Abdulkadir Sengur

List of Publications by Year
in descending order

163 papers	7,260 citations	43973 48 h-index	64668 79 g-index
163 all docs	163 docs citations	163 times ranked	5360 citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning approaches for COVID-19 detection based on chest X-ray images. Expert Systems With Applications, 2021, 164, 114054.	4.4	490
2	Effective diagnosis of heart disease through neural networks ensembles. Expert Systems With Applications, 2009, 36, 7675-7680.	4.4	449
3	Artificial neural network and wavelet neural network approaches for modelling of a solar air heater. Expert Systems With Applications, 2009, 36, 11240-11248.	4.4	269
4	Performance prediction of a ground-coupled heat pump system using artificial neural networks. Expert Systems With Applications, 2008, 35, 1940-1948.	4.4	221
5	Artificial neural networks and adaptive neuro-fuzzy assessments for ground-coupled heat pump system. Energy and Buildings, 2008, 40, 1074-1083.	3.1	204
6	Transfer learning based histopathologic image classification for breast cancer detection. Health Information Science and Systems, 2018, 6, 18.	3.4	201
7	Modelling of a new solar air heater through least-squares support vector machines. Expert Systems With Applications, 2009, 36, 10673-10682.	4.4	176
8	Forecasting of a ground-coupled heat pump performance using neural networks with statistical data weighting pre-processing. International Journal of Thermal Sciences, 2008, 47, 431-441.	2.6	173
9	Modeling a ground-coupled heat pump system by a support vector machine. Renewable Energy, 2008, 33, 1814-1823.	4.3	140
10	Convolutional Neural Network Based Approach Towards Motor Imagery Tasks EEG Signals Classification. IEEE Sensors Journal, 2019, 19, 4494-4500.	2.4	139
11	Modelling a ground-coupled heat pump system using adaptive neuro-fuzzy inference systems. International Journal of Refrigeration, 2008, 31, 65-74.	1.8	132
12	Predicting performance of a ground-source heat pump system using fuzzy weighted pre-processing-based ANFIS. Building and Environment, 2008, 43, 2178-2187.	3.0	123
13	NCM: Neutrosophic c-means clustering algorithm. Pattern Recognition, 2015, 48, 2710-2724.	5.1	122
14	Color texture image segmentation based on neutrosophic set and wavelet transformation. Computer Vision and Image Understanding, 2011, 115, 1134-1144.	3.0	117
15	Computer-aided diagnosis system combining FCN and Bi-LSTM model for efficient breast cancer detection from histopathological images. Applied Soft Computing Journal, 2019, 85, 105765.	4.1	105
16	Convolutional neural networks based efficient approach for classification of lung diseases. Health Information Science and Systems, 2020, 8, 4.	3.4	103
17	Wavelet transform and adaptive neuro-fuzzy inference system for color texture classification. Expert Systems With Applications, 2008, 34, 2120-2128.	4.4	94
18	An Effective Hybrid Model for EEG-Based Drowsiness Detection. IEEE Sensors Journal, 2019, 19, 7624-7631.	2.4	94

