

Abdulhamit Subasi

List of Publications by Year in descending order

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Version: 2024-02-01

153
papers

10,161
citations

61984

43
h-index

38395

95
g-index

156
all docs

156
docs citations

156
times ranked

7663
citing authors

#	ARTICLE	IF	CITATIONS
1	EEG signal classification using PCA, ICA, LDA and support vector machines. Expert Systems With Applications, 2010, 37, 8659-8666.	7.6	1,048
2	EEG signal classification using wavelet feature extraction and a mixture of expert model. Expert Systems With Applications, 2007, 32, 1084-1093.	7.6	956
3	Classification of EEG signals using neural network and logistic regression. Computer Methods and Programs in Biomedicine, 2005, 78, 87-99.	4.7	453
4	Classification of EMG signals using PSO optimized SVM for diagnosis of neuromuscular disorders. Computers in Biology and Medicine, 2013, 43, 576-586.	7.0	402
5	Comparison of signal decomposition methods in classification of EEG signals for motor-imagery BCI system. Biomedical Signal Processing and Control, 2017, 31, 398-406.	5.7	325
6	Performance evaluation of empirical mode decomposition, discrete wavelet transform, and wavelet packed decomposition for automated epileptic seizure detection and prediction. Biomedical Signal Processing and Control, 2018, 39, 94-102.	5.7	304
7	Congestive heart failure detection using random forest classifier. Computer Methods and Programs in Biomedicine, 2016, 130, 54-64.	4.7	253
8	Automatic recognition of alertness level from EEG by using neural network and wavelet coefficients. Expert Systems With Applications, 2005, 28, 701-711.	7.6	233
9	Comparison of decision tree algorithms for EMG signal classification using DWT. Biomedical Signal Processing and Control, 2015, 18, 138-144.	5.7	227
10	Breast cancer diagnosis using GA feature selection and Rotation Forest. Neural Computing and Applications, 2017, 28, 753-763.	5.6	222
11	Ensemble SVM Method for Automatic Sleep Stage Classification. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1258-1265.	4.7	207
12	Classification of EMG signals using wavelet neural network. Journal of Neuroscience Methods, 2006, 156, 360-367.	2.5	188
13	A decision support system for automated identification of sleep stages from single-channel EEG signals. Knowledge-Based Systems, 2017, 128, 115-124.	7.1	183
14	Epileptic seizure detection using hybrid machine learning methods. Neural Computing and Applications, 2019, 31, 317-325.	5.6	179
15	Classification of EMG signals using combined features and soft computing techniques. Applied Soft Computing Journal, 2012, 12, 2188-2198.	7.2	171
16	Application of adaptive neuro-fuzzy inference system for epileptic seizure detection using wavelet feature extraction. Computers in Biology and Medicine, 2007, 37, 227-244.	7.0	166
17	Automatic identification of epileptic seizures from EEG signals using linear programming boosting. Computer Methods and Programs in Biomedicine, 2016, 136, 65-77.	4.7	161
18	Traffic accident detection using random forest classifier. , 2018, , .		154

#	ARTICLE	IF	CITATIONS
19	Epileptic seizure detection using dynamic wavelet network. Expert Systems With Applications, 2005, 29, 343-355.	7.6	153
20	Automatic detection of epileptic seizure using dynamic fuzzy neural networks. Expert Systems With Applications, 2006, 31, 320-328.	7.6	145
21	Wavelet neural network classification of EEG signals by using AR model with MLE preprocessing. Neural Networks, 2005, 18, 985-997.	5.9	139
22	An effective combining classifier approach using tree algorithms for network intrusion detection. Neural Computing and Applications, 2017, 28, 1051-1058.	5.6	139
23	Automatic recognition of alertness level by using wavelet transform and artificial neural network. Journal of Neuroscience Methods, 2004, 139, 231-240.	2.5	136
24	Automatic seizure detection in EEG using logistic regression and artificial neural network. Journal of Neuroscience Methods, 2005, 148, 167-176.	2.5	136
25	A Multitier Deep Learning Model for Arrhythmia Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	136
26	Medical Decision Support System for Diagnosis of Heart Arrhythmia using DWT and Random Forests Classifier. Journal of Medical Systems, 2016, 40, 108.	3.6	135
27	Epilepsy seizure detection using complete ensemble empirical mode decomposition with adaptive noise. Knowledge-Based Systems, 2020, 191, 105333.	7.1	109
28	Surface EMG signal classification using ternary pattern and discrete wavelet transform based feature extraction for hand movement recognition. Biomedical Signal Processing and Control, 2020, 58, 101872.	5.7	104
29	Effect of Multiscale PCA De-noising in ECG Beat Classification for Diagnosis of Cardiovascular Diseases. Circuits, Systems, and Signal Processing, 2015, 34, 513-533.	2.0	95
30	IoT based mobile healthcare system for human activity recognition. , 2018, , .		93
31	Effect of multiscale PCA de-noising on EMG signal classification for diagnosis of neuromuscular disorders. Journal of Medical Systems, 2014, 38, 31.	3.6	86
32	Medical decision support system for diagnosis of neuromuscular disorders using DWT and fuzzy support vector machines. Computers in Biology and Medicine, 2012, 42, 806-815.	7.0	85
33	Classification of the cardiotocogram data for anticipation of fetal risks using machine learning techniques. Applied Soft Computing Journal, 2015, 33, 231-238.	7.2	84
34	EEG-based emotion recognition using tunable Q wavelet transform and rotation forest ensemble classifier. Biomedical Signal Processing and Control, 2021, 68, 102648.	5.7	82
35	Muscle Fatigue Detection in EMG Using Time-Frequency Methods, ICA and Neural Networks. Journal of Medical Systems, 2010, 34, 777-785.	3.6	81
36	Diagnosis of Chronic Kidney Disease by Using Random Forest. IFMBE Proceedings, 2017, , 589-594.	0.3	72

