Khan Muhammad

List of Publications by Year
in descending order

261 papers	13,234 citations	20759 60 h-index	34900 98 g-index
261 all docs	261 docs citations	261 times ranked	8334 citing authors

#	Article	IF	Citations
1	Action Recognition in Video Sequences using Deep Bi-Directional LSTM With CNN Features. IEEE Access, 2018, 6, 1155-1166.	2.6	519
2	Multi-grade brain tumor classification using deep CNN with extensive data augmentation. Journal of Computational Science, 2019, 30, 174-182.	1.5	513
3	Convolutional Neural Networks Based Fire Detection in Surveillance Videos. IEEE Access, 2018, 6, 18174-18183.	2.6	358
4	Early fire detection using convolutional neural networks during surveillance for effective disaster management. Neurocomputing, 2018, 288, 30-42.	3.5	300
5	Efficient Deep CNN-Based Fire Detection and Localization in Video Surveillance Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1419-1434.	5.9	279
6	The impact of the hybrid platform of internet of things and cloud computing on healthcare systems: opportunities, challenges, and open problems. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 4151-4166.	3.3	279
7	A hybrid model of Internet of Things and cloud computing to manage big data in health services applications. Future Generation Computer Systems, 2018, 86, 1383-1394.	4.9	260
8	Speech Emotion Recognition from Spectrograms with Deep Convolutional Neural Network. , 2017, , .		222
9	Secure Surveillance Framework for IoT Systems Using Probabilistic Image Encryption. IEEE Transactions on Industrial Informatics, 2018, 14, 3679-3689.	7.2	219
10	Human Memory Update Strategy: A Multi-Layer Template Update Mechanism for Remote Visual Monitoring. IEEE Transactions on Multimedia, 2021, 23, 2188-2198.	5.2	217
11	Deep Learning for Multigrade Brain Tumor Classification in Smart Healthcare Systems: A Prospective Survey. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 507-522.	7.2	203
12	Secure and Robust Fragile Watermarking Scheme for Medical Images. IEEE Access, 2018, 6, 10269-10278.	2.6	189
13	Efficient Fire Detection for Uncertain Surveillance Environment. IEEE Transactions on Industrial Informatics, 2019, 15, 3113-3122.	7.2	184
14	Deep Learning for Safe Autonomous Driving: Current Challenges and Future Directions. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4316-4336.	4.7	170
15	Skin Cancer Detection: A Review Using Deep Learning Techniques. International Journal of Environmental Research and Public Health, 2021, 18, 5479.	1.2	164
16	Dual watermarking framework for privacy protection and content authentication of multimedia. Future Generation Computer Systems, 2019, 94, 654-673.	4.9	140
17	Efficient visual attention based framework for extracting key frames from videos. Signal Processing: Image Communication, 2013, 28, 34-44.	1.8	134
18	CNN features with bi-directional LSTM for real-time anomaly detection in surveillance networks. Multimedia Tools and Applications, 2021, 80, 16979-16995.	2.6	133

