

# Mohamed Medhat Gaber

## List of Publications by Year in Descending Order

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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	A Time-Series Self-Supervised Learning Approach to Detection of Cyber-physical Attacks in Water Distribution Systems. <i>Energies</i> , <b>2022</b> , 15, 914	3.1	2
141	DeepStreamOS: Fast open-Set classification for convolutional neural networks. <i>Pattern Recognition Letters</i> , <b>2022</b> , 154, 75-82	4.7	2
140	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> , <b>2022</b> , 6, 21	3.5	
139	Pruned Random Forests for Effective and Efficient Financial Data Analytics. <i>Contributions To Finance and Accounting</i> , <b>2022</b> , 225-249		
138	3E-Net: Entropy-Based Elastic Ensemble of Deep Convolutional Neural Networks for Grading of Invasive Breast Carcinoma Histopathological Microscopic Images. <i>Entropy</i> , <b>2021</b> , 23,	2.8	3
137	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> , <b>2021</b> , 32, 2798-2808	10.3	14
136	Scholarly data mining: A systematic review of its applications. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2021</b> , 11, e1395	6.9	5
135	A Frequent Pattern Conjunction Heuristic for Rule Generation in Data Streams. <i>Information (Switzerland)</i> , <b>2021</b> , 12, 24	2.6	2
134	gbt-HIPS: Explaining the Classifications of Gradient Boosted Tree Ensembles. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2511	2.6	3
133	Predicting the Economic Impact of the COVID-19 Pandemic in the United Kingdom Using Time-Series Mining. <i>Economies</i> , <b>2021</b> , 9, 137	2	3
132	MCUa: Multi-level Context and Uncertainty aware Dynamic Deep Ensemble for Breast Cancer Histology Image Classification. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , PP,	5	5
131	CHIRPS: Explaining random forest classification. <i>Artificial Intelligence Review</i> , <b>2020</b> , 53, 5747-5788	9.7	13
130	Resource-efficient fast prediction in healthcare data analytics: A pruned Random Forest regression approach. <i>Computing (Vienna/New York)</i> , <b>2020</b> , 102, 1187-1198	2.2	5
129	A Graph-Based Approach to Interpreting Recurrent Neural Networks in Process Mining. <i>IEEE Access</i> , <b>2020</b> , 8, 172923-172938	3.5	1
128	Co-eye: a multi-resolution ensemble classifier for symbolically approximated time series. <i>Machine Learning</i> , <b>2020</b> , 109, 2029-2061	4	
127	eGAP: An Evolutionary Game Theoretic Approach to Random Forest Pruning. <i>Big Data and Cognitive Computing</i> , <b>2020</b> , 4, 37	3.5	1
126	A non-canonical hybrid metaheuristic approach to adaptive data stream classification. <i>Future Generation Computer Systems</i> , <b>2020</b> , 102, 127-139	7.5	11

125	DeTrac: Transfer Learning of Class Decomposed Medical Images in Convolutional Neural Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 74901-74913	3.5	34
124	Classification of COVID-19 in chest X-ray images using DeTraC deep convolutional neural network. <i>Applied Intelligence</i> , <b>2020</b> , 51, 1-11	4.9	251
123	TONE <b>2019</b> ,		1
122	EACD: evolutionary adaptation to concept drifts in data streams. <i>Data Mining and Knowledge Discovery</i> , <b>2019</b> , 33, 663-694	5.6	14
121	An innovative framework for supporting big atmospheric data analytics via clustering-based spatio-temporal analysis. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2019</b> , 10, 3383-3398 <sup>3.7</sup>		11
120	Ensemble Dynamics in Non-stationary Data Stream Classification. <i>Studies in Big Data</i> , <b>2019</b> , 123-153	0.9	2
119	<b>2019</b> ,		1
118	Leap2Trend: A Temporal Word Embedding Approach for Instant Detection of Emerging Scientific Trends. <i>IEEE Access</i> , <b>2019</b> , 7, 176414-176428	3.5	8
117	RED-GENE: An Evolutionary Game Theoretic Approach to Adaptive Data Stream Classification. <i>IEEE Access</i> , <b>2019</b> , 7, 173944-173954	3.5	3
116	Data Stream Clustering for Real-Time Anomaly Detection: An Application to Insider Threats. <i>Unsupervised and Semi-supervised Learning</i> , <b>2019</b> , 115-144	0.9	1
115	Internet of Things and data mining: From applications to techniques and systems. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2019</b> , 9, e1292	6.9	15
114	A Non-Intrusive Heuristic for Energy Messaging Intervention Modeled Using a Novel Agent-Based Approach. <i>IEEE Access</i> , <b>2019</b> , 7, 1627-1646	3.5	3
113	OntoPeFeGe: Ontology-Based Personalized Feedback Generator. <i>IEEE Access</i> , <b>2018</b> , 6, 31644-31664	3.5	11
112	Activity Recognition with Evolving Data Streams. <i>ACM Computing Surveys</i> , <b>2018</b> , 51, 1-36	13.4	42
111	Cascading Probability Distributions in Agent-Based Models: An Application to Behavioural Energy Wastage. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 489-503	0.9	3
110	Deep imitation learning for 3D navigation tasks. <i>Neural Computing and Applications</i> , <b>2018</b> , 29, 389-404	4.8	17
109	Edge Machine Learning: Enabling Smart Internet of Things Applications. <i>Big Data and Cognitive Computing</i> , <b>2018</b> , 2, 26	3.5	37
108	k-NN Embedding Stability for word2vec Hyper-Parametrisation in Scientific Text. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 328-343	0.9	2

