

Muhammad A Khan

List of Publications by Year in descending order

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111
papers

6,038
citations

61984

43
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85541

71
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114
all docs

114
docs citations

114
times ranked

2382
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and classification of citrus diseases in agriculture based on optimized weighted segmentation and feature selection. Computers and Electronics in Agriculture, 2018, 150, 220-234.	7.7	292
2	Multimodal Brain Tumor Classification Using Deep Learning and Robust Feature Selection: A Machine Learning Application for Radiologists. Diagnostics, 2020, 10, 565.	2.6	231
3	Active deep neural network features selection for segmentation and recognition of brain tumors using MRI images. Pattern Recognition Letters, 2020, 129, 181-189.	4.2	199
4	Microscopic brain tumor detection and classification using <scp>3D CNN</scp> and feature selection architecture. Microscopy Research and Technique, 2021, 84, 133-149.	2.2	177
5	CCDF: Automatic system for segmentation and recognition of fruit crops diseases based on correlation coefficient and deep CNN features. Computers and Electronics in Agriculture, 2018, 155, 220-236.	7.7	170
6	Region Extraction and Classification of Skin Cancer: A Heterogeneous framework of Deep CNN Features Fusion and Reduction. Journal of Medical Systems, 2019, 43, 289.	3.6	167
7	Skin Lesion Segmentation and Multiclass Classification Using Deep Learning Features and Improved Moth Flame Optimization. Diagnostics, 2021, 11, 811.	2.6	146
8	Attributes based skin lesion detection and recognition: A mask RCNN and transfer learning-based deep learning framework. Pattern Recognition Letters, 2021, 143, 58-66.	4.2	142
9	Brain tumor detection and classification: A framework of marker-based watershed algorithm and multilevel priority features selection. Microscopy Research and Technique, 2019, 82, 909-922.	2.2	131
10	An improved strategy for skin lesion detection and classification using uniform segmentation and feature selection based approach. Microscopy Research and Technique, 2018, 81, 528-543.	2.2	129
11	An Optimized Method for Segmentation and Classification of Apple Diseases Based on Strong Correlation and Genetic Algorithm Based Feature Selection. IEEE Access, 2019, 7, 46261-46277.	4.2	128
12	Breast Cancer Classification from Ultrasound Images Using Probability-Based Optimal Deep Learning Feature Fusion. Sensors, 2022, 22, 807.	3.8	119
13	Gastrointestinal diseases segmentation and classification based on duo-deep architectures. Pattern Recognition Letters, 2020, 131, 193-204.	4.2	111
14	Classification of stomach infections: A paradigm of convolutional neural network along with classical features fusion and selection. Microscopy Research and Technique, 2020, 83, 562-576.	2.2	106
15	Prediction of COVID-19 - Pneumonia based on Selected Deep Features and One Class Kernel Extreme Learning Machine. Computers and Electrical Engineering, 2021, 90, 106960.	4.8	106
16	A Sustainable Deep Learning Framework for Object Recognition Using Multi-Layers Deep Features Fusion and Selection. Sustainability, 2020, 12, 5037.	3.2	105
17	Developed Newton-Raphson based deep features selection framework for skin lesion recognition. Pattern Recognition Letters, 2020, 129, 293-303.	4.2	104
18	Computer-Aided Gastrointestinal Diseases Analysis From Wireless Capsule Endoscopy: A Framework of Best Features Selection. IEEE Access, 2020, 8, 132850-132859.	4.2	104