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19	Federated learning for COVID-19 screening from Chest X-ray images. Applied Soft Computing Journal, 2021, 106, 107330.	4.1	133
20	Fuzzy-aided solution for out-of-view challenge in visual tracking under IoT-assisted complex environment. Neural Computing and Applications, 2021, 33, 1055-1065.	3.2	130
21	A privacy-preserving cryptosystem for IoT E-healthcare. Information Sciences, 2020, 527, 493-510.	4.0	129
22	Effective template update mechanism in visual tracking with background clutter. Neurocomputing, 2021, 458, 615-625.	3.5	128
23	A novel magic LSB substitution method (M-LSB-SM) using multi-level encryption and achromatic component of an image. Multimedia Tools and Applications, 2016, 75, 14867-14893.	2.6	127
24	Energy-Efficient Deep CNN for Smoke Detection in Foggy IoT Environment. IEEE Internet of Things Journal, 2019, 6, 9237-9245.	5.5	127
25	Activity Recognition Using Temporal Optical Flow Convolutional Features and Multilayer LSTM. IEEE Transactions on Industrial Electronics, 2019, 66, 9692-9702.	5.2	127
26	Raspberry Pi assisted face recognition framework for enhanced law-enforcement services in smart cities. Future Generation Computer Systems, 2020, 108, 995-1007.	4.9	127
27	Violence Detection Using Spatiotemporal Features with 3D Convolutional Neural Network. Sensors, 2019, 19, 2472.	2.1	124
28	Deep features-based speech emotion recognition for smart affective services. Multimedia Tools and Applications, 2019, 78, 5571-5589.	2.6	123
29	Multiobjective 3-D Topology Optimization of Next-Generation Wireless Data Center Network. IEEE Transactions on Industrial Informatics, 2020, 16, 3597-3605.	7.2	123
30	Action recognition using optimized deep autoencoder and CNN for surveillance data streams of non-stationary environments. Future Generation Computer Systems, 2019, 96, 386-397.	4.9	120
31	Towards Efficient Electricity Forecasting in Residential and Commercial Buildings: A Novel Hybrid CNN with a LSTM-AE based Framework. Sensors, 2020, 20, 1399.	2.1	112
32	Cloud-Assisted Multiview Video Summarization Using CNN and Bidirectional LSTM. IEEE Transactions on Industrial Informatics, 2020, 16, 77-86.	7.2	101
33	Quantum-enhanced multiobjective large-scale optimization via parallelism. Swarm and Evolutionary Computation, 2020, 57, 100697.	4.5	101
34	Reliability of response region: A novel mechanism in visual tracking by edge computing for IIoT environments. Mechanical Systems and Signal Processing, 2020, 138, 106537.	4.4	98
35	A Novel High Gain Wideband MIMO Antenna for 5G Millimeter Wave Applications. Electronics (Switzerland), 2020, 9, 1031.	1.8	96
36	CISSKA-LSB: color image steganography using stego key-directed adaptive LSB substitution method. Multimedia Tools and Applications, 2017, 76, 8597-8626.	2.6	93

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37	Hash Based Encryption for Keyframes of Diagnostic Hysteroscopy. IEEE Access, 2018, 6, 60160-60170.	2.6	88
38	Edge Intelligence-Assisted Smoke Detection in Foggy Surveillance Environments. IEEE Transactions on Industrial Informatics, 2020, 16, 1067-1075.	7.2	87
39	A Review of Artificial Intelligence Methods for Condition Monitoring and Fault Diagnosis of Rolling Element Bearings for Induction Motor. Shock and Vibration, 2020, 2020, 1-20.	0.3	87
40	Saliency-directed prioritization of visual data in wireless surveillance networks. Information Fusion, 2015, 24, 16-30.	11.7	86
41	Multi-Class Skin Lesion Detection and Classification via Teledermatology. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 4267-4275.	3.9	86
42	CNN-based anti-spoofing two-tier multi-factor authentication system. Pattern Recognition Letters, 2019, 126, 123-131.	2.6	84
43	Performance Analysis of Boosting Classifiers in Recognizing Activities of Daily Living. International Journal of Environmental Research and Public Health, 2020, 17, 1082.	1.2	84
44	Brain Tumor/Mass Classification Framework Using Magnetic-Resonance-Imaging-Based Isolated and Developed Transfer Deep-Learning Model. Sensors, 2022, 22, 372.	2.1	84
45	Leukocytes Classification and Segmentation in Microscopic Blood Smear: A Resource-Aware Healthcare Service in Smart Cities. IEEE Access, 2017, 5, 3475-3489.	2.6	81
46	IoT-Based Smart Waste Bin Monitoring and Municipal Solid Waste Management System for Smart Cities. Arabian Journal for Science and Engineering, 2020, 45, 10185-10198.	1.7	81
47	An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. IEEE Internet of Things Journal, 2021, 8, 3170-3179.	5.5	80
48	Vehicle Detection and Tracking in Adverse Weather Using a Deep Learning Framework. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4230-4242.	4.7	79
49	A comprehensive survey of multi-view video summarization. Pattern Recognition, 2021, 109, 107567.	5.1	78
50	Image steganography using uncorrelated color space and its application for security of visual contents in online social networks. Future Generation Computer Systems, 2018, 86, 951-960.	4.9	76
51	Cost-Effective Video Summarization Using Deep CNN With Hierarchical Weighted Fusion for IoT Surveillance Networks. IEEE Internet of Things Journal, 2020, 7, 4455-4463.	5.5	74
52	Machine learning-assisted signature and heuristic-based detection of malwares in Android devices. Computers and Electrical Engineering, 2018, 69, 828-841.	3.0	73
53	Object Tracking in Vary Lighting Conditions for Fog Based Intelligent Surveillance of Public Spaces. IEEE Access, 2018, 6, 29283-29296.	2.6	73
54	Efficient activity recognition using lightweight CNN and DS-GRU network for surveillance applications. Applied Soft Computing Journal, 2021, 103, 107102.	4.1	72

