

Mohamed Medhat Gaber

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.

142
papers

2,802
citations

24
h-index

49
g-index

162
ext. papers

3,695
ext. citations

2.8
avg, IF

5.94
L-index

#	Paper	IF	Citations
142	Mining data streams. <i>SIGMOD Record</i> , 2005 , 34, 18-26	1.1	595
141	Classification of COVID-19 in chest X-ray images using DeTraC deep convolutional neural network. <i>Applied Intelligence</i> , 2020 , 51, 1-11	4.9	251
140	Imitation Learning. <i>ACM Computing Surveys</i> , 2017 , 50, 1-35	13.4	193
139	Random forests: from early developments to recent advancements. <i>Systems Science and Control Engineering</i> , 2014 , 2, 602-609	2	171
138	Classification of COVID-19 in chest X-ray images using DeTraC deep convolutional neural network		130
137	Adaptive mobile activity recognition system with evolving data streams. <i>Neurocomputing</i> , 2015 , 150, 304-317	5.4	74
136	Advances in data stream mining. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2012 , 2, 79-85	6.9	51
135	A rule dynamics approach to event detection in Twitter with its application to sports and politics. <i>Expert Systems With Applications</i> , 2016 , 55, 351-360	7.8	45
134	Activity Recognition with Evolving Data Streams. <i>ACM Computing Surveys</i> , 2018 , 51, 1-36	13.4	42
133	Next challenges for adaptive learning systems. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2012 , 14, 48-55	4.6	42
132	Mining recurring concepts in a dynamic feature space. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 95-110	10.3	39
131	A Survey of Classification Methods in Data Streams 2007 , 39-59		39
130	An efficient Self-Organizing Active Contour model for image segmentation. <i>Neurocomputing</i> , 2015 , 149, 820-835	5.4	38
129	Edge Machine Learning: Enabling Smart Internet of Things Applications. <i>Big Data and Cognitive Computing</i> , 2018 , 2, 26	3.5	37
128	A genetic algorithm approach to optimising random forests applied to class engineered data. <i>Information Sciences</i> , 2017 , 384, 220-234	7.7	35
127	DeTraC: Transfer Learning of Class Decomposed Medical Images in Convolutional Neural Networks. <i>IEEE Access</i> , 2020 , 8, 74901-74913	3.5	34
126	MARS: A Personalised Mobile Activity Recognition System 2012 ,		29

125	AnyNovel: detection of novel concepts in evolving data streams. <i>Evolving Systems</i> , 2016 , 7, 73-93	2.1	28
124	Density-Based Projected Clustering of Data Streams. <i>Lecture Notes in Computer Science</i> , 2012 , 311-324	0.9	28
123	RedEdge: A Novel Architecture for Big Data Processing in Mobile Edge Computing Environments. <i>Journal of Sensor and Actuator Networks</i> , 2017 , 6, 17	3.8	26
122	Data stream mining in ubiquitous environments: state-of-the-art and current directions. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2014 , 4, 116-138	6.9	25
121	A framework for resource-aware knowledge discovery in data streams 2006 ,		25
120	DETECTION AND CLASSIFICATION OF CHANGES IN EVOLVING DATA STREAMS. <i>International Journal of Information Technology and Decision Making</i> , 2006 , 05, 659-670	2.8	25
119	A Holistic Approach for Resource-aware Adaptive Data Stream Mining. <i>New Generation Computing</i> , 2006 , 25, 95-115	0.9	24
118	StreamAR: Incremental and Active Learning with Evolving Sensory Data for Activity Recognition 2012 ,		22
117	Pocket Data Mining: Towards Collaborative Data Mining in Mobile Computing Environments 2010 ,		21
116	Resource-aware Online Data Mining in Wireless Sensor Networks 2007 ,		21
115	Open Mobile Miner: A Toolkit for Building Situation-Aware Data Mining Applications. <i>Journal of Organizational Computing and Electronic Commerce</i> , 2013 , 23, 224-248	1.8	20
114	Energy conservation in wireless sensor networks: a rule-based approach. <i>Knowledge and Information Systems</i> , 2011 , 28, 579-614	2.4	20
113	Pocket Data Mining. <i>Studies in Big Data</i> , 2014 ,	0.9	19
112	Data Stream Mining 2009 , 759-787		17
111	TRCM: A Methodology for Temporal Analysis of Evolving Concepts in Twitter. <i>Lecture Notes in Computer Science</i> , 2013 , 135-145	0.9	17
110	A fine-grained Random Forests using class decomposition: an application to medical diagnosis. <i>Neural Computing and Applications</i> , 2016 , 27, 2279-2288	4.8	17
109	Deep imitation learning for 3D navigation tasks. <i>Neural Computing and Applications</i> , 2018 , 29, 389-404	4.8	17
108	A SOM-based Chinese model for unsupervised image segmentation. <i>Soft Computing</i> , 2017 , 21, 2047-2067	3.7	16