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19	AUTOMATED ULCER AND BLEEDING CLASSIFICATION FROM WCE IMAGES USING MULTIPLE FEATURES FUSION AND SELECTION. Journal of Mechanics in Medicine and Biology, 2018, 18, 1850038.	0.7	100
20	License number plate recognition system using entropy-based features selection approach with SVM. IET Image Processing, 2018, 12, 200-209.	2.5	97
21	Deep CNN and geometric features-based gastrointestinal tract diseases detection and classification from wireless capsule endoscopy images. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 577-599.	2.8	92
22	Pixels to Classes: Intelligent Learning Framework for Multiclass Skin Lesion Localization and Classification. Computers and Electrical Engineering, 2021, 90, 106956.	4.8	92
23	Multi-Model Deep Neural Network based Features Extraction and Optimal Selection Approach for Skin Lesion Classification. , 2019, , .		88
24	A decision support system for multimodal brain tumor classification using deep learning. Complex & Intelligent Systems, 2022, 8, 3007-3020.	6.5	86
25	Multi-Class Skin Lesion Detection and Classification via Teledermatology. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 4267-4275.	6.3	86
26	Recognizing apple leaf diseases using a novel parallel real-time processing framework based on MASK RCNN and transfer learning: An application for smart agriculture. IET Image Processing, 2021, 15, 2157-2168.	2.5	84
27	Human action recognition using fusion of multiview and deep features: an application to video surveillance. Multimedia Tools and Applications, 2024, 83, 14885-14911.	3.9	80
28	Appearance based pedestrians' gender recognition by employing stacked auto encoders in deep learning. Future Generation Computer Systems, 2018, 88, 28-39.	7.5	79
29	Multiclass Skin Lesion Classification Using Hybrid Deep Features Selection and Extreme Learning Machine. Sensors, 2022, 22, 799.	3.8	78
30	Lungs nodule detection framework from computed tomography images using support vector machine. Microscopy Research and Technique, 2019, 82, 1256-1266.	2.2	77
31	Skin lesion segmentation and classification: A unified framework of deep neural network features fusion and selection. Expert Systems, 2022, 39, e12497.	4.5	77
32	Microscopic melanoma detection and classification: A framework of pixel-based fusion and multilevel features reduction. Microscopy Research and Technique, 2020, 83, 410-423.	2.2	75
33	StomachNet: Optimal Deep Learning Features Fusion for Stomach Abnormalities Classification. IEEE Access, 2020, 8, 197969-197981.	4.2	73
34	Construction of saliency map and hybrid set of features for efficient segmentation and classification of skin lesion. Microscopy Research and Technique, 2019, 82, 741-763.	2.2	69
35	Object detection and classification: a joint selection and fusion strategy of deep convolutional neural network and SIFT point features. Multimedia Tools and Applications, 2019, 78, 15751-15777.	3.9	69
36	From ECG signals to images: a transformation based approach for deep learning. PeerJ Computer Science, 2021, 7, e386.	4.5	67

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37	COVID-19 Case Recognition from Chest CT Images by Deep Learning, Entropy-Controlled Firefly Optimization, and Parallel Feature Fusion. <i>Sensors</i> , 2021, 21, 7286.	3.8	63
38	VGG19 Network Assisted Joint Segmentation and Classification of Lung Nodules in CT Images. <i>Diagnostics</i> , 2021, 11, 2208.	2.6	63
39	Microscopic skin laceration segmentation and classification: A framework of statistical normal distribution and optimal feature selection. <i>Microscopy Research and Technique</i> , 2019, 82, 1471-1488.	2.2	62
40	An implementation of optimized framework for action classification using multilayers neural network on selected fused features. <i>Pattern Analysis and Applications</i> , 2019, 22, 1377-1397.	4.6	59
41	An Efficient Deep Learning Approach to Automatic Glaucoma Detection Using Optic Disc and Optic Cup Localization. <i>Sensors</i> , 2022, 22, 434.	3.8	59
42	A resource conscious human action recognition framework using 26-layered deep convolutional neural network. <i>Multimedia Tools and Applications</i> , 2021, 80, 35827-35849.	3.9	58
43	A multilevel paradigm for deep convolutional neural network features selection with an application to human gait recognition. <i>Expert Systems</i> , 2022, 39, e12541.	4.5	58
44	Stomach Deformities Recognition Using Rank-Based Deep Features Selection. <i>Journal of Medical Systems</i> , 2019, 43, 329.	3.6	53
45	Time series forecasting of COVID-19 transmission in Asia Pacific countries using deep neural networks. <i>Personal and Ubiquitous Computing</i> , 2023, 27, 733-750.	2.8	52
46	A hierarchical three-step superpixels and deep learning framework for skin lesion classification. <i>Methods</i> , 2022, 202, 88-102.	3.8	51
47	A two-stream deep neural network-based intelligent system for complex skin cancer types classification. <i>International Journal of Intelligent Systems</i> , 2022, 37, 10621-10649.	5.7	50
48	Classification of gastrointestinal diseases of stomach from WCE using improved saliency-based method and discriminant features selection. <i>Multimedia Tools and Applications</i> , 2019, 78, 27743-27770.	3.9	44
49	Prosperous Human Gait Recognition: an end-to-end system based on pre-trained CNN features selection. <i>Multimedia Tools and Applications</i> , 2024, 83, 14979-14999.	3.9	44
50	Entropy-controlled deep features selection framework for grape leaf diseases recognition. <i>Expert Systems</i> , 2022, 39, .	4.5	43
51	A deep neural network and classical features based scheme for objects recognition: an application for machine inspection. <i>Multimedia Tools and Applications</i> , 2024, 83, 14935-14957.	3.9	41
52	Deep Rank-Based Average Pooling Network for Covid-19 Recognition. <i>Computers, Materials and Continua</i> , 2022, 70, 2797-2813.	1.9	38
53	A Computer-Aided Diagnosis System Using Deep Learning for Multiclass Skin Lesion Classification. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-15.	1.7	38
54	Intelligent fusion-assisted skin lesion localization and classification for smart healthcare. <i>Neural Computing and Applications</i> , 2024, 36, 37-52.	5.6	37