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55	Cover the Violence: A Novel Deep-Learning-Based Approach Towards Violence-Detection in Movies. Applied Sciences (Switzerland), 2019, 9, 4963.	1.3	70
56	Efficient CNN based summarization of surveillance videos for resource-constrained devices. Pattern Recognition Letters, 2020, 130, 370-375.	2.6	68
57	Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. IEEE Internet of Things Journal, 2021, 8, 5141-5148.	5.5	68
58	Role of Hybrid Deep Neural Networks (HDNNs), Computed Tomography, and Chest X-rays for the Detection of COVID-19. International Journal of Environmental Research and Public Health, 2021, 18, 3056.	1.2	68
59	A Novel Image Steganography Method for Industrial Internet of Things Security. IEEE Transactions on Industrial Informatics, 2021, 17, 7743-7751.	7.2	67
60	Artificial Intelligence of Things-assisted two-stream neural network for anomaly detection in surveillance Big Video Data. Future Generation Computer Systems, 2022, 129, 286-297.	4.9	67
61	Raspberry Pi assisted facial expression recognition framework for smart security in law-enforcement services. Information Sciences, 2019, 479, 416-431.	4.0	66
62	An Open IoHT-Based Deep Learning Framework for Online Medical Image Recognition. IEEE Journal on Selected Areas in Communications, 2021, 39, 541-548.	9.7	66
63	DeepSmoke: Deep learning model for smoke detection and segmentation in outdoor environments. Expert Systems With Applications, 2021, 182, 115125.	4.4	66
64	COVID-Transformer: Interpretable COVID-19 Detection Using Vision Transformer for Healthcare. International Journal of Environmental Research and Public Health, 2021, 18, 11086.	1.2	66
65	Human Behavior Understanding in Big Multimedia Data Using CNN based Facial Expression Recognition. Mobile Networks and Applications, 2020, 25, 1611-1621.	2.2	64
66	Efficient Security and Authentication for Edge-Based Internet of Medical Things. IEEE Internet of Things Journal, 2021, 8, 15652-15662.	5.5	63
67	Light-DehazeNet: A Novel Lightweight CNN Architecture for Single Image Dehazing. IEEE Transactions on Image Processing, 2021, 30, 8968-8982.	6.0	63
68	DeepReS: A Deep Learning-Based Video Summarization Strategy for Resource-Constrained Industrial Surveillance Scenarios. IEEE Transactions on Industrial Informatics, 2020, 16, 5938-5947.	7.2	61
69	Human Short Long-Term Cognitive Memory Mechanism for Visual Monitoring in IoT-Assisted Smart Cities. IEEE Internet of Things Journal, 2022, 9, 7128-7139.	5.5	61
70	Intelligent Embedded Vision for Summarization of Multiview Videos in IIoT. IEEE Transactions on Industrial Informatics, 2020, 16, 2592-2602.	7.2	60
71	Dual-Level Security based Cyclic18 Steganographic Method and its Application for Secure Transmission of Keyframes during Wireless Capsule Endoscopy. Journal of Medical Systems, 2016, 40, 114.	2.2	58
72	A Novel Method for COVID-19 Diagnosis Using Artificial Intelligence in Chest X-ray Images. Healthcare (Switzerland), 2021, 9, 522.	1.0	58