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19	Evaluation of ensemble methods for diagnosing of valvular heart disease. Expert Systems With Applications, 2010, 37, 5110-5115.	4.4	90
20	Multi-model LSTM-based convolutional neural networks for detection of apple diseases and pests. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 3335-3345.	3.3	88
21	Cascaded deep convolutional encoder-decoder neural networks for efficient liver tumor segmentation. Medical Hypotheses, 2020, 134, 109431.	0.8	87
22	Classification of Lung Sounds With CNN Model Using Parallel Pooling Structure. IEEE Access, 2020, 8, 105376-105383.	2.6	82
23	A New Deep CNN Model for Environmental Sound Classification. IEEE Access, 2020, 8, 66529-66537.	2.6	82
24	Wavelet packet neural networks for texture classification. Expert Systems With Applications, 2007, 32, 527-533.	4.4	80
25	A novel image thresholding algorithm based on neutrosophic similarity score. Measurement: Journal of the International Measurement Confederation, 2014, 58, 175-186.	2.5	80
26	A New Framework for Automatic Detection of Patients With Mild Cognitive Impairment Using Resting-State EEG Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1966-1976.	2.7	80
27	An expert system based on principal component analysis, artificial immune system and fuzzy -NN for diagnosis of valvular heart diseases. Computers in Biology and Medicine, 2008, 38, 329-338.	3.9	78
28	A novel breast ultrasound image segmentation algorithm based on neutrosophic similarity score and level set. Computer Methods and Programs in Biomedicine, 2016, 123, 43-53.	2.6	75
29	A new pyramidal concatenated CNN approach for environmental sound classification. Applied Acoustics, 2020, 170, 107520.	1.7	75
30	Diagnosis of valvular heart disease through neural networks ensembles. Computer Methods and Programs in Biomedicine, 2009, 93, 185-191.	2.6	73
31	An expert system based on linear discriminant analysis and adaptive neuro-fuzzy inference system to diagnosis heart valve diseases. Expert Systems With Applications, 2008, 35, 214-222.	4.4	72
32	Features based on analytic IMF for classifying motor imagery EEG signals in BCI applications. Measurement: Journal of the International Measurement Confederation, 2018, 116, 68-76.	2.5	68
33	Efficient deep features selections and classification for flower species recognition. Measurement: Journal of the International Measurement Confederation, 2019, 137, 7-13.	2.5	68
34	Shape feature encoding via Fisher Vector for efficient fall detection in depth-videos. Applied Soft Computing Journal, 2015, 37, 1023-1028.	4.1	66
35	COV-ECGNET: COVID-19 detection using ECG trace images with deep convolutional neural network. Health Information Science and Systems, 2022, 10, 1.	3.4	66
36	A retinal vessel detection approach using convolution neural network with reinforcement sample learning strategy. Measurement: Journal of the International Measurement Confederation, 2018, 125, 586-591.	2.5	64

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37	Attention guided 3D CNN-LSTM model for accurate speech based emotion recognition. Applied Acoustics, 2021, 182, 108260.	1.7	63
38	A Novel Color Image Segmentation Approach Based on Neutrosophic Set and Modified Fuzzy c-Means. Circuits, Systems, and Signal Processing, 2013, 32, 1699-1723.	1.2	62
39	Classification of amyotrophic lateral sclerosis disease based on convolutional neural network and reinforcement sample learning algorithm. Health Information Science and Systems, 2017, 5, 9.	3.4	57
40	Exploring Hermite transformation in brain signal analysis for the detection of epileptic seizure. IET Science, Measurement and Technology, 2019, 13, 35-41.	0.9	57
41	A novel image segmentation algorithm based on neutrosophic similarity clustering. Applied Soft Computing Journal, 2014, 25, 391-398.	4.1	56
42	Feature extraction method for classification of alertness and drowsiness states EEG signals. Applied Acoustics, 2020, 163, 107224.	1.7	55
43	Exploring Deep Learning Features for Automatic Classification of Human Emotion Using EEG Rhythms. IEEE Sensors Journal, 2021, 21, 14923-14930.	2.4	55
44	A robust technique based on invariant moments â€" ANFIS for recognition of human parasite eggs in microscopic images. Expert Systems With Applications, 2008, 35, 728-738.	4.4	54
45	Multi-category EEG signal classification developing time-frequency texture features based Fisher Vector encoding method. Neurocomputing, 2016, 218, 251-258.	3.5	54
46	NS-k-NN: Neutrosophic Set-Based k-Nearest Neighbors Classifier. Symmetry, 2017, 9, 179.	1.1	54
47	Cascaded deep learning-based efficient approach for license plate detection and recognition. Expert Systems With Applications, 2020, 149, 113280.	4.4	53
48	Comparison of clustering algorithms for analog modulation classification. Expert Systems With Applications, 2006, 30, 642-649.	4.4	52
49	Multiclass least-squares support vector machines for analog modulation classification. Expert Systems With Applications, 2009, 36, 6681-6685.	4.4	48
50	Surface EMG signals and deep transfer learning-based physical action classification. Neural Computing and Applications, 2019, 31, 8455-8462.	3.2	48
51	Timeâ€"frequency texture descriptors of EEG signals for efficient detection of epileptic seizure. Brain Informatics, 2016, 3, 101-108.	1.8	46
52	Towards the classification of heart sounds based on convolutional deep neural network. Health Information Science and Systems, 2019, 7, 16.	3.4	46
53	DCCMED-Net: Densely connected and concatenated multi Encoder-Decoder CNNs for retinal vessel extraction from fundus images. Medical Hypotheses, 2020, 134, 109426.	0.8	46
54	Efficient Airport Detection Using Line Segment Detector and Fisher Vector Representation. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1079-1083.	1.4	45

