

Ashfaqur Rahman

List of Publications by Year in descending order

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104
papers

1,610
citations

430874

18
h-index

377865

34
g-index

105
all docs

105
docs citations

105
times ranked

1477
citing authors

#	ARTICLE	IF	CITATIONS
1	Robotic Edge Resource Allocation for Agricultural Cyber-Physical System. IEEE Transactions on Network Science and Engineering, 2022, 9, 3979-3990.	6.4	8
2	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
3	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
4	An integrated framework of sensing, machine learning, and augmented reality for aquaculture prawn farm management. Aquacultural Engineering, 2021, 95, 102192.	3.1	16
5	Malware detection in edge devices with fuzzy oversampling and dynamic class weighting. Applied Soft Computing Journal, 2021, 112, 107783.	7.2	11
6	Dissolved oxygen prediction in prawn ponds from a group of one step predictors. Information Processing in Agriculture, 2020, 7, 307-317.	4.1	19
7	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
8	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
9	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
10	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
11	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
12	Energy-efficient optimal task offloading in cloud networked multi-robot systems. Computer Networks, 2019, 160, 11-32.	5.1	22
13	Multi-objective resource allocation for Edge Cloud based robotic workflow in smart factory. Future Generation Computer Systems, 2019, 97, 119-130.	7.5	82
14	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
15	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
16	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
17	Cattle behaviour classification from collar, halter, and ear tag sensors. Information Processing in Agriculture, 2018, 5, 124-133.	4.1	72
18	Prediction of Dissolved Oxygen from pH and Water Temperature in Aquaculture Prawn Ponds. , 2018, , .		10

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19	Energy-Delay Co-optimization of Resource Allocation for Robotic Services in Cloudlet Infrastructure. Lecture Notes in Computer Science, 2018, , 295-303.	1.3	11
20	State Space Models for Forecasting Water Quality Variables. , 2018, , .		18
21	Comparison and Sensitivity Analysis of Methods for Solar PV Power Prediction. Lecture Notes in Computer Science, 2018, , 333-344.	1.3	3
22	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
23	HazeEst: Machine Learning Based Metropolitan Air Pollution Estimation From Fixed and Mobile Sensors. IEEE Sensors Journal, 2017, 17, 3517-3525.	4.7	66
24	Behavior Classification of Dairy Cows Fitted with GPS Collars. Lecture Notes in Computer Science, 2017, , 15-25.	1.3	0
25	Wind Power Prediction Using Cluster Based Ensemble Regression. International Journal of Computational Intelligence and Applications, 2017, 16, 1750026.	0.8	13
26	Autoencoder for wind power prediction. Renewables: Wind, Water, and Solar, 2017, 4, .	3.7	12
27	Motion and Connectivity Aware Offloading in Cloud Robotics via Genetic Algorithm. , 2017, , .		21
28	Thermal Stratification Prediction at Lake Trevallyn. Lecture Notes in Computer Science, 2017, , 51-55.	1.3	0
29	Cloud-Enhanced Robotic System for Smart City Crowd Control. Journal of Sensor and Actuator Networks, 2016, 5, 20.	3.9	19
30	Recurrent Neural Networks for One Day Ahead Prediction of Stream Flow. , 2016, , .		8
31	A Cloud Robotics Framework of Optimal Task Offloading for Smart City Applications. , 2016, , .		25
32	Convolutional Neural Network for Time Series Cattle Behaviour Classification. , 2016, , .		13
33	SVR based dense air pollution estimation model using static and wireless sensor network. , 2016, , .		9
34	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
35	A comparison of autoencoder and statistical features for cattle behaviour classification. , 2016, , .		12
36	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

