Amira S Ashour

List of Publications by Year
in descending order

124 papers	3,899 citations	109137 35 h-index	143772 57 g-index
128 all docs	128 docs citations	128 times ranked	3077 citing authors

#	Article	IF	Citations
1	Particle swarm optimization trained neural network for structural failure prediction of multistoried RC buildings. Neural Computing and Applications, 2017, 28, 2005-2016.	3.2	232
2	Developing residential wireless sensor networks for ECG healthcare monitoring. IEEE Transactions on Consumer Electronics, 2017, 63, 442-449.	3.0	213
3	Multi-level image thresholding using Otsu and chaotic bat algorithm. Neural Computing and Applications, 2018, 29, 1285-1307.	3.2	166
4	Medical cyber-physical systems: A survey. Journal of Medical Systems, 2018, 42, 74.	2.2	147
5	Design of a proportional-integral-derivative controller for an automatic generation control of multi-area power thermal systems using firefly algorithm. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 503-515.	8.5	123
6	Automated stratification of liver disease in ultrasound: An online accurate feature classification paradigm. Computer Methods and Programs in Biomedicine, 2016, 130, 118-134.	2.6	121
7	Social Group Optimization Supported Segmentation and Evaluation of Skin Melanoma Images. Symmetry, 2018, 10, 51.	1.1	119
8	Modified cuckoo search algorithm in microscopic image segmentation of hippocampus. Microscopy Research and Technique, 2017, 80, 1051-1072.	1.2	98
9	Parameter Optimization for Local Polynomial Approximation based Intersection Confidence Interval Filter Using Genetic Algorithm: An Application for Brain MRI Image De-Noising. Journal of Imaging, 2015, 1, 60-84.	1.7	96
10	Application of flower pollination algorithm in load frequency control of multi-area interconnected power system with nonlinearity. Neural Computing and Applications, 2017, 28, 475-488.	3.2	89
11	A MapReduce approach to diminish imbalance parameters for big deoxyribonucleic acid dataset. Computer Methods and Programs in Biomedicine, 2016, 131, 191-206.	2.6	85
12	A survey of the state-of-the-arts on neutrosophic sets in biomedical diagnoses. International Journal of Machine Learning and Cybernetics, 2019, 10, 1-13.	2.3	78
13	Finding Contours of Hippocampus Brain Cell Using Microscopic Image Analysis. Journal of Advanced Microscopy Research, 2015, 10, 93-103.	0.3	74
14	Effect of fuzzy partitioning in Crohnâ€™s disease classification: a neuro-fuzzy-based approach. Medical and Biological Engineering and Computing, 2017, 55, 101-115.	1.6	73
15	Principal component analysis in medical image processing: a study. International Journal of Image Mining, 2015, 1, 65.	0.1	72
16	Internet of Things Based Wireless Body Area Network in Healthcare. Studies in Big Data, 2018, , 3-20.	0.8	71
17	Measurement of glomerulus diameter and Bowman's space width of renal albino rats. Computer Methods and Programs in Biomedicine, 2016, 126, 143-153.	2.6	64
18	Indian Sign Language Recognition Using Optimized Neural Networks. Advances in Intelligent Systems and Computing, 2017, , 553-563.	0.5	64