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37	Detection of epileptic seizures on EEG signals using ANFIS classifier, autoencoders and fuzzy entropies. <i>Biomedical Signal Processing and Control</i> , 2022, 73, 103417.	5.7	71
38	A new fractal pattern feature generation function based emotion recognition method using EEG. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110671.	5.1	70
39	Human activity recognition using machine learning methods in a smart healthcare environment. , 2020, , 123-144.		65
40	EEG-based driving fatigue detection using multilevel feature extraction and iterative hybrid feature selection. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102591.	5.7	60
41	Comparison of Bagging and Boosting Ensemble Machine Learning Methods for Automated EMG Signal Classification. <i>BioMed Research International</i> , 2019, 2019, 1-13.	1.9	58
42	Sensor Based Human Activity Recognition Using Adaboost Ensemble Classifier. <i>Procedia Computer Science</i> , 2018, 140, 104-111.	2.0	57
43	Neural Networks with Periodogram and Autoregressive Spectral Analysis Methods in Detection of Epileptic Seizure. <i>Journal of Medical Systems</i> , 2004, 28, 511-522.	3.6	54
44	A novel Covid-19 and pneumonia classification method based on F-transform. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 210, 104256.	3.5	53
45	Intelligent phishing website detection using random forest classifier. , 2017, , .		52
46	Comparison of subspace-based methods with AR parametric methods in epileptic seizure detection. <i>Computers in Biology and Medicine</i> , 2006, 36, 195-208.	7.0	49
47	Automatic detection of abnormal EEG signals using wavelet feature extraction and gradient boosting decision tree. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102957.	5.7	49
48	The Effect of Multiscale PCA De-noising in Epileptic Seizure Detection. <i>Journal of Medical Systems</i> , 2014, 38, 131.	3.6	47
49	Comparison of Adaboost with MultiBoosting for Phishing Website Detection. <i>Procedia Computer Science</i> , 2020, 168, 272-278.	2.0	43
50	Classification of the Cardiocogram Data for Anticipation of Fetal Risks using Bagging Ensemble Classifier. <i>Procedia Computer Science</i> , 2020, 168, 34-39.	2.0	43
51	A decision support system for diagnosis of neuromuscular disorders using DWT and evolutionary support vector machines. <i>Signal, Image and Video Processing</i> , 2015, 9, 399-408.	2.7	41
52	Comparison of Ensemble Machine Learning Methods for Automated Classification of Focal and Non-Focal Epileptic EEG Signals. <i>Mathematics</i> , 2020, 8, 1481.	2.2	40
53	Cloud-based ECG monitoring using event-driven ECG acquisition and machine learning techniques. <i>Physical and Engineering Sciences in Medicine</i> , 2020, 43, 623-634.	2.4	40
54	A Decision Support System for Telemedicine Through the Mobile Telecommunications Platform. <i>Journal of Medical Systems</i> , 2008, 32, 31-35.	3.6	39