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55	Silhouette Orientation Volumes for Efficient Fall Detection in Depth Videos. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 756-763.	3.9	44
56	An effective color image segmentation approach using neutrosophic adaptive mean shift clustering. Measurement: Journal of the International Measurement Confederation, 2018, 119, 28-40.	2.5	44
57	A novel retinal vessel detection approach based on multiple deep convolution neural networks. Computer Methods and Programs in Biomedicine, 2018, 167, 43-48.	2.6	44
58	Automatic digital modulation classification using extreme learning machine with local binary pattern histogram features. Measurement: Journal of the International Measurement Confederation, 2019, 145, 214-225.	2.5	44
59	Emotion classification using flexible analytic wavelet transform for electroencephalogram signals. Health Information Science and Systems, 2018, 6, 12.	3.4	42
60	A novel image edge detection algorithm based on neutrosophic set. Computers and Electrical Engineering, 2014, 40, 3-25.	3.0	40
61	A novel microaneurysms detection approach based on convolutional neural networks with reinforcement sample learning algorithm. Health Information Science and Systems, 2017, 5, 14.	3.4	40
62	Investigation of complex modulus of base and SBS modified bitumen with artificial neural networks. Expert Systems With Applications, 2010, 37, 7775-7780.	4.4	37
63	A hybrid method based on time–frequency images for classification of alcohol and control EEG signals. Neural Computing and Applications, 2017, 28, 3717-3723.	3.2	37
64	A novel image segmentation approach based on neutrosophic c-means clustering and indeterminacy filtering. Neural Computing and Applications, 2017, 28, 3009-3019.	3.2	37
65	Prediction of intrapartum fetal hypoxia considering feature selection algorithms and machine learning models. Health Information Science and Systems, 2019, 7, 17.	3.4	36
66	Performance Comparison of Machine Learning Techniques on Diabetes Disease Detection. , 2019, , .		35
67	Denoising of weak ECG signals by using wavelet analysis and fuzzy thresholding. Network Modeling Analysis in Health Informatics and Bioinformatics, 2012, 1, 135-140.	1.2	34
68	NECM: Neutrosophic evidential c-means clustering algorithm. Neural Computing and Applications, 2015, 26, 561-571.	3.2	34
69	The investigation of multiresolution approaches for chest X-ray image based COVID-19 detection. Health Information Science and Systems, 2020, 8, 29.	3.4	34
70	A Retinal Vessel Detection Approach Based on Shearlet Transform and Indeterminacy Filtering on Fundus Images. Symmetry, 2017, 9, 235.	1.1	32
71	Computer-aided diagnosis of breast cancer using bi-dimensional empirical mode decomposition. Neural Computing and Applications, 2019, 31, 3307-3315.	3.2	32
72	GA-SELM: Greedy algorithms for sparse extreme learning machine. Measurement: Journal of the International Measurement Confederation, 2014, 55, 126-132.	2.5	31