107	<b>2018,</b>		3
106	An Agent-Based Collective Model to Simulate Peer Pressure Effect on Energy Consumption. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 283-296	0.9	1
105	A SOM-based Chinese model for unsupervised image segmentation. <i>Soft Computing</i> , <b>2017</b> , 21, 2047-2067	9.7	16
104	Expressive modeling for trusted big data analytics: techniques and applications in sentiment analysis. <i>Big Data Analytics</i> , <b>2017</b> , 2,	2.9	9
103	Imitation Learning. <i>ACM Computing Surveys</i> , <b>2017</b> , 50, 1-35	13.4	193
102	A Hybrid Agent-Based and Probabilistic Model for Fine-Grained Behavioural Energy Waste Simulation <b>2017</b> ,		4
101	On expressiveness and uncertainty awareness in rule-based classification for data streams. <i>Neurocomputing</i> , <b>2017</b> , 265, 127-141	5.4	16
100	Deep reward shaping from demonstrations <b>2017</b> ,		6
99	A genetic algorithm approach to optimising random forests applied to class engineered data. <i>Information Sciences</i> , <b>2017</b> , 384, 220-234	7.7	35
98	Evaluating the quality of the ontology-based auto-generated questions. <i>Smart Learning Environments</i> , <b>2017</b> , 4,	4.2	7
97	RedEdge: A Novel Architecture for Big Data Processing in Mobile Edge Computing Environments. <i>Journal of Sensor and Actuator Networks</i> , <b>2017</b> , 6, 17	3.8	26
96	Deep Active Learning for Autonomous Navigation. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 3-17	0.3	6
95	Clustering-Based Spatio-Temporal Analysis of Big Atmospheric Data <b>2016</b> ,		2
94	AnyNovel: detection of novel concepts in evolving data streams. <i>Evolving Systems</i> , <b>2016</b> , 7, 73-93	2.1	28
93	A rule dynamics approach to event detection in Twitter with its application to sports and politics. <i>Expert Systems With Applications</i> , <b>2016</b> , 55, 351-360	7.8	45
92	An Outlier Ranking Tree Selection Approach to Extreme Pruning of Random Forests. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 267-282	0.3	2
91	A fine-grained Random Forests using class decomposition: an application to medical diagnosis. <i>Neural Computing and Applications</i> , <b>2016</b> , 27, 2279-2288	4.8	17
90	Distributed Classification of Data Streams: An Adaptive Technique. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 296-309	0.9	

89	Adaptive mobile activity recognition system with evolving data streams. <i>Neurocomputing</i> , <b>2015</b> , 150, 304-317	5.4	74
88	An efficient Self-Organizing Active Contour model for image segmentation. <i>Neurocomputing</i> , <b>2015</b> , 149, 820-835	5.4	38
87	On the Relationship between Variational Level Set-Based and SOM-Based Active Contours. <i>Computational Intelligence and Neuroscience</i> , <b>2015</b> , 2015, 109029	3	9
86	Spatio-temporal analysis of Greenhouse Gas data via clustering techniques <b>2015</b> ,		2
85	Autonomic Discovery of News Evolvement in Twitter. <i>Studies in Big Data</i> , <b>2015</b> , 205-229	0.9	1
84	A Replicator Dynamics Approach to Collective Feature Engineering in Random Forests <b>2015</b> , 25-41		2
83	CLUB-DRF: A Clustering Approach to Extreme Pruning of Random Forests <b>2015</b> , 59-73		3
82	A Scalable Expressive Ensemble Learning Using Random Prism: A MapReduce Approach. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 90-107	0.9	3
81	Data Science and Distributed Intelligence <b>2015</b> , 1732-1740		
80	Astronomy and Big Data. <i>Studies in Big Data</i> , <b>2014</b> ,	0.9	8
79	Change detection in streaming data in the era of big data. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , <b>2014</b> , 16, 30-38	4.6	15
78	Mining recurring concepts in a dynamic feature space. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2014</b> , 25, 95-110	10.3	39
77	Adaptive data stream mining for wireless sensor networks <b>2014</b> ,		3
76	A Survey of SOM-Based Active Contour Models for Image Segmentation. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 293-302	0.4	6
75	Random forests: from early developments to recent advancements. <i>Systems Science and Control Engineering</i> , <b>2014</b> , 2, 602-609	2	171
74	Extraction of Unexpected Rules from Twitter Hashtags and its Application to Sport Events <b>2014</b> ,		2
73	Data stream mining in ubiquitous environments: state-of-the-art and current directions. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2014</b> , 4, 116-138	6.9	25
72	Bigger data for big data: from Twitter to brain-computer interfaces. <i>Behavioral and Brain Sciences</i> , <b>2014</b> , 37, 97-8	0.9	1

