

Asifullah Khan

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

6,392
citations

93792

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h-index

81351

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135
all docs

135
docs citations

135
times ranked

5919
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of tumour infiltrating lymphocytes in CD3 and CD8 stained histopathological images using a two-phase deep CNN. Photodiagnosis and Photodynamic Therapy, 2022, 37, 102676.	1.3	19
2	COVID-19 Detection in Chest X-ray Images Using a New Channel Boosted CNN. Diagnostics, 2022, 12, 267.	1.3	42
3	Zero-day Ransomware Attack Detection using Deep Contractive Autoencoder and Voting based Ensemble Classifier. Applied Intelligence, 2022, 52, 13941-13960.	3.3	21
4	A New Deep Hybrid Boosted and Ensemble Learning-Based Brain Tumor Analysis Using MRI. Sensors, 2022, 22, 2726.	2.1	41
5	Reverse Image Search Using Deep Unsupervised Generative Learning and Deep Convolutional Neural Network. Applied Sciences (Switzerland), 2022, 12, 4943.	1.3	3
6	Malaria parasite classification framework using a novel channel squeezed and boosted CNN. Microscopy (Oxford, England), 2022, 71, 271-282.	0.7	16
7	Traffic Flow Management of Autonomous Vehicles Using Deep Reinforcement Learning and Smart Rerouting. IEEE Access, 2021, 9, 51005-51019.	2.6	26
8	A multi-phase deep CNN based mitosis detection framework for breast cancer histopathological images. Scientific Reports, 2021, 11, 6215.	1.6	67
9	Deep convolutional neural network and emotional learning based breast cancer detection using digital mammography. Computers in Biology and Medicine, 2021, 132, 104318.	3.9	39
10	Traffic Flow Management of Autonomous Vehicles Using Platooning and Collision Avoidance Strategies. Electronics (Switzerland), 2021, 10, 1221.	1.8	13
11	A recent survey on the applications of genetic programming in image processing. Computational Intelligence, 2021, 37, 1745-1778.	2.1	9
12	Mitotic nuclei analysis in breast cancer histopathology images using deep ensemble classifier. Medical Image Analysis, 2021, 72, 102121.	7.0	37
13	Coronavirus disease analysis using chest X-ray images and a novel deep convolutional neural network. Photodiagnosis and Photodynamic Therapy, 2021, 35, 102473.	1.3	36
14	COVID-19 detection in chest X-ray images using deep boosted hybrid learning. Computers in Biology and Medicine, 2021, 137, 104816.	3.9	52
15	Detection of Exceptional Malware Variants Using Deep Boosted Feature Spaces and Machine Learning. Applied Sciences (Switzerland), 2021, 11, 10464.	1.3	15
16	Intrusion detection using deep sparse auto-encoder and self-taught learning. Neural Computing and Applications, 2020, 32, 3135-3147.	3.2	43
17	Multifaceted fused-CNN based scoring of breast cancer whole-slide histopathology images. Applied Soft Computing Journal, 2020, 97, 106808.	4.1	29
18	Autonomous Navigation of Swarms in 3D Environments Using Deep Reinforcement Learning. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Development of a Low-Cost Sensor-Based Adaptive Gripper. , 2020, , .		0
20	Mitosis detection in breast cancer histopathology images using hybrid feature space. Photodiagnosis and Photodynamic Therapy, 2020, 31, 101885.	1.3	22
21	Channel Boosted Convolutional Neural Network for Classification of Mitotic Nuclei using Histopathological Images. , 2020, , .		11
22	Wind power prediction using a three stage genetic ensemble and auxiliary predictor. Applied Soft Computing Journal, 2020, 90, 106151.	4.1	34
23	A survey of the recent architectures of deep convolutional neural networks. Artificial Intelligence Review, 2020, 53, 5455-5516.	9.7	1,454
24	Sliding mode control for a fractional-order nonlinear glucose-insulin system. IET Systems Biology, 2020, 14, 223-229.	0.8	10
25	Lymphocyte Annotator: CD3+ and CD8+ IHC Stained Patch Image Annotation Tool. , 2020, , .		3
26	Adaptive transfer learning in deep neural networks: Wind power prediction using knowledge transfer from region to region and between different task domains. Computational Intelligence, 2019, 35, 1088-1112.	2.1	19
27	Network anomaly detection using channel boosted and residual learning based deep convolutional neural network. Applied Soft Computing Journal, 2019, 83, 105612.	4.1	81
28	Detecting Driver Drowsiness in Real Time Through Deep Learning Based Object Detection. Lecture Notes in Computer Science, 2019, , 283-296.	1.0	28
29	Recent Progress on Generative Adversarial Networks (GANs): A Survey. IEEE Access, 2019, 7, 36322-36333.	2.6	375
30	Transfer learning based deep CNN for segmentation and detection of mitoses in breast cancer histopathological images. Microscopy (Oxford, England), 2019, 68, 216-233.	0.7	85
31	Object detection using hybridization of static and dynamic feature spaces and its exploitation by ensemble classification. Neural Computing and Applications, 2019, 31, 347-361.	3.2	8
32	Bio-inspired heuristics for layer thickness optimization in multilayer piezoelectric transducer for broadband structures. Soft Computing, 2019, 23, 3449-3463.	2.1	36
33	Multi-Dimensional Scaling based grouping of known complexes and intelligent protein complex detection. Computational Biology and Chemistry, 2018, 74, 149-156.	1.1	11
34	Analysis of tuberculosis disease through Raman spectroscopy and machine learning. Photodiagnosis and Photodynamic Therapy, 2018, 24, 286-291.	1.3	28
35	Analysis of hepatitis B virus infection in blood sera using Raman spectroscopy and machine learning. Photodiagnosis and Photodynamic Therapy, 2018, 23, 89-93.	1.3	88
36	Analysis of hepatitis C infection using Raman spectroscopy and proximity based classification in the transformed domain. Biomedical Optics Express, 2018, 9, 2041.	1.5	22

