Ashfaqur Rahman

List of Publications by Year
in descending order

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104	1,610	430874	377865
papers	citations	18	34
		h-index	g-index

105	105	105	1477
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Behavior classification of cows fitted with motion collars: Decomposing multi-class classification into a set of binary problems. Computers and Electronics in Agriculture, 2016, 131, 40-50.	7.7	86
2	Multi-objective resource allocation for Edge Cloud based robotic workflow in smart factory. Future Generation Computer Systems, 2019, 97, 119-130.	7.5	82
3	Detecting heat events in dairy cows using accelerometers and unsupervised learning. Computers and Electronics in Agriculture, 2016, 128, 20-26.	7.7	79
4	Novel Layered Clustering-Based Approach for Generating Ensemble of Classifiers. IEEE Transactions on Neural Networks, 2011, 22, 781-792.	4.2	77
5	Cluster-Oriented Ensemble Classifier: Impact of Multicluster Characterization on Ensemble Classifier Learning. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 605-618.	5.7	74
6	Cattle behaviour classification from collar, halter, and ear tag sensors. Information Processing in Agriculture, 2018, 5, 124-133.	4.1	72
7	HazeEst: Machine Learning Based Metropolitan Air Pollution Estimation From Fixed and Mobile Sensors. IEEE Sensors Journal, 2017, 17, 3517-3525.	4.7	66
8	Resource Allocation and Service Provisioning in Multi-Agent Cloud Robotics: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 842-870.	39.4	66
9	Design and Evaluation of a Metropolitan Air Pollution Sensing System. IEEE Sensors Journal, 2016, 16, 1448-1459.	4.7	56
10	Ensemble classifier generation using non-uniform layered clustering and Genetic Algorithm. Knowledge-Based Systems, 2013, 43, 30-42.	7.1	51
11	Multiple steps ahead solar photovoltaic power forecasting based on univariate machine learning models and data re-sampling. Sustainable Energy, Grids and Networks, 2020, 21, 100286.	3.9	49
12	Use of sensor-determined behaviours to develop algorithms for pasture intake by individual grazing cattle. Crop and Pasture Science, 2017, 68, 1091.	1.5	48
13	Communication-Aware Cloud Robotic Task Offloading With On-Demand Mobility for Smart Factory Maintenance. IEEE Transactions on Industrial Informatics, 2019, 15, 2500-2511.	11.3	44
14	Wind power prediction in new stations based on knowledge of existing Stations: A cluster based multi source domain adaptation approach. Knowledge-Based Systems, 2018, 145, 15-24.	7.1	32
15	Effect of ensemble classifier composition on offline cursive character recognition. Information Processing and Management, 2013, 49, 852-864.	8.6	26
16	A Cloud Robotics Framework of Optimal Task Offloading for Smart City Applications. , 2016, , .		25
17	A Novel Machine Learning Approach Toward Quality Assessment of Sensor Data. IEEE Sensors Journal, 2014, 14, 1035-1047.	4.7	24
18	Energy-efficient optimal task offloading in cloud networked multi-robot systems. Computer Networks, 2019, 160, 11-32.	5.1	22

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19	Clusterâ€based ensemble of classifiers. Expert Systems, 2013, 30, 270-282.	4.5	21
20	Motion and Connectivity Aware Offloading in Cloud Robotics via Genetic Algorithm. , 2017, , .		21
21	Cloud-Enhanced Robotic System for Smart City Crowd Control. Journal of Sensor and Actuator Networks, 2016, 5, 20.	3.9	19
22	Dissolved oxygen prediction in prawn ponds from a group of one step predictors. Information Processing in Agriculture, 2020, 7, 307-317.	4.1	19
23	An Image Based Approach to Compute Object Distance. International Journal of Computational Intelligence Systems, 2008, 1, 304-312.	2.7	18
24	State Space Models for Forecasting Water Quality Variables. , 2018, , .		18
25	An integrated framework of sensing, machine learning, and augmented reality for aquaculture prawn farm management. Aquacultural Engineering, 2021, 95, 102192.	3.1	16
26	Detection of Multiple Dynamic Textures Using Feature Space Mapping. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 766-771.	8.3	15
27	A novel ensemble classifier approach using weak classifier learning on overlapping clusters. , 2010, , .		15
28	Air Pollution Exposure Estimation and Finding Association with Human Activity using Wearable Sensor Network. , 2014, , .		15
29	A Temporal Texture Characterization Technique Using Block-Based Approximated Motion Measure. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1370-1382.	8.3	14
30	Personalising pollution exposure estimates using wearable activity sensors. , 2014, , .		14
31	An investigation of cow feeding behavior using motion sensors. , 2014, , .		14
32	Predicting shellfish farm closures using time series classification for aquaculture decision support. Computers and Electronics in Agriculture, 2014, 102, 85-97.	7.7	14
33	Machine learning approach to investigate the influence of water quality on aquatic livestock in freshwater ponds. Biosystems Engineering, 2021, 208, 164-175.	4.3	14
34	Convolutional Neural Network for Time Series Cattle Behaviour Classification. , 2016, , .		13
35	Wind Power Prediction Using Cluster Based Ensemble Regression. International Journal of Computational Intelligence and Applications, 2017, 16, 1750026.	0.8	13
36	ForecastNet: A Time-Variant Deep Feed-Forward Neural Network Architecture for Multi-step-Ahead Time-Series Forecasting. Lecture Notes in Computer Science, 2020, , 579-591.	1.3	13