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55	Comparison of EMD, DWT and WPD for the localization of epileptogenic foci using Random Forest classifier. Measurement: Journal of the International Measurement Confederation, 2019, 146, 846-855.	5.0	38
56	An Automated Daily Sports Activities and Gender Recognition Method Based on Novel Multikernel Local Diamond Pattern Using Sensor Signals. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9441-9448.	4.7	38
57	An automated COVID-19 detection based on fused dynamic exemplar pyramid feature extraction and hybrid feature selection using deep learning. Computers in Biology and Medicine, 2021, 132, 104356.	7.0	38
58	Automatic recognition of vigilance state by using a wavelet-based artificial neural network. Neural Computing and Applications, 2005, 14, 45-55.	5.6	37
59	Neural Network Classification of EEG Signals by Using AR with MLE Preprocessing for Epileptic Seizure Detection. Mathematical and Computational Applications, 2005, 10, 57-70.	1.3	37
60	Automated EMG Signal Classification for Diagnosis of Neuromuscular Disorders Using DWT and Bagging. Procedia Computer Science, 2018, 140, 230-237.	2.0	37
61	LEDPatNet19: Automated Emotion Recognition Model based on Nonlinear LED Pattern Feature Extraction Function using EEG Signals. Cognitive Neurodynamics, 2022, 16, 779-790.	4.0	36
62	Effect of photic stimulation for migraine detection using random forest and discrete wavelet transform. Biomedical Signal Processing and Control, 2019, 49, 231-239.	5.7	35
63	Detection of generated and measured transient power quality events using Teager Energy Operator. Energy Conversion and Management, 2011, 52, 1959-1967.	9.2	34
64	A dynamic center and multi threshold point based stable feature extraction network for driver fatigue detection utilizing EEG signals. Cognitive Neurodynamics, 2021, 15, 223-237.	4.0	34
65	Application of lifting based wavelet transforms to characterize power quality events. Energy Conversion and Management, 2007, 48, 112-123.	9.2	31
66	Comparison of Random Subspace and Voting Ensemble Machine Learning Methods for Face Recognition. Symmetry, 2018, 10, 651.	2.2	31
67	A novel ensemble local graph structure based feature extraction network for EEG signal analysis. Biomedical Signal Processing and Control, 2020, 61, 102006.	5.7	31
68	Analysis of EEG Signals Under Flash Stimulation for Migraine and Epileptic Patients. Journal of Medical Systems, 2011, 35, 437-443.	3.6	29
69	Credit scoring for a microcredit data set using the synthetic minority oversampling technique and ensemble classifiers. Expert Systems, 2019, 36, e12363.	4.5	29
70	Tourism demand modelling and forecasting using data mining techniques in multivariate time series: a case study in Turkey. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 3388-3404.	1.4	28
71	A comparison of time series and machine learning models for inflation forecasting: empirical evidence from the USA. Neural Computing and Applications, 2018, 30, 1519-1527.	5.6	27
72	An Overview of Machine Learning-Based Techniques for Solving Optimization Problems in Communications and Signal Processing. IEEE Access, 2021, 9, 74908-74938.	4.2	27

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73	A novel automated tower graph based ECG signal classification method with hexadecimal local adaptive binary pattern and deep learning. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 711-725.	4.9	27
74	Artificial Intelligence-Based Breast Cancer Diagnosis Using Ultrasound Images and Grid-Based Deep Feature Generator. <i>International Journal of General Medicine</i> , 2022, Volume 15, 2271-2282.	1.8	27
75	EEG-Based Driver Fatigue Detection Using FAWT and Multiboosting Approaches. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 6602-6609.	11.3	27
76	Surface EMG signal classification using TQWT, Bagging and Boosting for hand movement recognition. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, 13, 3539-3554.	4.9	25
77	Smartphone-Based Human Activity Recognition Using Bagging and Boosting. <i>Procedia Computer Science</i> , 2019, 163, 54-61.	2.0	24
78	Prediction of early heat of hydration of plain and blended cements using neuro-fuzzy modelling techniques. <i>Expert Systems With Applications</i> , 2009, 36, 4940-4950.	7.6	23
79	Cloud computing-based parallel genetic algorithm for gene selection in cancer classification. <i>Neural Computing and Applications</i> , 2018, 30, 1601-1610.	5.6	23
80	A novel Discrete Wavelet-Concatenated Mesh Tree and ternary chess pattern based ECG signal recognition method. <i>Biomedical Signal Processing and Control</i> , 2022, 72, 103331.	5.7	21
81	Stock Market Prediction Using Machine Learning. <i>Procedia Computer Science</i> , 2021, 194, 173-179.	2.0	21
82	Application of Classical and Model-Based Spectral Methods to Describe the State of Alertness in EEG. <i>Journal of Medical Systems</i> , 2005, 29, 473-486.	3.6	20
83	Selection of optimal AR spectral estimation method for EEG signals using Cramerâ€Rao bound. <i>Computers in Biology and Medicine</i> , 2007, 37, 183-194.	7.0	20
84	Surface EMG Signal Classification by Using WPD and Ensemble Tree Classifiers. <i>IFMBE Proceedings</i> , 2017, , 475-481.	0.3	20
85	An Event-Driven Multiple Objects Surveillance System. <i>International Journal of Electrical and Computer Engineering Systems</i> , 2018, 9, 35-44.	0.6	20
86	Comparison of AR parametric methods with subspace-based methods for EMG signal classification using stand-alone and merged neural network models. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016, 24, 1547-1559.	1.4	19
87	Normalized Neural Networks for Breast Cancer Classification. <i>IFMBE Proceedings</i> , 2020, , 519-524.	0.3	18
88	COMPLEXITY AND INFORMATION-BASED ANALYSIS OF THE VARIATIONS OF THE SARS-COV-2 GENOME IN THE UNITED STATES OF AMERICA (USA). <i>Fractals</i> , 2020, 28, 2150023.	3.7	18
89	Diagnosis of Neuromuscular Disorders Using DT-CWT and Rotation Forest Ensemble Classifier. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 1940-1947.	4.7	17
90	<i>Biomedical Signals</i> . , 2019, , 27-87.		16