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55	Particle Swarm Optimization With Probability Sequence for Global Optimization. IEEE Access, 2020, 8, 110535-110549.	4.2	35
56	A hybrid algorithm (BAPSO) for capacity configuration optimization in a distributed solar PV based microgrid. Energy Reports, 2021, 7, 7906-7912.	5.1	35
57	Human Behavior Analysis Based on Multi-Types Features Fusion and Von Nauman Entropy Based Features Reduction. Journal of Medical Imaging and Health Informatics, 2019, 9, 662-669.	0.3	35
58	Automated design for recognition of blood cells diseases from hematopathology using classical features selection and ELM. Microscopy Research and Technique, 2021, 84, 202-216.	2.2	33
59	A joint framework of feature reduction and robust feature selection for cucumber leaf diseases recognition. Optik, 2021, 240, 166566.	2.9	33
60	An Expert System for Rotating Machine Fault Detection Using Vibration Signal Analysis. Sensors, 2021, 21, 7587.	3.8	32
61	Breast Cancer Detection and Classification using Traditional Computer Vision Techniques: A Comprehensive Review. Current Medical Imaging, 2021, 16, 1187-1200.	0.8	30
62	Human gait analysis for osteoarthritis prediction: a framework of deep learning and kernel extreme learning machine. Complex & Intelligent Systems, 2023, 9, 2665-2683.	6.5	30
63	Expert Hypertension Detection System Featuring Pulse Plethysmograph Signals and Hybrid Feature Selection and Reduction Scheme. Sensors, 2021, 21, 247.	3.8	29
64	Cucumber Leaf Diseases Recognition Using Multi Level Deep Entropy-ELM Feature Selection. Applied Sciences (Switzerland), 2022, 12, 593.	2.5	29
65	Intelligent microscopic approach for identification and recognition of citrus deformities. Microscopy Research and Technique, 2019, 82, 1542-1556.	2.2	27
66	Analysis of Brain MRI Images Using Improved CornerNet Approach. Diagnostics, 2021, 11, 1856.	2.6	27
67	Pseudo Zernike Moment and Deep Stacked Sparse Autoencoder for COVID-19 Diagnosis. Computers, Materials and Continua, 2021, 69, 3145-3162.	1.9	25
68	A dynamic clustering technique based on deep reinforcement learning for Internet of vehicles. Journal of Intelligent Manufacturing, 2021, 32, 757-768.	7.3	25
69	A review on federated learning towards image processing. Computers and Electrical Engineering, 2022, 99, 107818.	4.8	23
70	Classification of Positive COVID-19 CT Scans using Deep Learning. Computers, Materials and Continua, 2021, 66, 2923-2938.	1.9	22
71	Review of Automated Computerized Methods for Brain Tumor Segmentation and Classification. Current Medical Imaging, 2020, 16, 823-834.	0.8	22
72	A Rapid Artificial Intelligence-Based Computer-Aided Diagnosis System for COVID-19 Classification from CT Images. Behavioural Neurology, 2021, 2021, 1-13.	2.1	22