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73	A hybrid method based on artificial immune system and fuzzy k-NN algorithm for diagnosis of heart valve diseases. Expert Systems With Applications, 2008, 35, 1011-1020.	4.4	30
74	Environmental sound classification using optimum allocation sampling based empirical mode decomposition. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122613.	1.2	30
75	KNCM: Kernel Neutrosophic c-Means Clustering. Applied Soft Computing Journal, 2017, 52, 714-724.	4.1	28
76	Support Vector Machine Ensembles for Intelligent Diagnosis of Valvular Heart Disease. Journal of Medical Systems, 2012, 36, 2649-2655.	2.2	27
77	An Advanced Analysis System for Identifying Alcoholic Brain State Through EEG Signals. International Journal of Automation and Computing, 2019, 16, 737-747.	4.5	27
78	Dental Caries Detection Using Score-Based Multi-Input Deep Convolutional Neural Network. IEEE Access, 2022, 10, 18320-18329.	2.6	27
79	Flexible Analytic Wavelet Transform Based Features for Physical Action Identification Using sEMG Signals. Irbm, 2020, 41, 18-22.	3.7	26
80	Efficient COVID-19 Segmentation from CT Slices Exploiting Semantic Segmentation with Integrated Attention Mechanism. Journal of Digital Imaging, 2021, 34, 263-272.	1.6	23
81	Deep learning based face liveness detection in videos. , 2017, , .		22
82	Accurate detection of autism using Douglas-Peucker algorithm, sparse coding based feature mapping and convolutional neural network techniques with EEG signals. Computers in Biology and Medicine, 2022, 143, 105311.	3.9	22
83	Neural network modeling of SBS modified bitumen produced with different methods. Fuel, 2013, 106, 265-270.	3.4	21
84	A novel demodulation system for base band digital modulation signals based on the deep long short-term memory model. Applied Acoustics, 2020, 166, 107346.	1.7	21
85	A survey on neutrosophic medical image segmentation. , 2019, , 145-165.		20
86	Modified neutrosophic approach to color image segmentation. Journal of Electronic Imaging, 2013, 22, 013005.	0.5	19
87	Deep learning model for estimating the mechanical properties of concrete containing silica fume exposed to high temperatures. Frontiers of Structural and Civil Engineering, 2020, 14, 1316-1330.	1.2	19
88	Investigation of complex modulus of base and EVA modified bitumen with Adaptive-Network-Based Fuzzy Inference System. Expert Systems With Applications, 2011, 38, 969-974.	4.4	18
89	Online modulation recognition of analog communication signals using neural network. Expert Systems With Applications, 2007, 33, 206-214.	4.4	17
90	Gender recognition from face images with deep learning. , 2017, , .		17

