 45-58.		0
164	Relational Techniques for Storing and Querying RDF Data. Advances in Data Mining and Database Management Book Series, 0, , 269-285.	0.4	0
165	Querying Graph Databases. Advances in Data Mining and Database Management Book Series, 0, , 304-322.	0.4	0