107	On expressiveness and uncertainty awareness in rule-based classification for data streams. <i>Neurocomputing</i> , 2017 , 265, 127-141	5.4	16
106	Clustering Distributed Time Series in Sensor Networks 2008 ,		16
105	Change detection in streaming data in the era of big data. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2014 , 16, 30-38	4.6	15
104	On-board Mining of Data Streams in Sensor Networks 2005 , 307-335		15
103	Internet of Things and data mining: From applications to techniques and systems. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2019 , 9, e1292	6.9	15
102	EACD: evolutionary adaptation to concept drifts in data streams. <i>Data Mining and Knowledge Discovery</i> , 2019 , 33, 663-694	5.6	14
101	Mobile Data Stream Mining: From Algorithms to Applications 2012 ,		14
100	An Information-Theoretic Approach for Setting the Optimal Number of Decision Trees in Random Forests 2013 ,		14
99	4S-DT: Self-Supervised Super Sample Decomposition for Transfer Learning With Application to COVID-19 Detection. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 2798-2808	10.3	14
98	CHIRPS: Explaining random forest classification. <i>Artificial Intelligence Review</i> , 2020 , 53, 5747-5788	9.7	13
97	Computationally Efficient Rule-Based Classification for Continuous Streaming Data 2014 , 21-34		13
96	Knowledge discovery from data streams. <i>Intelligent Data Analysis</i> , 2009 , 13, 403-404	1.1	12
95	Corona: Energy-Efficient Multi-query Processing in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2010 , 416-419	0.9	12
94	OntoPeFeGe: Ontology-Based Personalized Feedback Generator. <i>IEEE Access</i> , 2018 , 6, 31644-31664	3.5	11
93	An innovative framework for supporting big atmospheric data analytics via clustering-based spatio-temporal analysis. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 10, 3383-3398 ^{3.7}		11
92	Context-aware adaptive data stream mining. <i>Intelligent Data Analysis</i> , 2009 , 13, 423-434	1.1	11
91	Towards an Adaptive Approach for Mining Data Streams in Resource Constrained Environments. <i>Lecture Notes in Computer Science</i> , 2004 , 189-198	0.9	11
90	A non-canonical hybrid metaheuristic approach to adaptive data stream classification. <i>Future Generation Computer Systems</i> , 2020 , 102, 127-139	7.5	11