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37	Bio-inspired computational heuristics for Sisko fluid flow and heat transfer models. Applied Soft Computing Journal, 2018, 71, 622-648.	4.1	28
38	Optical screening of nasopharyngeal cancer using Raman spectroscopy and support vector machine. Optik, 2018, 157, 565-570.	1.4	27
39	Cortex-inspired multilayer hierarchy based object detection system using PHOG descriptors and ensemble classification. Visual Computer, 2017, 33, 99-112.	2.5	13
40	Robust image watermarking technique using triangular regions and Zernike moments for quantization based embedding. Multimedia Tools and Applications, 2017, 76, 8695-8710.	2.6	16
41	Two-phase deep convolutional neural network for reducing class skewness in histopathological images based breast cancer detection. Computers in Biology and Medicine, 2017, 85, 86-97.	3.9	124
42	Wind power prediction using deep neural network based meta regression and transfer learning. Applied Soft Computing Journal, 2017, 58, 742-755.	4.1	288
43	Random Forest-Based Evaluation of Raman Spectroscopy for Dengue Fever Analysis. Applied Spectroscopy, 2017, 71, 2111-2117.	1.2	36
44	Protection of medical images and patient related information in healthcare: Using an intelligent and reversible watermarking technique. Applied Soft Computing Journal, 2017, 51, 168-179.	4.1	49
45	Intelligent and robust prediction of short term wind power using genetic programming based ensemble of neural networks. Energy Conversion and Management, 2017, 134, 361-372.	4.4	173
46	Stabilized active camera tracking system. Journal of Real-Time Image Processing, 2016, 11, 315-334.	2.2	9
47	Analysis of dengue infection based on Raman spectroscopy and support vector machine (SVM). Biomedical Optics Express, 2016, 7, 2249.	1.5	96
48	Churn comprehension analysis for telecommunication industry using ALBA. , 2016, , .		4
49	Robust segmentation and intelligent decision system for cerebrovascular disease. Medical and Biological Engineering and Computing, 2016, 54, 1903-1920.	1.6	3
50	Protein subcellular localization of fluorescence microscopy images: Employing new statistical and Texton based image features and SVM based ensemble classification. Information Sciences, 2016, 345, 65-80.	4.0	25
51	Diverse and Discriminative Features Based Breast Cancer Detection Using Digital Mammography. , 2015, , .		4
52	Smart Phone Based Online Medicine Authentication Using Print-Cam Robust Watermarking. , 2015, , .		2
53	Automated colon cancer detection using hybrid of novel geometric features and some traditional features. Computers in Biology and Medicine, 2015, 65, 279-296.	3.9	70
54	High capacity reversible image watermarking using error expansion and contextâ€dependent embedding. Electronics Letters, 2015, 51, 985-987.	0.5	10