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91	A New Signal to Image Mapping Procedure and Convolutional Neural Networks for Efficient Schizophrenia Detection in EEG Recordings. IEEE Sensors Journal, 2022, 22, 7913-7919.	2.4	17
92	An optimum feature extraction method for texture classification. Expert Systems With Applications, 2009, 36, 6036-6043.	4.4	16
93	An effective color texture image segmentation algorithm based on hermite transform. Applied Soft Computing Journal, 2018, 67, 494-504.	4.1	16
94	Attention-based 3D CNN with residual connections for efficient ECG-based COVID-19 detection. Computers in Biology and Medicine, 2022, 143, 105335.	3.9	16
95	An Efficient Image Segmentation Algorithm Using Neutrosophic Graph Cut. Symmetry, 2017, 9, 185.	1.1	15
96	Deep Feature Extraction for Face Liveness Detection. , 2018, , .		15
97	Food Image Classification with Deep Features. , 2019, , .		15
98	Wavelet ELM-AE Based Data Augmentation and Deep Learning for Efficient Emotion Recognition Using EEG Recordings. IEEE Access, 2022, 10, 72171-72181.	2.6	15
99	White Blood Cell Classification Based on Shape and Deep Features. , 2019, , .		14
100	Chronic Tympanic Membrane Diagnosis based on Deep Convolutional Neural Network. , 2019, , .		14
101	Deep rhythm and long short term memory-based drowsiness detection. Biomedical Signal Processing and Control, 2021, 65, 102364.	3.5	14
102	Feature Mapping and Deep Long Short Term Memory Network-Based Efficient Approach for Parkinson's Disease Diagnosis. IEEE Access, 2021, 9, 149456-149464.	2.6	14
103	Wavelet domain association rules for efficient texture classification. Applied Soft Computing Journal, 2011, 11, 32-38.	4.1	13
104	DeepEMGNet: An Application for Efficient Discrimination of ALS and Normal EMG Signals. Advances in Intelligent Systems and Computing, 2018, , 619-625.	0.5	13
105	A comparative analysis of common YouTube comment spam filtering techniques. , 2018, , .		13
106	A Simple and Effective Approach for Digitization of the CTG Signals from CTG Traces. Irbm, 2019, 40, 286-296.	3.7	13
107	Two-stepped majority voting for efficient EEG-based emotion classification. Brain Informatics, 2020, 7, 9.	1.8	13
108	A Simple and Effective Approach Based on a Multi-Level Feature Selection for Automated Parkinson's Disease Detection. Journal of Personalized Medicine, 2022, 12, 55.	1.1	13

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109	OMP-ELM: Orthogonal Matching Pursuit-Based Extreme Learning Machine for Regression. Journal of Intelligent Systems, 2015, 24, 135-143.	1.2	12
110	A novel 3D skeleton algorithm based on neutrosophic cost function. Applied Soft Computing Journal, 2015, 36, 210-217.	4.1	12
111	Low Level Texture Features for Snore Sound Discrimination. , 2018, 2018, 413-416.		12
112	Local feature descriptors based ECG beat classification. Health Information Science and Systems, 2020, 8, 20.	3.4	12
113	DeepCov19Net: Automated COVID-19 Disease Detection with a Robust and Effective Technique Deep Learning Approach. New Generation Computing, 2022, 40, 1053-1075.	2.5	12
114	Deep Learning Approach to Predict Forest Fires Using Meteorological Measurements. , 2021, , .		12
115	Robust Approach Based on Convolutional Neural Networks for Identification of Focal EEG Signals. , 2019, 3, 1-4.		11
116	Development of New Anpr Dataset for Automatic Number Plate Detection and Recognition in North of Iraq. , 2019, , .		11
117	MHD conjugate natural convection in a porous cavity involving a curved conductive partition and estimations by using Long Short-Term Memory Networks. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1457-1468.	2.0	11
118	A Novel Neutrosophic Weighted Extreme Learning Machine for Imbalanced Data Set. Symmetry, 2017, 9, 142.	1.1	10
119	Spotting Deepfakes and Face Manipulations by Fusing Features from Multi-Stream CNNs Models. Symmetry, 2021, 13, 1352.	1.1	10
120	A retinal vessel detection approach using convolution neural network. , 2017, , .		9
121	Deep convolutional neural networks for airport detection in remote sensing images. , 2018, , .		9
122	Bitcoin Price Prediction Using Machine Learning Methods. , 2019, , .		8
123	Efficient approach for digitization of the cardiotocography signals. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122725.	1.2	8
124	A Novel Edge Detection Algorithm Based on Texture Feature Coding. Journal of Intelligent Systems, 2015, 24, 235-248.	1.2	6
125	An Efficient Model for Automatic Number Plate Detection using HOG Feature from New North Iraq Vehicle Images Dataset. , 2019, , .		6
126	Prediction of protein cellular localization sites using a hybrid method based on artificial immune system and fuzzy k-NN algorithm. , 2009, 19, 815-826.		5