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19	Wireless Capsule Gastrointestinal Endoscopy: Direction-of-Arrival Estimation Based Localization Survey. IEEE Reviews in Biomedical Engineering, 2017, 10, 2-11.	13.1	62
20	Social group optimization for global optimization of multimodal functions and data clustering problems. Neural Computing and Applications, 2018, 30, 271-287.	3.2	62
21	Computed Tomography Image Enhancement Using Cuckoo Search: A Log Transform Based Approach. Journal of Signal and Information Processing, 2015, 06, 244-257.	0.8	61
22	An approach to examine Magnetic Resonance Angiography based on Tsallis entropy and deformable snake model. Future Generation Computer Systems, 2018, 85, 160-172.	4.9	56
23	Rule-based back propagation neural networks for various precision rough set presented KANSEI knowledge prediction: a case study on shoe product form features extraction. Neural Computing and Applications, 2017, 28, 613-630.	3.2	55
24	Classification of mice hepatic granuloma microscopic images based on a deep convolutional neural network. Applied Soft Computing Journal, 2019, 74, 40-50.	4.1	54
25	Discrete cuckoo search algorithms for two-sided robotic assembly line balancing problem. Neural Computing and Applications, 2018, 30, 2685-2696.	3.2	53
26	Neural-based prediction of structural failure of multistoried RC buildings. Structural Engineering and Mechanics, 2016, 58, 459-473.	1.0	52
27	An Integrated Interactive Technique for Image Segmentation using Stack based Seeded Region Growing and Thresholding. International Journal of Electrical and Computer Engineering, 2016, 6, 2773.	0.5	51
28	Long short term memory based patient-dependent model for FOG detection in Parkinson's disease. Pattern Recognition Letters, 2020, 131, 23-29.	2.6	47
29	Intelligent Computing in Medical Imaging. Advances in Data Mining and Database Management Book Series, 2018, , 143-163.	0.4	41
30	De-Bruijn graph with MapReduce framework towards metagenomic data classification. International Journal of Information Technology (Singapore), 2017, 9, 59-75.	1.8	40
31	A novel cumulative level difference mean based GLDM and modified ABCD features ranked using eigenvector centrality approach for four skin lesion types classification. Computer Methods and Programs in Biomedicine, 2018, 165, 163-174.	2.6	39
32	Image Fusion Incorporating Parameter Estimation Optimized Gaussian Mixture Model and Fuzzy Weighted Evaluation System: A Case Study in Time-Series Plantar Pressure Data Set. IEEE Sensors Journal, 2017, 17, 1407-1420.	2.4	38
33	A hybrid dermoscopy images segmentation approach based on neutrosophic clustering and histogram estimation. Applied Soft Computing Journal, 2018, 69, 426-434.	4.1	38
34	An Integrated Interactive Technique for Image Segmentation using Stack based Seeded Region Growing and Thresholding. International Journal of Electrical and Computer Engineering, 2016, 6, 2773.	0.5	37
35	A Novel Skin Lesion Detection Approach Using Neutrosophic Clustering and Adaptive Region Growing in Dermoscopy Images. Symmetry, 2018, 10, 119.	1.1	36
36	Clinical application of modified bag-of-features coupled with hybrid neural-based classifier in dengue fever classification using gene expression data. Medical and Biological Engineering and Computing, 2018, 56, 709-720.	1.6	33