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55	Machine Learning based short term wind power prediction using a hybrid learning model. Computers and Electrical Engineering, 2015, 45, 122-133.	3.0	44
56	Activity recognition in smart homes with self verification of assignments. Neurocomputing, 2015, 149, 1286-1298.	3.5	40
57	Robust fuzzy RBF network based image segmentation and intelligent decision making system for carotid artery ultrasound images. Neurocomputing, 2015, 151, 745-755.	3.5	20
58	A New Hybrid Domain Based Print-Scan Resilient Image Watermarking Technique. , 2014, , .		1
59	Efficient and Supervised Anomalous Event Detection in Videos for Surveillance Purposes. , 2014, , .		1
60	Ensemble Based Efficient Churn Prediction Model for Telecom. , 2014, , .		6
61	GECC: Gene Expression Based Ensemble Classification of Colon Samples. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 1131-1145.	1.9	35
62	A high capacity reversible watermarking approach for authenticating images: Exploiting down-sampling, histogram processing, and block selection. Information Sciences, 2014, 256, 162-183.	4.0	58
63	IDM-PhyChm-Ens: Intelligent decision-making ensemble methodology for classification of human breast cancer using physicochemical properties of amino acids. Amino Acids, 2014, 46, 977-993.	1.2	22
64	Robust information gain based fuzzy c-means clustering and classification of carotid artery ultrasound images. Computer Methods and Programs in Biomedicine, 2014, 113, 593-609.	2.6	36
65	A recent survey of reversible watermarking techniques. Information Sciences, 2014, 279, 251-272.	4.0	202
66	Protein subcellular localization in human and hamster cell lines: Employing local ternary patterns of fluorescence microscopy images. Journal of Theoretical Biology, 2014, 340, 85-95.	0.8	14
67	Random-valued impulse noise removal from images: K-means and luo-statistics based detector and nonlocal means based estimator. , 2014, , .		2
68	DNA-LCEB: a high-capacity and mutation-resistant DNA data-hiding approach by employing encryption, error correcting codes, and hybrid twofold and fourfold codon-based strategy for synonymous substitution in amino acids. Medical and Biological Engineering and Computing, 2014, 52, 945-961.	1.6	4
69	Neuro fuzzy and punctual kriging based filter for image restoration. Applied Soft Computing Journal, 2013, 13, 817-832.	4.1	9
70	Dual-purpose semi-fragile watermark: Authentication and recovery of digital images. Computers and Electrical Engineering, 2013, 39, 2019-2030.	3.0	17
71	Genetic algorithm and difference expansion based reversible watermarking for relational databases. Journal of Systems and Software, 2013, 86, 2742-2753.	3.3	62
72	WRF-TMH: predicting transmembrane helix by fusing composition index and physicochemical properties of amino acids. Amino Acids, 2013, 44, 1317-1328.	1.2	24