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73	Waste Management and Prediction of Air Pollutants Using IoT and Machine Learning Approach. Energies, 2020, 13, 3930.	1.6	57
74	Towards Short Term Electricity Load Forecasting Using Improved Support Vector Machine and Extreme Learning Machine. Energies, 2020, 13, 2907.	1.6	57
75	An Efficient Anomaly Recognition Framework Using an Attention Residual LSTM in Surveillance Videos. Sensors, 2021, 21, 2811.	2.1	57
76	Secure video summarization framework for personalized wireless capsule endoscopy. Pervasive and Mobile Computing, 2017, 41, 436-450.	2.1	56
77	Mobile-cloud assisted framework for selective encryption of medical images with steganography for resource-constrained devices. Multimedia Tools and Applications, 2017, 76, 3519-3536.	2.6	56
78	Electrical Energy Prediction in Residential Buildings for Short-Term Horizons Using Hybrid Deep Learning Strategy. Applied Sciences (Switzerland), 2020, 10, 8634.	1.3	54
79	DWFCAT: Dual Watermarking Framework for Industrial Image Authentication and Tamper Localization. IEEE Transactions on Industrial Informatics, 2021, 17, 5108-5117.	7.2	54
80	Batteries State of Health Estimation via Efficient Neural Networks With Multiple Channel Charging Profiles. IEEE Access, 2021, 9, 7797-7813.	2.6	54
81	Visual features based boosted classification of weeds for real-time selective herbicide sprayer systems. Computers in Industry, 2018, 98, 23-33.	5.7	53
82	Image steganography for authenticity of visual contents in social networks. Multimedia Tools and Applications, 2017, 76, 18985-19004.	2.6	52
83	Intelligent Baby Behavior Monitoring using Embedded Vision in IoT for Smart Healthcare Centers. Journal of Artificial Intelligence and Systems, 2019, 1, 110-124.	0.7	52
84	GAN-Based Semi-Supervised Learning Approach for Clinical Decision Support in Health-IoT Platform. IEEE Access, 2019, 7, 8048-8057.	2.6	51
85	Efficient Image Recognition and Retrieval on IoT-Assisted Energy-Constrained Platforms From Big Data Repositories. IEEE Internet of Things Journal, 2019, 6, 9246-9255.	5.5	50
86	Vision Sensor-Based Real-Time Fire Detection in Resource-Constrained IoT Environments. Computational Intelligence and Neuroscience, 2021, 2021, 1-15.	1.1	49
87	Ensemble-classifiers-assisted detection of cerebral microbleeds in brain MRI. Computers and Electrical Engineering, 2018, 69, 768-781.	3.0	46
88	Secure data transmission framework for confidentiality in IoTs. Ad Hoc Networks, 2019, 95, 101989.	3.4	46
89	Elastic and cost-effective data carrier architecture for smart contract in blockchain. Future Generation Computer Systems, 2019, 100, 590-599.	4.9	46
90	Fog computing enabled cost-effective distributed summarization of surveillance videos for smart cities. Journal of Parallel and Distributed Computing, 2019, 126, 161-170.	2.7	46

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91	Reversible data hiding exploiting Huffman encoding with dual images for IoMT based healthcare. Computer Communications, 2020, 163, 134-149.	3.1	46
92	Analysis of high-dimensional biomedical data using an evolutionary multi-objective emperor penguin optimizer. Swarm and Evolutionary Computation, 2019, 48, 262-273.	4.5	45
93	Breast cancer detection using an ensemble deep learning method. Biomedical Signal Processing and Control, 2021, 70, 103009.	3.5	45
94	Five-category classification of pathological brain images based on deep stacked sparse autoencoder. Multimedia Tools and Applications, 2019, 78, 4045-4064.	2.6	44
95	Efficient visual attention driven framework for key frames extraction from hysteroscopy videos. Biomedical Signal Processing and Control, 2017, 33, 161-168.	3.5	43
96	Mobility Enabled Security for Optimizing IoT based Intelligent Applications. IEEE Network, 2020, 34, 72-77.	4.9	43
97	METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. IEEE Internet of Things Journal, 2021, 8, 12705-12715.	5.5	43
98	Analysis of high-dimensional genomic data employing a novel bio-inspired algorithm. Applied Soft Computing Journal, 2019, 77, 520-532.	4.1	41
99	Deep Learning Assisted Buildings Energy Consumption Profiling Using Smart Meter Data. Sensors, 2020, 20, 873.	2.1	41
100	Conflux LSTMs Network: A Novel Approach for Multi-View Action Recognition. Neurocomputing, 2021, 435, 321-329.	3.5	41
101	Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. IEEE Internet of Things Journal, 2021, 8, 6393-6405.	5.5	41
102	A Reliable Sample Selection Strategy for Weakly Supervised Visual Tracking. IEEE Transactions on Reliability, 2023, 72, 15-26.	3.5	40
103	AI-Assisted Edge Vision for Violence Detection in IoT-Based Industrial Surveillance Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 5359-5370.	7.2	39
104	Prioritization of brain MRI volumes using medical image perception model and tumor region segmentation. Computers in Biology and Medicine, 2013, 43, 1471-1483.	3.9	38
105	A review on automated diagnosis of malaria parasite in microscopic blood smears images. Multimedia Tools and Applications, 2018, 77, 9801-9826.	2.6	38
106	Intelligent and Energy-Efficient Data Prioritization in Green Smart Cities: Current Challenges and Future Directions. IEEE Communications Magazine, 2019, 57, 60-65.	4.9	38
107	Intelligent fusion-assisted skin lesion localization and classification for smart healthcare. Neural Computing and Applications, 2024, 36, 37-52.	3.2	37
108	An optimal cascaded recurrent neural network for intelligent COVID-19 detection using Chest X-ray images. Applied Soft Computing Journal, 2021, 113, 107878.	4.1	36