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127	Textural feature based target detection in through-the-wall radar imagery. , 2013, , .		5
128	Using neutrosophic graph cut segmentation algorithm for qualified rendering image selection in thyroid elastography video. Health Information Science and Systems, 2017, 5, 8.	3.4	5
129	Normal and Acute Tympanic Membrane Diagnosis based on Gray Level Co-Occurrence Matrix and Artificial Neural Networks. , 2019, , .		5
130	Classification of mental states from rational dilation wavelet transform and bagged tree classifier using EEG signals. , 2022, , 217-235.		5
131	Optic disc determination in retinal images with deep features. , 2018, , .		3
132	Deep Features and Extreme Learning Machines based Apparel Classification. , 2019, , .		3
133	Deep Learning and Audio Based Emotion Recognition. , 2019, , .		3
134	Mechanism of Bitcoin and Investigation of the Studies in the Literature Related to Bitcoin. , 2019, , .		3
135	Classification of Apricot Leaves with Extreme Learning Machines Using Deep Features. , 2019, , .		3
136	Dental Material Detection based on Faster Regional Convolutional Neural Networks and Shape Features. Neural Processing Letters, 2022, 54, 2107-2126.	2.0	3
137	Fall detection with depth-videos. , 2015, , .		2
138	Neutrosophic Hough Transform. Axioms, 2017, 6, 35.	0.9	2
139	Neutrosophic similarity score-based entropy measure for focal and nonfocal electroencephalogram signal classification. , 2019, , 247-268.		2
140	CLASSIFICATION OF AMYOTROPHIC LATERAL SCLEROSIS AND HEALTHY ELECTROMYOGRAPHY SIGNALS BASED ON TRANSFER LEARNING. European Journal of Technic, 2018, 8, 179-185.	0.2	2
141	Image segmentation applications with unsupervised neural networks. , 0, , .		1
142	Determination of Pollution on Photovoltaic Panels by Image Processing. , 2018, , .		1
143	Automatic Airport Detection with Line Segment Detector and Histogram of Oriented Gradients from Satellite Images. , 2018, , .		1
144	HEART SOUNDS CLASSIFICATION WITH DEEP FEATURES AND SUPPORT VECTOR MACHINES. , 2018, , .		1

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145	Compact Bilinear Deep Features For Environmental Sound Recognition. , 2018, , .		1
146	Deep End-to-End Representation Learning for Food Type Recognition from Speech. , 2018, , .		1
147	Transfer Learning Based Object Detection and Effect of Majority Voting on Classification Performance. , 2019, , .		1
148	Information Security and Related Machine Learning Applications. , 2019, , .		1
149	Automatic Environment Sounds Classification Using Optimum Allocation Sampling. , 2019, , .		1
150	Unsupervised Image Segmentation Using Markov Random Fields. Lecture Notes in Computer Science, 2006, , 158-167.	1.0	1
151	A Lung Sound Classification System Based on Data Augmenting Using ELM-Wavelet-AE. , 2022, 17, 79-88.		1
152	Image thresholding applications with two dimensional entropy. , 0, , .		0
153	Texture Classification Using Edge Detection and Association Rules. , 0, , .		0
154	Texture Classification by Using Wavelet Domain Association Rules. , 2007, , .		0
155	Rotational invariant image matching based on phase only correlation. , 2010, , .		0
156	Iterative hard thresholding based Extreme Learning Machine. , 2015, , .		0
157	Texture classification using scale invariant feature transform and Bag-of-Words. , 2015, , .		0
158	Hand gesture recognition from kinect depth images. , 2015, , .		0
159	A novel approach based on image processing algorithms for microaneurysm candidate detection. , 2017, , .		0
160	Localization of macular edema region from color retinal images for detection of diabetic retinopathy. , 2017, , .		0
161	Depth image super resolution via multi-hypothesis estimation. , 2017, , .		0
162	A Matlab Tool for Morris Water Maze Test Implementation. , 2018, , .		0

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163	Guest Editorial: Current Trends in Cognitive Science and Brain Computing Research and Applications. Electronics Letters, 2020, 56, 1354-1355.	0.5	0