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73	Subcellular localization using fluorescence imagery: Utilizing ensemble classification with diverse feature extraction strategies and data balancing. <i>Applied Soft Computing Journal</i> , 2013, 13, 4231-4243.	4.1	22
74	Predicting G-Protein-Coupled Receptors Families Using Different Physiochemical Properties and Pseudo Amino Acid Composition. <i>Methods in Enzymology</i> , 2013, 522, 61-79.	0.4	15
75	A novel approach for colon biopsy image segmentation. , 2013, , .		8
76	Intelligent churn prediction in telecom: employing mRMR feature selection and RotBoost based ensemble classification. <i>Applied Intelligence</i> , 2013, 39, 659-672.	3.3	49
77	Particle swarm optimization based object tracking using HOG features. , 2013, , .		5
78	Feature extraction and reduction strategy based on pyramid HOG and hierarchal exploitation of cortex-like mechanisms. , 2013, , .		3
79	MitProt-Pred: Predicting mitochondrial proteins of Plasmodium falciparum parasite using diverse physiochemical properties and ensemble classification. <i>Computers in Biology and Medicine</i> , 2013, 43, 1502-1511.	3.9	10
80	Protein subcellular localization of fluorescence imagery using spatial and transform domain features. <i>Bioinformatics</i> , 2012, 28, 91-97.	1.8	35
81	Identifying GPCRs and their Types with Chou's Pseudo Amino Acid Composition: An Approach from Multi-scale Energy Representation and Position Specific Scoring Matrix. <i>Protein and Peptide Letters</i> , 2012, 19, 890-903.	0.4	83
82	Intelligent reversible watermarking and authentication: Hiding depth map information for 3D cameras. <i>Information Sciences</i> , 2012, 216, 155-175.	4.0	35
83	Churn prediction in telecom using Random Forest and PSO based data balancing in combination with various feature selection strategies. <i>Computers and Electrical Engineering</i> , 2012, 38, 1808-1819.	3.0	85
84	Carotid artery image segmentation using modified spatial fuzzy c-means and ensemble clustering. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 108, 1261-1276.	2.6	52
85	Authentication of images for 3D cameras: Reversibly embedding information using intelligent approaches. <i>Journal of Systems and Software</i> , 2012, 85, 2665-2673.	3.3	6
86	Customer churn prediction for telecommunication: Employing various various features selection techniques and tree based ensemble classifiers. , 2012, , .		19
87	Discriminating Outer Membrane Proteins with Fuzzy K-Nearest Neighbor Algorithms Based on the General Form of Chou's PseAAC. <i>Protein and Peptide Letters</i> , 2012, 19, 411-421.	0.4	145
88	Performance improvement in image clustering using local discriminant model and global integration. , 2012, , .		0
89	GPCR-MPredictor: multi-level prediction of G protein-coupled receptors using genetic ensemble. <i>Amino Acids</i> , 2012, 42, 1809-1823.	1.2	38
90	Prediction of membrane proteins using split amino acid and ensemble classification. <i>Amino Acids</i> , 2012, 42, 2447-2460.	1.2	68

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91	Mem-PHybrid: Hybrid features-based prediction system for classifying membrane protein types. <i>Analytical Biochemistry</i> , 2012, 424, 35-44.	1.1	39
92	Intelligent reversible watermarking in integer wavelet domain for medical images. <i>Journal of Systems and Software</i> , 2012, 85, 883-894.	3.3	117
93	MemHyb: Predicting membrane protein types by hybridizing SAAC and PSSM. <i>Journal of Theoretical Biology</i> , 2012, 292, 93-102.	0.8	82
94	Mito-GSAAC: mitochondria prediction using genetic ensemble classifier and split amino acid composition. <i>Amino Acids</i> , 2012, 42, 1443-1454.	1.2	40
95	Browsed-Back Post Event Analyzer. , 2011, , .		0
96	Predicting lattice constant of complex cubic perovskites using computational intelligence. <i>Computational Materials Science</i> , 2011, 50, 1879-1888.	1.4	27
97	CE-PLoc: An ensemble classifier for predicting protein subcellular locations by fusing different modes of pseudo amino acid composition. <i>Computational Biology and Chemistry</i> , 2011, 35, 218-229.	1.1	34
98	G-protein-coupled receptor prediction using pseudo-amino-acid composition and multiscale energy representation of different physiochemical properties. <i>Analytical Biochemistry</i> , 2011, 412, 173-182.	1.1	23
99	Employing intelligence in the embedding and decoding stages of a robust watermarking system. <i>AEU - International Journal of Electronics and Communications</i> , 2011, 65, 582-588.	1.7	0
100	Predicting membrane protein types by fusing composite protein sequence features into pseudo amino acid composition. <i>Journal of Theoretical Biology</i> , 2011, 271, 10-17.	0.8	148
101	Reversible watermarking method based on adaptive thresholding and companding technique. <i>International Journal of Computer Mathematics</i> , 2011, 88, 1573-1594.	1.0	17
102	Prediction of GPCRs with Pseudo Amino Acid Composition: Employing Composite Features and Grey Incidence Degree Based Classification. <i>Protein and Peptide Letters</i> , 2011, 18, 872-878.	0.4	13
103	Digital image authentication and recovery: Employing integer transform based information embedding and extraction. <i>Information Sciences</i> , 2010, 180, 4909-4928.	4.0	55
104	Predicting protein subcellular location: exploiting amino acid based sequence of feature spaces and fusion of diverse classifiers. <i>Amino Acids</i> , 2010, 38, 347-350.	1.2	31
105	BCH coding and intelligent watermark embedding: Employing both frequency and strength selection. <i>Applied Soft Computing Journal</i> , 2010, 10, 332-343.	4.1	43
106	Authentication and recovery of images using multiple watermarks. <i>Computers and Electrical Engineering</i> , 2010, 36, 578-584.	3.0	71
107	A NONLINEAR TRANSFORM BASED THREE-DIMENSIONAL SHAPE RECOVERY FROM IMAGE FOCUS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2010, 24, 719-736.	0.7	5
108	Lattice constant prediction of cubic and monoclinic perovskites using neural networks and support vector regression. <i>Computational Materials Science</i> , 2010, 50, 363-372.	1.4	81