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109	Video summarization based tele-endoscopy: a service to efficiently manage visual data generated during wireless capsule endoscopy procedure. Journal of Medical Systems, 2014, 38, 109.	2.2	35
110	Visual saliency models for summarization of diagnostic hysteroscopy videos in healthcare systems. SpringerPlus, 2016, 5, 1495.	1.2	35
111	Endoscopic Image Classification and Retrieval using Clustered Convolutional Features. Journal of Medical Systems, 2017, 41, 196.	2.2	35
112	Robust Image Hashing Based Efficient Authentication for Smart Industrial Environment. IEEE Transactions on Industrial Informatics, 2019, 15, 6541-6550.	7.2	35
113	An Adoptive Threshold-Based Multi-Level Deep Convolutional Neural Network for Glaucoma Eye Disease Detection and Classification. Diagnostics, 2020, 10, 602.	1.3	35
114	Sequential Learning-Based Energy Consumption Prediction Model for Residential and Commercial Sectors. Mathematics, 2021, 9, 605.	1.1	35
115	An Adaptive Game-Based Learning Strategy for Children Road Safety Education and Practice in Virtual Space. Sensors, 2021, 21, 3661.	2.1	35
116	A Security Management Framework for Big Data in Smart Healthcare. Big Data Research, 2021, 25, 100225.	2.6	35
117	Mobile-Cloud Assisted Video Summarization Framework for Efficient Management of Remote Sensing Data Generated by Wireless Capsule Sensors. Sensors, 2014, 14, 17112-17145.	2.1	34
118	Fuzzy-Based Fault-Tolerant Control for Omnidirectional Mobile Robot. Machines, 2020, 8, 55.	1.2	34
119	Medical Image Retrieval with Compact Binary Codes Generated in Frequency Domain Using Highly Reactive Convolutional Features. Journal of Medical Systems, 2018, 42, 24.	2.2	32
120	Cyber Threat Predictive Analytics for Improving Cyber Supply Chain Security. IEEE Access, 2021, 9, 94318-94337.	2.6	31
121	Privacy-preserving image retrieval for mobile devices with deep features on the cloud. Computer Communications, 2018, 127, 75-85.	3.1	30
122	DeepStar: Detecting Starring Characters in Movies. IEEE Access, 2019, 7, 9265-9272.	2.6	30
123	Nature Inspired MIMO Antenna System for Future mmWave Technologies. Micromachines, 2020, 11, 1083.	1.4	30
124	Do Corporate Social Responsibility Disclosures Improve Financial Performance? A Perspective of the Islamic Banking Industry in Pakistan. Sustainability, 2020, 12, 3302.	1.6	30
125	Vision-based personalized Wireless Capsule Endoscopy for smart healthcare: Taxonomy, literature review, opportunities and challenges. Future Generation Computer Systems, 2020, 113, 266-280.	4.9	30
126	Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. IEEE Internet of Things Journal, 2021, 8, 9634-9644.	5.5	30