89	RA-SAX: Resource-Aware Symbolic Aggregate Approximation for Mobile ECG Analysis 2011 ,		10
88	Data Stream Mining Using Granularity-Based Approach. <i>Studies in Computational Intelligence</i> , 2009 , 47-66.8		10
87	GARF: Towards Self-optimised Random Forests. <i>Lecture Notes in Computer Science</i> , 2012 , 506-515	0.9	10
86	Expressive modeling for trusted big data analytics: techniques and applications in sentiment analysis. <i>Big Data Analytics</i> , 2017 , 2,	2.9	9
85	On the Relationship between Variational Level Set-Based and SOM-Based Active Contours. <i>Computational Intelligence and Neuroscience</i> , 2015 , 2015, 109029	3	9
84	Data Stream Processing in Sensor Networks 2007 , 41-48		9
83	Astronomy and Big Data. <i>Studies in Big Data</i> , 2014 ,	0.9	8
82	An overview of interactive visual data mining techniques for knowledge discovery. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2013 , 3, 239-256	6.9	8
81	Homogeneous and Heterogeneous Distributed Classification for Pocket Data Mining. <i>Lecture Notes in Computer Science</i> , 2012 , 183-205	0.9	8
80	Efficient Time Triggered Query Processing in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2007 , 391-402	0.9	8
79	Leap2Trend: A Temporal Word Embedding Approach for Instant Detection of Emerging Scientific Trends. <i>IEEE Access</i> , 2019 , 7, 176414-176428	3.5	8
78	Interactive self-adaptive clutter-aware visualisation for mobile data mining. <i>Journal of Computer and System Sciences</i> , 2013 , 79, 369-382	1	7
77	Evaluating the quality of the ontology-based auto-generated questions. <i>Smart Learning Environments</i> , 2017 , 4,	4.2	7
76	Deep Active Learning for Autonomous Navigation. <i>Communications in Computer and Information Science</i> , 2016 , 3-17	0.3	6
75	A Survey of SOM-Based Active Contour Models for Image Segmentation. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 293-302	0.4	6
74	Deep reward shaping from demonstrations 2017 ,		6
73	An analytical study of central and in-network data processing for wireless sensor networks. <i>Information Processing Letters</i> , 2009 , 110, 62-70	0.8	6
72	Resource-aware ECG analysis on mobile devices 2011 ,		6

71	A fuzzy approach for interpretation of ubiquitous data stream clustering and its application in road safety. <i>Intelligent Data Analysis</i> , 2007 , 11, 89-108	1.1	6
70	A Concurrent SOM-Based Chan-Vese Model for Image Segmentation. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 199-208	0.4	6
69	Energy-Aware Data Processing Techniques for Wireless Sensor Networks: A Review. <i>Lecture Notes in Computer Science</i> , 2011 , 117-137	0.9	6
68	CBARS: Cluster Based Classification for Activity Recognition Systems. <i>Communications in Computer and Information Science</i> , 2012 , 82-91	0.3	6
67	Resource-efficient fast prediction in healthcare data analytics: A pruned Random Forest regression approach. <i>Computing (Vienna/New York)</i> , 2020 , 102, 1187-1198	2.2	5
66	Scaling up Data Mining Techniques to Large Datasets Using Parallel and Distributed Processing. <i>Advanced Information and Knowledge Processing</i> , 2013 , 243-259	0.3	5
65	Adaptive Clutter-Aware Visualization for Mobile Data Stream Mining 2010 ,		5
64	KB-CB-N classification: Towards unsupervised approach for supervised learning 2011 ,		5
63	Context-Aware Collaborative Data Stream Mining in Ubiquitous Devices. <i>Lecture Notes in Computer Science</i> , 2011 , 22-33	0.9	5
62	Scholarly data mining: A systematic review of its applications. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2021 , 11, e1395	6.9	5
61	MCUa: Multi-level Context and Uncertainty aware Dynamic Deep Ensemble for Breast Cancer Histology Image Classification. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	5
60	A Hybrid Agent-Based and Probabilistic Model for Fine-Grained Behavioural Energy Waste Simulation 2017 ,		4
59	COLLABORATIVE DATA STREAM MINING IN UBIQUITOUS ENVIRONMENTS USING DYNAMIC CLASSIFIER SELECTION. <i>International Journal of Information Technology and Decision Making</i> , 2013 , 12, 1287-1308	2.8	4
58	An entropy-based approach to enhancing Random Forests. <i>Intelligent Decision Technologies</i> , 2013 , 7, 319-327	0.7	4
57	Distributed data stream classification for wireless sensor networks 2010 ,		4
56	Advances in data stream mining for mobile and ubiquitous environments 2011 ,		4
55	Making Sense of Ubiquitous Data Streams A Fuzzy Logic Approach. <i>Lecture Notes in Computer Science</i> , 2005 , 922-928	0.9	4
54	Rule Type Identification Using TRCM for Trend Analysis in Twitter 2013 , 273-278		4