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37	A study of sensor derived features in cattle behaviour classification models. , 2015, , .		12
38	A comparison of autoencoder and statistical features for cattle behaviour classification. , 2016, , .		12
39	Autoencoder for wind power prediction. Renewables: Wind, Water, and Solar, 2017, 4, .	3.7	12
40	Predicting Shellfish Farm Closures with Class Balancing Methods. Lecture Notes in Computer Science, 2012, , 39-48.	1.3	12
41	ALGAE GROWTH PREDICTION THROUGH IDENTIFICATION OF INFLUENTIAL ENVIRONMENTAL VARIABLES: A MACHINE LEARNING APPROACH. International Journal of Computational Intelligence and Applications, 2013, 12, 1350008.	0.8	11
42	Energy-Delay Co-optimization of Resource Allocation for Robotic Services in Cloudlet Infrastructure. Lecture Notes in Computer Science, 2018, , 295-303.	1.3	11
43	Malware detection in edge devices with fuzzy oversampling and dynamic class weighting. Applied Soft Computing Journal, 2021, 112, 107783.	7.2	11
44	An hierarchical approach towards road image segmentation. , 2012, , .		10
45	Identification of mature grape bunches using image processing and computational intelligence methods. , 2014, , .		10
46	An Algorithm for the Automatic Analysis of Signals From an Oyster Heart Rate Sensor. IEEE Sensors Journal, 2015, 15, 4480-4487.	4.7	10
47	Prediction of Dissolved Oxygen from pH and Water Temperature in Aquaculture Prawn Ponds. , 2018, , .		10
48	Nonâ€“uniform Layered Clustering for Ensemble Classifier Generation and Optimality. Lecture Notes in Computer Science, 2010, , 551-558.	1.3	10
49	Heat event detection in dairy cows with collar sensors: An unsupervised machine learning approach. , 2015, , .		9
50	SVR based dense air pollution estimation model using static and wireless sensor network. , 2016, , .		9
51	Spatial-temporal prediction of algal bloom. , 2013, , .		8
52	Ensemble Feature Ranking for Shellfish Farm Closure Cause Identification. , 2013, , .		8
53	Ensemble aggregation methods for relocating models of rare events. Engineering Applications of Artificial Intelligence, 2014, 34, 58-65.	8.1	8
54	Recurrent Neural Networks for One Day Ahead Prediction of Stream Flow. , 2016, , .		8

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55	Robotic Edge Resource Allocation for Agricultural Cyber-Physical System. IEEE Transactions on Network Science and Engineering, 2022, 9, 3979-3990.	6.4	8
56	Multiple classifier system for automated quality assessment of marine sensor data. , 2013, , .		7
57	Association Between Imaging and XRF Sensing: A Machine Learning Approach to Discover Mineralogy in Abandoned Mine Voids. IEEE Sensors Journal, 2016, 16, 4555-4565.	4.7	7
58	Identification of variables affecting production outcome in prawn ponds: A machine learning approach. Computers and Electronics in Agriculture, 2019, 156, 618-626.	7.7	7
59	Quantification of differences in resistance to gastrointestinal nematode infections in sheep using a multivariate blood parameter. Veterinary Parasitology, 2019, 270, 31-39.	1.8	7
60	Dynamic Ensemble Using Previous and Predicted Future Performance for Multi-step-ahead Solar Power Forecasting. Lecture Notes in Computer Science, 2019, , 436-449.	1.3	7
61	Similarity Weighted Ensembles for Relocating Models of Rare Events. Lecture Notes in Computer Science, 2013, , 25-36.	1.3	7
62	Impute vs. Ignore: Missing values for prediction. , 2013, , .		6
63	Dealing with missing sensor values in predicting shellfish farm closure. , 2013, , .		6
64	An Image Based Approach to Compute Object Distance. International Journal of Computational Intelligence Systems, 2008, 1, 304.	2.7	6
65	Feature Weighting and Retrieval Methods for Dynamic Texture Motion Features. International Journal of Computational Intelligence Systems, 2009, 2, 27-38.	2.7	5
66	On detecting and predicting harmful algal blooms in coastal information systems. , 2012, , .		5
67	Cluster oriented ensemble classifiers using multi-objective evolutionary algorithm. , 2013, , .		5
68	Shellfish farm closure prediction and cause identification using machine learning methods. Computers and Electronics in Agriculture, 2015, 110, 241-248.	7.7	5
69	Temporal Texture Characterization: A Review. Studies in Computational Intelligence, 2008, , 291-316.	0.9	5
70	Multiple temporal texture detection using feature space mapping. , 2007, , .		4
71	Segmentation of dynamic textures. , 2007, , .		4
72	Benthic Habitat Mapping from Seabed Images using Ensemble of Color, Texture, and Edge Features. International Journal of Computational Intelligence Systems, 2013, 6, 1072-1081.	2.7	4