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127	SD-Net: Understanding overcrowded scenes in real-time via an efficient dilated convolutional neural network. Journal of Real-Time Image Processing, 2021, 18, 1729-1743.	2.2	29
128	Smart and intelligent energy monitoring systems: A comprehensive literature survey and future research guidelines. International Journal of Energy Research, 2021, 45, 3590-3614.	2.2	29
129	Security Framework for IoT Based Real-Time Health Applications. Electronics (Switzerland), 2021, 10, 719.	1.8	29
130	Secret Sharing-based Personal Health Records Management for the Internet of Health Things. Sustainable Cities and Society, 2021, 74, 103129.	5.1	29
131	Vision Transformer and Deep Sequence Learning for Human Activity Recognition in Surveillance Videos. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	29
132	Object-oriented convolutional features for fine-grained image retrieval in large surveillance datasets. Future Generation Computer Systems, 2018, 81, 314-330.	4.9	28
133	Towards Efficient Building Designing: Heating and Cooling Load Prediction via Multi-Output Model. Sensors, 2020, 20, 6419.	2.1	28
134	Big Data Analytics for Short and Medium-Term Electricity Load Forecasting Using an AI Techniques Ensembler. Energies, 2020, 13, 5193.	1.6	28
135	A Systematic Mapping Review on MOOC Recommender Systems. IEEE Access, 2021, 9, 118379-118405.	2.6	28
136	Efficient Conversion of Deep Features to Compact Binary Codes Using Fourier Decomposition for Multimedia Big Data. IEEE Transactions on Industrial Informatics, 2018, 14, 3205-3215.	7.2	27
137	Lip biometric template security framework using spatial steganography. Pattern Recognition Letters, 2019, 126, 102-110.	2.6	27
138	SiNC: Saliency-injected neural codes for representation and efficient retrieval of medical radiographs. PLoS ONE, 2017, 12, e0181707.	1.1	27
139	Personalized Movie Summarization Using Deep CNN-Assisted Facial Expression Recognition. Complexity, 2019, 2019, 1-10.	0.9	26
140	Energy-Efficient Monitoring of Fire Scenes for Intelligent Networks. IEEE Network, 2020, 34, 108-115.	4.9	26
141	Natural Disasters Intensity Analysis and Classification Based on Multispectral Images Using Multi-Layered Deep Convolutional Neural Network. Sensors, 2021, 21, 2648.	2.1	26
142	Design and Experimental Analysis of Multiband Frequency Reconfigurable Antenna for 5G and Sub-6 GHz Wireless Communication. Micromachines, 2021, 12, 32.	1.4	26
143	Image super-resolution using sparse coding over redundant dictionary based on effective image representations. Journal of Visual Communication and Image Representation, 2015, 26, 50-65.	1.7	25
144	School of the Future: A Comprehensive Study on the Effectiveness of Augmented Reality as a Tool for Primary School Children's Education. Applied Sciences (Switzerland), 2021, 11, 5277.	1.3	24

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145	Multi-scale local structure patterns histogram for describing visual contents in social image retrieval systems. Multimedia Tools and Applications, 2016, 75, 12669-12692.	2.6	23
146	Diving Deep into Short-Term Electricity Load Forecasting: Comparative Analysis and a Novel Framework. Mathematics, 2021, 9, 611.	1.1	23
147	Real Time Multipurpose Smart Waste Classification Model for Efficient Recycling in Smart Cities Using Multilayer Convolutional Neural Network and Perceptron. Sensors, 2021, 21, 4916.	2.1	23
148	An intelligent system for complex violence pattern analysis and detection. International Journal of Intelligent Systems, 2022, 37, 10400-10422.	3.3	22
149	Assessment of PERSIANN-CCS, PERSIANN-CDR, SM2RAIN-ASCAT, and CHIRPS-2.0 Rainfall Products over a Semi-Arid Subtropical Climatic Region. Water (Switzerland), 2022, 14, 147.	1.2	22
150	Anisotropic Diffusion based Brain MRI Segmentation and 3D Reconstruction. International Journal of Computational Intelligence Systems, 2012, 5, 494.	1.6	21
151	Sparse Representations-Based Super-Resolution of Key-Frames Extracted from Frames-Sequences Generated by a Visual Sensor Network. Sensors, 2014, 14, 3652-3674.	2.1	21
152	Identification of Alcoholism Based on Wavelet Renyi Entropy and Three-Segment Encoded Jaya Algorithm. Complexity, 2018, 2018, 1-13.	0.9	21
153	Deep-ReID: deep features and autoencoder assisted image patching strategy for person re-identification in smart cities surveillance. Multimedia Tools and Applications, 2024, 83, 15079-15100.	2.6	21
154	Efficient Short-Term Electricity Load Forecasting for Effective Energy Management. Sustainable Energy Technologies and Assessments, 2022, 53, 102337.	1.7	21
155	Design of a Novel Electric Diagnostic Technique for Fault Analysis of Centrifugal Pumps. Applied Sciences (Switzerland), 2019, 9, 5093.	1.3	20
156	Fuzzy Logic in Surveillance Big Video Data Analysis. ACM Computing Surveys, 2022, 54, 1-33.	16.1	20
157	Smart Sensing Based Functional Control for Reducing Uncertainties in Agricultural Farm Data Analysis. IEEE Sensors Journal, 2021, 21, 17469-17478.	2.4	20
158	Opposition-based ant colony optimization with all-dimension neighborhood search for engineering design. Journal of Computational Design and Engineering, 2022, 9, 1007-1044.	1.5	20
159	A deep fuzzy model for diagnosis of COVID-19 from CT images. Applied Soft Computing Journal, 2022, 122, 108883.	4.1	20
160	An efficient computerized decision support system for the analysis and 3D visualization of brain tumor. Multimedia Tools and Applications, 2019, 78, 12723-12748.	2.6	19
161	Movie scene segmentation using object detection and set theory. International Journal of Distributed Sensor Networks, 2019, 15, 15501477198452527.	1.3	19
162	Hiding medical information in brain MR images without affecting accuracy of classifying pathological brain. Future Generation Computer Systems, 2019, 99, 235-246.	4.9	19