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73	Importance of Features Selection, Attributes Selection, Challenges and Future Directions for Medical Imaging Data: A Review. CMES - Computer Modeling in Engineering and Sciences, 2020, 125, 315-344.	1.1	21
74	COVID-19 Classification from Chest X-Ray Images: A Framework of Deep Explainable Artificial Intelligence. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	21
75	COVID19 Classification Using CT Images via Ensembles of Deep Learning Models. Computers, Materials and Continua, 2021, 69, 319-337.	1.9	20
76	A Long Short-Term Memory Biomarker-Based Prediction Framework for Alzheimer's Disease. Sensors, 2022, 22, 1475.	3.8	20
77	Gastric Tract Infections Detection and Classification from Wireless Capsule Endoscopy using Computer Vision Techniques: A Review. Current Medical Imaging, 2021, 16, 1229-1242.	0.8	19
78	Computer Decision Support System for Skin Cancer Localization and Classification. Computers, Materials and Continua, 2021, 68, 1041-1064.	1.9	19
79	A deep survey on supervised learning based human detection and activity classification methods. Multimedia Tools and Applications, 2021, 80, 27867-27923.	3.9	17
80	Medical Imaging Fusion Techniques: A Survey Benchmark Analysis, Open Challenges and Recommendations. Journal of Medical Imaging and Health Informatics, 2020, 10, 2523-2531.	0.3	17
81	Extraction and Evaluation of Corpus Callosum from 2D Brain MRI Slice: A Study with Cuckoo Search Algorithm. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-15.	1.3	15
82	Multiphase fault tolerance genetic algorithm for vm and task scheduling in datacenter. Information Processing and Management, 2021, 58, 102676.	8.6	15
83	Detection of glaucoma based on cup-to-disc ratio using fundus images. International Journal of Intelligent Systems Technologies and Applications, 2020, 19, 1.	0.2	14
84	Multiclass Stomach Diseases Classification Using Deep Learning Features Optimization. Computers, Materials and Continua, 2021, 67, 3381-3399.	1.9	14
85	Human Action Recognition using Machine Learning in Uncontrolled Environment. , 2021, , .		14
86	Detection and Classification of Gastrointestinal Diseases using Machine Learning. Current Medical Imaging, 2021, 17, 479-490.	0.8	13
87	Real-Time Violent Action Recognition Using Key Frames Extraction and Deep Learning. Computers, Materials and Continua, 2021, 69, 2217-2230.	1.9	13
88	Human Gait Analysis: A Sequential Framework of Lightweight Deep Learning and Improved Moth-Flame Optimization Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.7	12
89	A Multilevel Deep Feature Selection Framework for Diabetic Retinopathy Image Classification. Computers, Materials and Continua, 2022, 70, 2261-2276.	1.9	11
90	An Optimal Power Flow Solution of a System Integrated with Renewable Sources Using a Hybrid Optimizer. Sustainability, 2021, 13, 13382.	3.2	10

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91	Video Analytics Framework for Human Action Recognition. Computers, Materials and Continua, 2021, 68, 3841-3859.	1.9	9
92	Segmentation and Classification of Stomach Abnormalities Using Deep Learning. Computers, Materials and Continua, 2021, 69, 607-625.	1.9	9
93	Energy-efficient dynamic channel allocation algorithm in wireless body area network. Environment, Development and Sustainability, 0, , 1.	5.0	9
94	A Network Intrusion Detection System Using Hybrid Multilayer Deep Learning Model. Big Data, 0, , .	3.4	9
95	Screening of COVID-19 Patients Using Deep Learning and IoT Framework. Computers, Materials and Continua, 2021, 69, 3459-3475.	1.9	8
96	A Non-Blind Deconvolution Semi Pipelined Approach to Understand Text in Blurry Natural Images for Edge Intelligence. Information Processing and Management, 2021, 58, 102675.	8.6	8
97	A Decision Support System for Face Sketch Synthesis Using Deep Learning and Artificial Intelligence. Sensors, 2021, 21, 8178.	3.8	8
98	A Hybrid Data-Driven Approach for Multistep Ahead Prediction of State of Health and Remaining Useful Life of Lithium-Ion Batteries. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	8
99	Skin Lesion Classification: An Optimized Framework of Optimal Color Features Selection. , 2020, , .		7
100	M3BTCNet: multi model brain tumor classification using metaheuristic deep neural network features optimization. Neural Computing and Applications, 2024, 36, 95-110.	5.6	7
101	Classification of COVID-19 CT Scans via Extreme Learning Machine. Computers, Materials and Continua, 2021, 68, 1003-1019.	1.9	6
102	Gastric Tract Disease Recognition Using Optimized Deep Learning Features. Computers, Materials and Continua, 2021, 68, 2041-2056.	1.9	6
103	An Efficient Pareto Optimal Resource Allocation Scheme in Cognitive Radio-Based Internet of Things Networks. Sensors, 2022, 22, 451.	3.8	6
104	Pedestrian identification using motion-controlled deep neural network in real-time visual surveillance. Soft Computing, 0, , 1.	3.6	4
105	Malaria Blood Smear Classification Using Deep Learning and Best Features Selection. Computers, Materials and Continua, 2022, 70, 1875-1891.	1.9	4
106	Improved Text Summarization of News Articles Using GA-HC and PSO-HC. Applied Sciences (Switzerland), 2021, 11, 10511.	2.5	4
107	An Adaptive Image Processing Model of Plant Disease Diagnosis and Quantification Based on Color and Texture Histogram. , 2020, , .		3
108	Scalable offloading using machine learning methods for distributed multi-controller architecture of SDN networks. Journal of Supercomputing, 2022, 78, 10191-10210.	3.6	3

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109	Discrete light sheet microscopic segmentation of left ventricle using morphological tuning and active contours. Microscopy Research and Technique, 2022, 85, 308-323.	2.2	2
110	Optimization of Correlation Filters Using Extended Particle Swarm Optimization Technique. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	1.3	1
111	Customer Prioritization Integrated Supply Chain Optimization Model with Outsourcing Strategies. Big Data, 2022, , .	3.4	0