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91	Automatic Detection of Alzheimer Disease Based on Histogram and Random Forest. IFMBE Proceedings, 2020, , 91-96.	0.3	16
92	Permeability prediction of petroleum reservoirs using stochastic gradient boosting regression. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 3555-3564.	4.9	16
93	Analysis of Repetitive Flash Stimulation Frequencies and Record Periods to Detect Migraine Using Artificial Neural Network. Journal of Medical Systems, 2012, 36, 925-931.	3.6	15
94	An Adaptive Rate ECG Acquisition and Analysis for Efficient Diagnosis of the Cardiovascular Diseases. , 2018, , .		14
95	Feature Extraction and Dimension Reduction. , 2019, , 193-275.		14
96	Surface EMG based classification of basic hand movements using rotation forest. , 2018, , .		13
97	Analysis of brainâ€facial muscle connection in the static fractal visual stimulation. International Journal of Imaging Systems and Technology, 2021, 31, 548-554.	4.1	13
98	Novel finger movement classification method based on multi-centered binary pattern using surface electromyogram signals. Biomedical Signal Processing and Control, 2022, 71, 103153.	5.7	13
99	The Ensemble Machine Learning-Based Classification of Motor Imagery Tasks in Brain-Computer Interface. Journal of Healthcare Engineering, 2021, 2021, 1-12.	1.9	13
100	Comparison of machine learning methods for two class motor imagery tasks using EEG in brain-computer interface. , 2018, , .		12
101	Real-Time Implementation of a Multidomain Feature Fusion Model Using Inherently Available Large Sensor Data. IEEE Transactions on Industrial Informatics, 2019, 15, 6231-6239.	11.3	12
102	Use of artificial intelligence in Alzheimerâ€™s disease detection. , 2020, , 257-278.		12
103	Effective epileptic seizure detection based on the event-driven processing and machine learning for mobile healthcare. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 3619-3631.	4.9	12
104	Comparison of Bagging and Boosting Ensemble Machine Learning Methods for Face Recognition. Procedia Computer Science, 2021, 194, 202-209.	2.0	12
105	Comparison of clustering techniques for traffic accident detection. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 2124-2137.	1.4	11
106	Intrusion Detection in Smart Grid Using Data Mining Techniques. , 2018, , .		11
107	Data preprocessing. , 2020, , 27-89.		10
108	An event driven surveillance system. , 2016, , .		9