71	Adopted Data Mining Methods. <i>Studies in Big Data</i> , <b>2014</b> , 31-42	0.9	2
70	Pocket Data Mining. <i>Studies in Big Data</i> , <b>2014</b> ,	0.9	19
69	Pocket Data Mining Framework. <i>Studies in Big Data</i> , <b>2014</b> , 23-40	0.9	4
68	A Concurrent SOM-Based Chan-Vese Model for Image Segmentation. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 199-208	0.4	6
67	Diversified Random Forests Using Random Subspaces. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 85-92	0.9	4
66	Computationally Efficient Rule-Based Classification for Continuous Streaming Data <b>2014</b> , 21-34		13
65	An overview of interactive visual data mining techniques for knowledge discovery. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2013</b> , 3, 239-256	6.9	8
64	Interactive self-adaptive clutter-aware visualisation for mobile data mining. <i>Journal of Computer and System Sciences</i> , <b>2013</b> , 79, 369-382	1	7
63	Scaling up Data Mining Techniques to Large Datasets Using Parallel and Distributed Processing. <i>Advanced Information and Knowledge Processing</i> , <b>2013</b> , 243-259	0.3	5
62	An Information-Theoretic Approach for Setting the Optimal Number of Decision Trees in Random Forests <b>2013</b> ,		14
61	Open Mobile Miner: A Toolkit for Building Situation-Aware Data Mining Applications. <i>Journal of Organizational Computing and Electronic Commerce</i> , <b>2013</b> , 23, 224-248	1.8	20
60	COLLABORATIVE DATA STREAM MINING IN UBIQUITOUS ENVIRONMENTS USING DYNAMIC CLASSIFIER SELECTION. <i>International Journal of Information Technology and Decision Making</i> , <b>2013</b> , 12, 1287-1308	2.8	4
59	An entropy-based approach to enhancing Random Forests. <i>Intelligent Decision Technologies</i> , <b>2013</b> , 7, 319-327	0.7	4
58	Rule Type Identification Using TRCM for Trend Analysis in Twitter <b>2013</b> , 273-278		4
57	Data Science and Distributed Intelligence: Recent Developments and Future Insights. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 139-147	0.8	1
56	TRCM: A Methodology for Temporal Analysis of Evolving Concepts in Twitter. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 135-145	0.9	17
55	Identifying Uncertain Galaxy Morphologies Using Unsupervised Learning. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 146-157	0.9	1
54	MARS: A Personalised Mobile Activity Recognition System <b>2012</b> ,		29

53	Mobile Data Stream Mining: From Algorithms to Applications <b>2012</b> ,		14
52	Density-Based Projected Clustering of Data Streams. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 311-324	0.9	28
51	Deploying Mobile Software Agents for Distributed Data Mining on Wireless Sensor Networks: A Comparative Analysis <b>2012</b> ,		1
50	Next challenges for adaptive learning systems. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , <b>2012</b> , 14, 48-55	4.6	42
49	Advances in data stream mining. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2012</b> , 2, 79-85	6.9	51
48	Homogeneous and Heterogeneous Distributed Classification for Pocket Data Mining. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 183-205	0.9	8
47	StreamAR: Incremental and Active Learning with Evolving Sensory Data for Activity Recognition <b>2012</b> ,		22
46	GARF: Towards Self-optimised Random Forests. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 506-515	0.9	10
45	CBARS: Cluster Based Classification for Activity Recognition Systems. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 82-91	0.3	6
44	eRules: A Modular Adaptive Classification Rule Learning Algorithm for Data Streams <b>2012</b> , 65-78		3
43	Energy conservation in wireless sensor networks: a rule-based approach. <i>Knowledge and Information Systems</i> , <b>2011</b> , 28, 579-614	2.4	20
42	KB-CB-N classification: Towards unsupervised approach for supervised learning <b>2011</b> ,		5
41	Distributed hoeffding trees for pocket data mining <b>2011</b> ,		3
40	Resource-aware ECG analysis on mobile devices <b>2011</b> ,		6
39	RA-SAX: Resource-Aware Symbolic Aggregate Approximation for Mobile ECG Analysis <b>2011</b> ,		10
38	Knowledge discovery from sensor data (SensorKDD). <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , <b>2011</b> , 12, 50-53	4.6	1
37	Context-Aware Collaborative Data Stream Mining in Ubiquitous Devices. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 22-33	0.9	5
36	Advances in data stream mining for mobile and ubiquitous environments <b>2011</b> ,		4