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109	Intelligent threshold selection for reversible watermarking of medical images. , 2010, , .		2
110	Authentication and recovery of digital images: Potential application in video surveillance and remote sensing. , 2009, , .		5
111	Correlating dynamical mechanical properties with temperature and clay composition of polymer-clay nanocomposites. Computational Materials Science, 2009, 45, 257-265.	1.4	48
112	Hiding depth map of an object in its 2D image: Reversible watermarking for 3D cameras. , 2009, , .		7
113	Dual watermarking method for secure image authentication and recovery. , 2009, , .		9
114	Intelligent Perceptual Shaping in Digital Watermarking. Studies in Computational Intelligence, 2009, , 115-139.	0.7	0
115	Shape from Focus Based on Bilateral Filtering and Principal Component Analysis. Advances in Intelligent and Soft Computing, 2009, , 453-462.	0.2	1
116	Perceptual Shaping in Digital Image Watermarking Using LDPC Codes and Genetic Programming. Advances in Intelligent and Soft Computing, 2009, , 509-518.	0.2	0
117	Machine learning based adaptive watermark decoding in view of anticipated attack. Pattern Recognition, 2008, 41, 2594-2610.	5.1	77
118	Predicting regularities in lattice constants of GdFeO ₃ -type perovskites. Acta Crystallographica Section B: Structural Science, 2008, 64, 120-122.	1.8	17
119	Proximity based GPCRs prediction in transform domain. Biochemical and Biophysical Research Communications, 2008, 371, 411-415.	1.0	26
120	G-protein Coupled Receptor Subfamilies Prediction Based on Nearest Neighbor Approach. , 2007, , .		0
121	Lattice constant prediction of orthorhombic ABO ₃ perovskites using support vector machines. Computational Materials Science, 2007, 39, 627-634.	1.4	52
122	A hybrid image restoration approach: Using fuzzy punctual kriging and genetic programming. International Journal of Imaging Systems and Technology, 2007, 17, 224-231.	2.7	7
123	Genetic perceptual shaping: Utilizing cover image and conceivable attack information during watermark embedding. Information Fusion, 2007, 8, 354-365.	11.7	74
124	Wavelet Based Image Authentication and Recovery. Journal of Computer Science and Technology, 2007, 22, 795-804.	0.9	30
125	Fusion of Visible and Thermal Images Using Support Vector Machines. , 2006, , .		4
126	Enhancing Contrast of Compressed Images: Reducing Block Artifacts Adaptively. , 2006, , .		3

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127	Intelligent perceptual shaping of a digital watermark: Exploiting Characteristics of human visual system. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2006, 10, 213-223.	0.7	13
128	A novel approach to decoding: Exploiting anticipated attack information using genetic programming. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2006, 10, 337-346.	0.7	8
129	Combination of support vector machines using genetic programming. International Journal of Hybrid Intelligent Systems, 2006, 3, 109-125.	0.9	43
130	Combination and optimization of classifiers in gender classification using genetic programming. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2005, 9, 1-11.	0.7	39
131	Combining Nearest Neighborhood Classifiers Using Genetic Programming. , 2005, , .		3
132	Churn Prediction System for Telecom using Filterâ€‘Wrapper and Ensemble Classification. Computer Journal, 0, , bxv123.	1.5	11
133	Classification and Region Analysis of COVID-19 Infection Using Lung CT Images and Deep Convolutional Neural Networks. SSRN Electronic Journal, 0, , .	0.4	1