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37	Detecting heat events in dairy cows using accelerometers and unsupervised learning. Computers and Electronics in Agriculture, 2016, 128, 20-26.	7.7	79
38	Design and Evaluation of a Metropolitan Air Pollution Sensing System. IEEE Sensors Journal, 2016, 16, 1448-1459.	4.7	56
39	A study of sensor derived features in cattle behaviour classification models. , 2015, , .		12
40	An Algorithm for the Automatic Analysis of Signals From an Oyster Heart Rate Sensor. IEEE Sensors Journal, 2015, 15, 4480-4487.	4.7	10
41	A machine learning approach to find association between imaging features and XRF signatures of rocks in underground mines. , 2015, , .		2
42	Heat event detection in dairy cows with collar sensors: An unsupervised machine learning approach. , 2015, , .		9
43	Allele frequency calibration for SNP based genotyping of DNA pools: A regression based local-global error fusion method. Computers in Biology and Medicine, 2015, 61, 48-55.	7.0	3
44	Machine learning approach for pooled DNA sample calibration. BMC Bioinformatics, 2015, 16, 214.	2.6	3
45	Prediction With Uncertainty: A Novel Framework for Analyzing Sensor Data Streams. IEEE Sensors Journal, 2015, 15, 382-386.	4.7	2
46	Shellfish farm closure prediction and cause identification using machine learning methods. Computers and Electronics in Agriculture, 2015, 110, 241-248.	7.7	5
47	Distributed Feature Selection with Big Sensor Data. , 2014, , .		2
48	Air Pollution Exposure Estimation and Finding Association with Human Activity using Wearable Sensor Network. , 2014, , .		15
49	Channel transition invariant fast broadcasting scheme. , 2014, , .		1
50	A time series ensemble method to predict wind power. , 2014, , .		2
51	Identification of mature grape bunches using image processing and computational intelligence methods. , 2014, , .		10
52	A neural network and SOM based approach to analyse periodic signals: Application to Oyster heart-rate data. , 2014, , .		3
53	Personalising pollution exposure estimates using wearable activity sensors. , 2014, , .		14
54	A hierarchical learning approach to calibrate allele frequencies for SNP based genotyping of DNA pools. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
55	An investigation of cow feeding behavior using motion sensors. , 2014, , .		14
56	A MULTIPLE CLASSIFIER SYSTEM FOR PREDICTING WITH MISSING SENSOR VALUES. Advances in Adaptive Data Analysis, 2014, 06, 1450009.	0.6	1
57	Predicting shellfish farm closures using time series classification for aquaculture decision support. Computers and Electronics in Agriculture, 2014, 102, 85-97.	7.7	14
58	Improving air pollution forecast with ubiquitous mobile sensor network. , 2014, , .		3
59	A Novel Machine Learning Approach Toward Quality Assessment of Sensor Data. IEEE Sensors Journal, 2014, 14, 1035-1047.	4.7	24
60	Ensemble aggregation methods for relocating models of rare events. Engineering Applications of Artificial Intelligence, 2014, 34, 58-65.	8.1	8
61	Time-series prediction of shellfish farm closure: A comparison of alternatives. Information Processing in Agriculture, 2014, 1, 42-50.	4.1	2
62	Multiple classifier system for automated quality assessment of marine sensor data. , 2013, , .		7
63	Applying context in appliance load identification. , 2013, , .		1
64	Energy disaggregation using ensemble of classifiers. , 2013, , .		2
65	Spatial-temporal prediction of algal bloom. , 2013, , .		8
66	Cluster-based ensemble of classifiers. Expert Systems, 2013, 30, 270-282.	4.5	21
67	Effect of ensemble classifier composition on offline cursive character recognition. Information Processing and Management, 2013, 49, 852-864.	8.6	26
68	Ensemble classifier generation using non-uniform layered clustering and Genetic Algorithm. Knowledge-Based Systems, 2013, 43, 30-42.	7.1	51
69	Cluster oriented ensemble classifiers using multi-objective evolutionary algorithm. , 2013, , .		5
70	Exploring mineral domains with genetic algorithm. , 2013, , .		2
71	Impute vs. Ignore: Missing values for prediction. , 2013, , .		6
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	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
74	Dealing with missing sensor values in predicting shellfish farm closure. , 2013, , .		6
75	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
76	Ensemble Feature Ranking for Shellfish Farm Closure Cause Identification. , 2013, , .		8
77	Similarity Weighted Ensembles for Relocating Models of Rare Events. Lecture Notes in Computer Science, 2013, , 25-36.	1.3	7
78	One Pass Outlier Detection for Streaming Categorical Data. Springer Proceedings in Complexity, 2013, , 35-42.	0.3	2
79	On detecting and predicting harmful algal blooms in coastal information systems. , 2012, , .		5
80	An hierarchical approach towards road image segmentation. , 2012, , .		10
81	Influence of unstable patterns in layered cluster oriented ensemble classifier. , 2012, , .		2
82	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
83	Predicting Shellfish Farm Closures with Class Balancing Methods. Lecture Notes in Computer Science, 2012, , 39-48.	1.3	12
84	Occlusion Handling in Object Detection. , 2012, , 61-74.		4
85	Machine Learning Techniques in Handwriting Recognition. , 2012, , 12-29.		1
86	Bangla Music Genre Classification. , 2012, , 124-138.		2
87	Ensemble classifier composition: Impact on feature based offline cursive character recognition. , 2011, , .		2
88	Novel Layered Clustering-Based Approach for Generating Ensemble of Classifiers. IEEE Transactions on Neural Networks, 2011, 22, 781-792.	4.2	77
89	A novel ensemble classifier approach using weak classifier learning on overlapping clusters. , 2010, , .		15
90	Non-uniform Layered Clustering for Ensemble Classifier Generation and Optimality. Lecture Notes in Computer Science, 2010, , 551-558.	1.3	10

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91	A modified 2-D logarithmic search technique for video coding with reduced search points. , 2009, , .		0
92	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
93	Feature Weighting and Retrieval Methods for Dynamic Texture Motion Features. International Journal of Computational Intelligence Systems, 2009, 2, 27-38.	2.7	5
94	A motion-based approach for segmenting dynamic textures. International Journal of Signal and Imaging Systems Engineering, 2009, 2, 88.	0.6	1
95	An Image Based Approach to Compute Object Distance. International Journal of Computational Intelligence Systems, 2008, 1, 304-312.	2.7	18
96	Periodicity estimation of Dynamic Textures. International Journal of Information and Communication Technology, 2008, 1, 414.	0.1	0
97	Location finding using computer vision based approach. International Journal of Information and Communication Technology, 2008, 1, 390.	0.1	0
98	Temporal Texture Characterization: A Review. Studies in Computational Intelligence, 2008, , 291-316.	0.9	5
99	An Image Based Approach to Compute Object Distance. International Journal of Computational Intelligence Systems, 2008, 1, 304.	2.7	6
100	Multiple temporal texture detection using feature space mapping. , 2007, , .		4
101	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
102	Segmentation of dynamic textures. , 2007, , .		4
103	A feature based approach for multiple temporal texture detection. , 2006, , .		1
104	A Motion-Based Approach for Temporal Texture Synthesis. , 2005, , .		3