35	Distributed Classification for Pocket Data Mining. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 336-345	0.9	2
34	Energy-Aware Data Processing Techniques for Wireless Sensor Networks: A Review. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 117-137	0.9	6
33	Clutter-Adaptive Visualization for Mobile Data Mining <b>2010</b> ,		2
32	Distributed data stream classification for wireless sensor networks <b>2010</b> ,		4
31	Pocket Data Mining: Towards Collaborative Data Mining in Mobile Computing Environments <b>2010</b> ,		21
30	Adaptive Clutter-Aware Visualization for Mobile Data Stream Mining <b>2010</b> ,		5
29	Knowledge discovery from sensor data (SensorKDD). <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , <b>2010</b> , 11, 84-87	4.6	2
28	Corona: Energy-Efficient Multi-query Processing in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 416-419	0.9	12
27	Situation-Aware Adaptive Visualization for Sensory Data Stream Mining. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 43-58	0.9	3
26	Knowledge discovery from data streams. <i>Intelligent Data Analysis</i> , <b>2009</b> , 13, 403-404	1.1	12
25	Context-aware adaptive data stream mining. <i>Intelligent Data Analysis</i> , <b>2009</b> , 13, 423-434	1.1	11
24	An analytical study of central and in-network data processing for wireless sensor networks. <i>Information Processing Letters</i> , <b>2009</b> , 110, 62-70	0.8	6
23	Data Stream Mining Using Granularity-Based Approach. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 47-66.8		10
22	Data Stream Mining <b>2009</b> , 759-787		17
21	Clustering Distributed Time Series in Sensor Networks <b>2008</b> ,		16
20	ARTS: Adaptive Rule Triggers on Sensors for Energy Conservation in Applications using Coarse-Granularity Data <b>2008</b> ,		1
19	A Rule Learning Approach to Energy Efficient Clustering in Wireless Sensor Networks <b>2008</b> ,		2
18	Foundations of Adaptive Data Stream Mining for Mobile and Embedded Applications <b>2008</b> ,		1



17	Knowledge discovery from sensor data (SensorKDD). <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , <b>2008</b> , 10, 68-73	4.6	
16	Resource-aware Online Data Mining in Wireless Sensor Networks <b>2007</b> ,		21
15	A fuzzy approach for interpretation of ubiquitous data stream clustering and its application in road safety. <i>Intelligent Data Analysis</i> , <b>2007</b> , 11, 89-108	1.1	6
14	On the Integration of Data Stream Clustering into a Query Processor for Wireless Sensor Networks <b>2007</b> ,		1
13	A Survey of Classification Methods in Data Streams <b>2007</b> , 39-59		39
12	Efficient Time Triggered Query Processing in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 391-402	0.9	8
11	Data Stream Processing in Sensor Networks <b>2007</b> , 41-48		9
10	A framework for resource-aware knowledge discovery in data streams <b>2006</b> ,		25
9	DETECTION AND CLASSIFICATION OF CHANGES IN EVOLVING DATA STREAMS. <i>International Journal of Information Technology and Decision Making</i> , <b>2006</b> , 05, 659-670	2.8	25
8	A Holistic Approach for Resource-aware Adaptive Data Stream Mining. <i>New Generation Computing</i> , <b>2006</b> , 25, 95-115	0.9	24
7	Mining data streams. <i>SIGMOD Record</i> , <b>2005</b> , 34, 18-26	1.1	595
6	On-board Mining of Data Streams in Sensor Networks <b>2005</b> , 307-335		15
5	Making Sense of Ubiquitous Data Streams [A Fuzzy Logic Approach]. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 922-928	0.9	4
4	Towards an Adaptive Approach for Mining Data Streams in Resource Constrained Environments. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 189-198	0.9	11
3	Classification of COVID-19 in chest X-ray images using DeTraC deep convolutional neural network		130
2	4S-DT: Self Supervised Super Sample Decomposition for Transfer learning with application to COVID-19 detection		4
1	Embed2Detect: temporally clustered embedded words for event detection in social media. <i>Machine Learning</i> , <sup>1</sup>	4	3