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73	CLUSTER BASED ENSEMBLE CLASSIFIER GENERATION BY JOINT OPTIMIZATION OF ACCURACY AND DIVERSITY. International Journal of Computational Intelligence and Applications, 2013, 12, 1340003.	0.8	4
74	Occlusion Handling in Object Detection. , 2012, , 61-74.		4
75	A Motion-Based Approach for Temporal Texture Synthesis. , 2005, , .		3
76	A neural network and SOM based approach to analyse periodic signals: Application to Oyster heart-rate data. , 2014, , .		3
77	A hierarchical learning approach to calibrate allele frequencies for SNP based genotyping of DNA pools. , 2014, , .		3
78	Improving air pollution forecast with ubiquitous mobile sensor network. , 2014, , .		3
79	Allele frequency calibration for SNP based genotyping of DNA pools: A regression based localâ€“global error fusion method. Computers in Biology and Medicine, 2015, 61, 48-55.	7.0	3
80	Machine learning approach for pooled DNA sample calibration. BMC Bioinformatics, 2015, 16, 214.	2.6	3
81	Comparison and Sensitivity Analysis of Methods for Solar PV Power Prediction. Lecture Notes in Computer Science, 2018, , 333-344.	1.3	3
82	Ensemble classifier composition: Impact on feature based offline cursive character recognition. , 2011, , .		2
83	Influence of unstable patterns in layered cluster oriented ensemble classifier. , 2012, , .		2
84	Energy disaggregation using ensemble of classifiers. , 2013, , .		2
85	Exploring mineral domains with genetic algorithm. , 2013, , .		2
86	Distributed Feature Selection with Big Sensor Data. , 2014, , .		2
87	A time series ensemble method to predict wind power. , 2014, , .		2
88	Time-series prediction of shellfish farm closure: A comparison of alternatives. Information Processing in Agriculture, 2014, 1, 42-50.	4.1	2
89	A machine learning approach to find association between imaging features and XRF signatures of rocks in underground mines. , 2015, , .		2
90	Prediction With Uncertainty: A Novel Framework for Analyzing Sensor Data Streams. IEEE Sensors Journal, 2015, 15, 382-386.	4.7	2

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91	Investigating data-driven approaches to understand the interaction between water quality and physiological response of sentinel oysters in natural environment. Computers and Electronics in Agriculture, 2020, 175, 105545.	7.7	2
92	One Pass Outlier Detection for Streaming Categorical Data. Springer Proceedings in Complexity, 2013, , 35-42.	0.3	2
93	Bangla Music Genre Classification. , 2012, , 124-138.		2
94	A feature based approach for multiple temporal texture detection. , 2006, , .		1
95	A motion-based approach for segmenting dynamic textures. International Journal of Signal and Imaging Systems Engineering, 2009, 2, 88.	0.6	1
96	Applying context in appliance load identification. , 2013, , .		1
97	Channel transition invariant fast broadcasting scheme. , 2014, , .		1
98	A MULTIPLE CLASSIFIER SYSTEM FOR PREDICTING WITH MISSING SENSOR VALUES. Advances in Adaptive Data Analysis, 2014, 06, 1450009.	0.6	1
99	Machine Learning Techniques in Handwriting Recognition. , 2012, , 12-29.		1
100	Periodicity estimation of Dynamic Textures. International Journal of Information and Communication Technology, 2008, 1, 414.	0.1	0
101	Location finding using computer vision based approach. International Journal of Information and Communication Technology, 2008, 1, 390.	0.1	0
102	A modified 2-D logarithmic search technique for video coding with reduced search points. , 2009, , .		0
103	Behavior Classification of Dairy Cows Fitted with GPS Collars. Lecture Notes in Computer Science, 2017, , 15-25.	1.3	0
104	Thermal Stratification Prediction at Lake Trevallyn. Lecture Notes in Computer Science, 2017, , 51-55.	1.3	0