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109	Comparison of Decision Tree Algorithms for Spam E-mail Filtering. , 2018, , .		9
110	A novel spiral pattern and 2D M4 pooling based environmental sound classification method. Applied Acoustics, 2020, 170, 107508.	3.3	9
111	Intrusion Detection in Smart Healthcare Using Bagging Ensemble Classifier. IFMBE Proceedings, 2021, , 164-171.	0.3	9
112	The Impact of Mspca Signal De-Noising In Real-Time Wireless Brain Computer Interface System. Southeast Europe Journal of Soft Computing, 2015, 4, .	0.4	9
113	Effect of Flash Stimulation for Migraine Detection Using Decision Tree Classifiers. Procedia Computer Science, 2018, 140, 223-229.	2.0	8
114	Appliance Identification Based on Smart Meter Data and Event-Driven Processing in the 5G Framework. Procedia Computer Science, 2021, 182, 103-108.	2.0	8
115	Cloud-based mobile platform for EEG signal analysis. , 2016, , .		7
116	Power Quality Event Detection Using FAWT and Bagging Ensemble Classifier. , 2019, , .		7
117	Prediction of default payment of credit card clients using Data Mining Techniques. , 2019, , .		7
118	Cloud-based health monitoring framework using smart sensors and smartphone. , 2020, , 217-243.		7
119	A comparison of PCA, ICA and LDA in EEG signal classification using SVM. , 2008, , .		6
120	Efficient Epileptic Seizure Detection Based on the Event Driven Processing. Procedia Computer Science, 2019, 163, 30-34.	2.0	6
121	EMG Signal Classification Using Discrete Wavelet Transform and Rotation Forest. IFMBE Proceedings, 2020, , 29-35.	0.3	6
122	A low energy APRS-IS client-server infrastructure implementation using Raspberry Pi. , 2014, , .		5
123	Svxlink VOIP implementation using raspberry Pi in education and disaster relief situations. , 2014, , .		5
124	Wavelet and Teager Energy Operator (TEO) for Heart Sound Processing and Identification. IFMBE Proceedings, 2017, , 495-502.	0.3	5
125	sEMG Signal Classification Using DWT and Bagging for Basic Hand Movements. , 2018, , .		5
126	Electromyogram-controlled assistive devices. , 2019, , 285-311.		5

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127	Robust multi bit and high quality audio watermarking using pseudo-random sequences. Computers and Electrical Engineering, 2005, 31, 525-536.	4.8	4
128	Berthil cepstrum: a novel vibration analysis method based on marginal Hilbert spectrum applied to artificial motor aging. Electrical Engineering, 2018, 100, 1039-1046.	2.0	4
129	Tourism demand forecasting using stacking ensemble model with adaptive fuzzy combiner. Soft Computing, 2022, 26, 3455-3467.	3.6	4
130	Predicting Turbulent Buoyant Jet Using Machine Learning Techniques. , 2020, , .		4
131	Classification of EEG for Epilepsy Diagnosis in Wavelet Domain Using Artificial Neural Network and Multi Linear Regression. , 0, , .		3
132	Electroencephalogram-controlled assistive devices. , 2019, , 261-284.		3
133	Other classification examples. , 2020, , 323-390.		3
134	Disease Prediction Using Artificial Intelligence: A Case Study on Epileptic Seizure Prediction. Studies in Fuzziness and Soft Computing, 2021, , 289-314.	0.8	3
135	Forecasting a Small-Scale Hydrogen Leakage in Air using Machine Learning Techniques. , 2020, , .		3
136	Comparison of artificial neural network and support vector machine classification methods in diagnosis of migraine by using EEG. , 2010, , .		2
137	Developing a Generalized Scaling-Law for Oil Recovery Using Machine Learning Techniques. Procedia Computer Science, 2019, 163, 237-247.	2.0	2
138	Predicted Oil Recovery Scaling-Law Using Stochastic Gradient Boosting Regression Model. Computers, Materials and Continua, 2021, 68, 2349-2362.	1.9	2
139	Classification examples for healthcare. , 2020, , 203-322.		2
140	Electromyography Signal Classification Using Deep Learning. , 2021, , .		2
141	Hardware implementation of auto-mutual information function for condition monitoring. Computers and Electrical Engineering, 2018, 66, 30-39.	4.8	1
142	Biomedical Signal Processing Techniques. , 2019, , 89-192.		1
143	Adaptive Rate EEG Signal Processing for Epileptic Seizure Detection. , 2019, , .		1
144	Artificial Intelligence in Brain Computer Interface. , 2022, , .		1

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145	Performance evaluation of delta switching networks. , 0, , .		0
146	Performance improvement of dynamic buffered ATM switch. Computers and Electrical Engineering, 2005, 31, 152-165.	4.8	0
147	Comparison of MUSIC and AR methods in diagnosis of epilepsy. , 0, , .		0
148	Investigation of Wavelet Transform Performance in Classification of Vigilance States. , 0, , .		0
149	Comparison of sub-space based MUSIC and AR BURG methods in diagnosis of migraine by support vector machines. , 2010, , .		0
150	An Event Driven Attendance Tracker. , 2018, , .		0
151	Intrusion Detection in Smart Grid Using Bagging Ensemble Classifiers. , 2019, , .		0
152	Regression examples. , 2020, , 391-463.		0
153	Diagnosis of Neuromuscular Disorders Using TQWT and Random Subspace Ensemble Classifier. IFMBE Proceedings, 2021, , 10-19.	0.3	0