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163	ML-DCNNet: Multi-level Deep Convolutional Neural Network for Facial Expression Recognition and Intensity Estimation. Arabian Journal for Science and Engineering, 2020, 45, 10605-10620.	1.7	19
164	Multi-kernel based adaptive interpolation for image super-resolution. Multimedia Tools and Applications, 2014, 72, 2063-2085.	2.6	18
165	Understanding Citizen Issues through Reviews: A Step towards Data Informed Planning in Smart Cities. Applied Sciences (Switzerland), 2018, 8, 1589.	1.3	18
166	Exploration and determination of algal role as Bioindicator to evaluate water quality â€" Probing fresh water algae. Saudi Journal of Biological Sciences, 2021, 28, 5728-5737.	1.8	18
167	Data augmentation-assisted deep learning of hand-drawn partially colored sketches for visual search. PLoS ONE, 2017, 12, e0183838.	1.1	18
168	Spatio-Temporal Self-Attention Network for Fire Detection and Segmentation in Video Surveillance. IEEE Access, 2022, 10, 1259-1275.	2.6	18
169	Response Surface Methodology and Artificial Neural Network Modelling of Membrane Rotating Biological Contactors for Wastewater Treatment. Materials, 2022, 15, 1932.	1.3	18
170	A Secure Communication in IoT Enabled Underwater and Wireless Sensor Network for Smart Cities. Sensors, 2020, 20, 4309.	2.1	17
171	INDFORG: Industrial Forgery Detection Using Automatic Rotation Angle Detection and Correction. IEEE Transactions on Industrial Informatics, 2021, 17, 3630-3639.	7.2	16
172	Investigating the Impact of Cu2+ Doping on the Morphological, Structural, Optical, and Electrical Properties of CoFe2O4 Nanoparticles for Use in Electrical Devices. Materials, 2022, 15, 3502.	1.3	16
173	Comparison of Machine Learning Classifiers for Accurate Prediction of Real-Time Stuck Pipe Incidents. Energies, 2020, 13, 3683.	1.6	15
174	One-Shot Learning for Surveillance Anomaly Recognition using Siamese 3D CNN. , 2020, , .		15
175	An Efficient and Scalable Simulation Model for Autonomous Vehicles With Economical Hardware. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1718-1732.	4.7	15
176	A Connectivity-Based Clustering Scheme for Intelligent Vehicles. Applied Sciences (Switzerland), 2021, 11, 2413.	1.3	15
177	Microstructure and Mechanical Properties of Modified 316L Stainless Steel Alloy for Biomedical Applications Using Powder Metallurgy. Materials, 2022, 15, 2822.	1.3	15
178	A Robust Regression-Based Stock Exchange Forecasting and Determination of Correlation Between Stock Markets. Sustainability, 2018, 10, 3702.	1.6	14
179	Cost-effective broad learning-based ultrasound biomicroscopy with 3D reconstruction for ocular anterior segmentation. Multimedia Tools and Applications, 2021, 80, 35105-35122.	2.6	14
180	Smart Fire Detection and Deterrent System for Human Savior by Using Internet of Things (IoT). Energies, 2021, 14, 5500.	1.6	14

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182	Atrous Convolutions and Residual GRU Based Architecture for Matching Power Demand with Supply. Sensors, 2021, 21, 7191.	2.1	14
183	EADN: An Efficient Deep Learning Model for Anomaly Detection in Videos. Mathematics, 2022, 10, 1555.	1.1	14
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