53	Pocket Data Mining Framework. <i>Studies in Big Data</i> , 2014 , 23-40	0.9	4
52	Diversified Random Forests Using Random Subspaces. <i>Lecture Notes in Computer Science</i> , 2014 , 85-92	0.9	4
51	4S-DT: Self Supervised Super Sample Decomposition for Transfer learning with application to COVID-19 detection		4
50	Adaptive data stream mining for wireless sensor networks 2014 ,		3
49	Distributed hoeffding trees for pocket data mining 2011 ,		3
48	CLUB-DRF: A Clustering Approach to Extreme Pruning of Random Forests 2015 , 59-73		3
47	Cascading Probability Distributions in Agent-Based Models: An Application to Behavioural Energy Wastage. <i>Lecture Notes in Computer Science</i> , 2018 , 489-503	0.9	3
46	Situation-Aware Adaptive Visualization for Sensory Data Stream Mining. <i>Lecture Notes in Computer Science</i> , 2010 , 43-58	0.9	3
45	A Scalable Expressive Ensemble Learning Using Random Prism: A MapReduce Approach. <i>Lecture Notes in Computer Science</i> , 2015 , 90-107	0.9	3
44	Embed2Detect: temporally clustered embedded words for event detection in social media. <i>Machine Learning</i> ,1	4	3
43	3E-Net: Entropy-Based Elastic Ensemble of Deep Convolutional Neural Networks for Grading of Invasive Breast Carcinoma Histopathological Microscopic Images. <i>Entropy</i> , 2021 , 23,	2.8	3
42	RED-GENE: An Evolutionary Game Theoretic Approach to Adaptive Data Stream Classification. <i>IEEE Access</i> , 2019 , 7, 173944-173954	3.5	3
41	A Non-Intrusive Heuristic for Energy Messaging Intervention Modeled Using a Novel Agent-Based Approach. <i>IEEE Access</i> , 2019 , 7, 1627-1646	3.5	3
40	gbt-HIPS: Explaining the Classifications of Gradient Boosted Tree Ensembles. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2511	2.6	3
39	2018 ,		3
38	Predicting the Economic Impact of the COVID-19 Pandemic in the United Kingdom Using Time-Series Mining. <i>Economies</i> , 2021 , 9, 137	2	3
37	eRules: A Modular Adaptive Classification Rule Learning Algorithm for Data Streams 2012 , 65-78		3
36	Clustering-Based Spatio-Temporal Analysis of Big Atmospheric Data 2016 ,		2

35	Spatio-temporal analysis of Greenhouse Gas data via clustering techniques 2015 ,		2
34	Extraction of Unexpected Rules from Twitter Hashtags and its Application to Sport Events 2014 ,		2
33	Adopted Data Mining Methods. <i>Studies in Big Data</i> , 2014 , 31-42	0.9	2
32	Clutter-Adaptive Visualization for Mobile Data Mining 2010 ,		2
31	Knowledge discovery from sensor data (SensorKDD). <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2010 , 11, 84-87	4.6	2
30	A Rule Learning Approach to Energy Efficient Clustering in Wireless Sensor Networks 2008 ,		2
29	A Time-Series Self-Supervised Learning Approach to Detection of Cyber-physical Attacks in Water Distribution Systems. <i>Energies</i> , 2022 , 15, 914	3.1	2
28	DeepStreamOS: Fast open-Set classification for convolutional neural networks. <i>Pattern Recognition Letters</i> , 2022 , 154, 75-82	4.7	2
27	Ensemble Dynamics in Non-stationary Data Stream Classification. <i>Studies in Big Data</i> , 2019 , 123-153	0.9	2
26	A Replicator Dynamics Approach to Collective Feature Engineering in Random Forests 2015 , 25-41		2
25	Distributed Classification for Pocket Data Mining. <i>Lecture Notes in Computer Science</i> , 2011 , 336-345	0.9	2
24	An Outlier Ranking Tree Selection Approach to Extreme Pruning of Random Forests. <i>Communications in Computer and Information Science</i> , 2016 , 267-282	0.3	2
23	A Frequent Pattern Conjunction Heuristic for Rule Generation in Data Streams. <i>Information (Switzerland)</i> , 2021 , 12, 24	2.6	2
22	k-NN Embedding Stability for word2vec Hyper-Parametrisation in Scientific Text. <i>Lecture Notes in Computer Science</i> , 2018 , 328-343	0.9	2
21	TONE 2019 ,		1
20	Bigger data for big data: from Twitter to brain-computer interfaces. <i>Behavioral and Brain Sciences</i> , 2014 , 37, 97-8	0.9	1
19	Deploying Mobile Software Agents for Distributed Data Mining on Wireless Sensor Networks: A Comparative Analysis 2012 ,		1
18	Knowledge discovery from sensor data (SensorKDD). <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2011 , 12, 50-53	4.6	1

17	ARTS: Adaptive Rule Triggers on Sensors for Energy Conservation in Applications using Coarse-Granularity Data 2008 ,		1
16	Foundations of Adaptive Data Stream Mining for Mobile and Embedded Applications 2008 ,		1
15	On the Integration of Data Stream Clustering into a Query Processor for Wireless Sensor Networks 2007 ,		1
14	Autonomic Discovery of News Evolvement in Twitter. <i>Studies in Big Data</i> , 2015 , 205-229	0.9	1
13	Data Science and Distributed Intelligence: Recent Developments and Future Insights. <i>Studies in Computational Intelligence</i> , 2013 , 139-147	0.8	1
12	Identifying Uncertain Galaxy Morphologies Using Unsupervised Learning. <i>Lecture Notes in Computer Science</i> , 2013 , 146-157	0.9	1
11	A Graph-Based Approach to Interpreting Recurrent Neural Networks in Process Mining. <i>IEEE Access</i> , 2020 , 8, 172923-172938	3.5	1
10	eGAP: An Evolutionary Game Theoretic Approach to Random Forest Pruning. <i>Big Data and Cognitive Computing</i> , 2020 , 4, 37	3.5	1
9	2019 ,		1
8	Data Stream Clustering for Real-Time Anomaly Detection: An Application to Insider Threats. <i>Unsupervised and Semi-supervised Learning</i> , 2019 , 115-144	0.9	1
7	An Agent-Based Collective Model to Simulate Peer Pressure Effect on Energy Consumption. <i>Lecture Notes in Computer Science</i> , 2018 , 283-296	0.9	1
6	Distributed Classification of Data Streams: An Adaptive Technique. <i>Lecture Notes in Computer Science</i> , 2015 , 296-309	0.9	
5	Data Science and Distributed Intelligence 2015 , 1732-1740		
4	Knowledge discovery from sensor data (SensorKDD). <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2008 , 10, 68-73	4.6	
3	Co-eye: a multi-resolution ensemble classifier for symbolically approximated time series. <i>Machine Learning</i> , 2020 , 109, 2029-2061	4	
2	Vec2Dynamics: A Temporal Word Embedding Approach to Exploring the Dynamics of Scientific Keywords Machine Learning as a Case Study. <i>Big Data and Cognitive Computing</i> , 2022 , 6, 21	3.5	
1	Pruned Random Forests for Effective and Efficient Financial Data Analytics. <i>Contributions To Finance and Accounting</i> , 2022 , 225-249		