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37	Application of cuckoo search in water quality prediction using artificial neural network. International Journal of Computational Intelligence Studies, 2017, 6, 229.	0.3	32
38	A novel optimized neutrosophic k-means using genetic algorithm for skin lesion detection in dermoscopy images. Signal, Image and Video Processing, 2018, 12, 1311-1318.	1.7	30
39	Video segmentation using minimum ratio similarity measurement. International Journal of Image Mining, 2015, 1, 87.	0.1	28
40	Dengue Fever Classification Using Gene Expression Data: A PSO Based Artificial Neural Network Approach. Advances in Intelligent Systems and Computing, 2017, , 331-341.	0.5	28
41	Evolutionary framework for coding area selection from cancer data. Neural Computing and Applications, 2018, 29, 1015-1037.	3.2	27
42	Histogram of Oriented Gradient Based Plantar Pressure Image Feature Extraction and Classification Employing Fuzzy Support Vector Machine. Journal of Medical Imaging and Health Informatics, 2018, 8, 842-854.	0.2	27
43	Image feature-based affective retrieval employing improved parameter and structure identification of adaptive neuro-fuzzy inference system. Neural Computing and Applications, 2018, 29, 1087-1102.	3.2	26
44	Gaussian mixture model for texture characterization with application to brain DTI images. Journal of Advanced Research, 2019, 16, 15-23.	4.4	26
45	FbMapping: AN AUTOMATED SYSTEM FOR MONITORING FACEBOOK DATA. Neural Network World, 2017, 27, 27-57.	0.5	26
46	Hidden Markov model and Chapman Kolmogrov for protein structures prediction from images. Computational Biology and Chemistry, 2017, 68, 231-244.	1.1	25
47	Gradient approximation in retinal blood vessel segmentation. , 2017, , .		25
48	Computing in Medical Image Analysis. , 2018, , 3-11.		25
49	Light microscopy image de-noising using optimized LPA-ICI filter. Neural Computing and Applications, 2018, 29, 1517-1533.	3.2	24
50	Optical pressure sensors based plantar image segmenting using an improved fully convolutional network. Optik, 2019, 179, 99-114.	1.4	24
51	Healthy and Unhealthy Rat Hippocampus Cells Classification: A Neural Based Automated System for Alzheimer Disease Classification. Journal of Advanced Microscopy Research, 2016, 11, 1-10.	0.3	24
52	Case-Based Reasoning for Product Style Construction and Fuzzy Analytic Hierarchy Process Evaluation Modeling Using Consumers Linguistic Variables. IEEE Access, 2017, 5, 4900-4912.	2.6	23
53	Discrete wavelet transform-based freezing of gait detection in Parkinsonâ€™s disease. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 543-559.	1.8	23
54	Mathematical models and migrating birds optimization for robotic U-shaped assembly line balancing problem. Neural Computing and Applications, 2019, 31, 9095-9111.	3.2	22

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55	Optimization of Non-rigid Demons Registration Using Cuckoo Search Algorithm. Cognitive Computation, 2017, 9, 817-826.	3.6	21
56	Combined empirical mode decomposition and texture features for skin lesion classification using quadratic support vector machine. Health Information Science and Systems, 2017, 5, 10.	3.4	21
57	Direction of Arrival Estimation and Localization of Multi-Speech Sources. Springer Briefs in Electrical and Computer Engineering, 2018, , .	0.3	21
58	Morphological segmenting and neighborhood pixel-based locality preserving projection on brain fMRI dataset for semantic feature extraction: an affective computing study. Neural Computing and Applications, 2018, 30, 3733-3748.	3.2	20
59	Nonparametric deâ€noising filter optimization using structureâ€based microscopic image classification. Microscopy Research and Technique, 2017, 80, 419-429.	1.2	19
60	Multi-modal classifier fusion with feature cooperation for glaucoma diagnosis. Journal of Experimental and Theoretical Artificial Intelligence, 2019, 31, 841-874.	1.8	19
61	Plantar pressure image fusion for comfort fusion in diabetes mellitus using an improved fuzzy hidden Markov model. Biocybernetics and Biomedical Engineering, 2019, 39, 742-752.	3.3	18
62	Texture analysis of parasitological liver fibrosis images. Microscopy Research and Technique, 2017, 80, 862-869.	1.2	17
63	Dual feature selection and rebalancing strategy using metaheuristic optimization algorithms in X-ray image datasets. Multimedia Tools and Applications, 2019, 78, 20913-20933.	2.6	17
64	Feature Selection of Non-Dermoscopic Skin Lesion Images for Nevus and Melanoma Classification. Computation, 2020, 8, 41.	1.0	17
65	Large Scale Medical Data Mining for Accurate Diagnosis: A Blueprint. Scalable Computing and Communications, 2017, , 157-176.	0.5	16
66	Deep-segmentation of plantar pressure images incorporating fully convolutional neural networks. Biocybernetics and Biomedical Engineering, 2020, 40, 546-558.	3.3	16
67	Texture anisotropy technique in brain degenerative diseases. Neural Computing and Applications, 2018, 30, 1667-1677.	3.2	15
68	Medical Imaging and Its Objective Quality Assessment: An Introduction. Lecture Notes in Computational Vision and Biomechanics, 2018, , 3-32.	0.5	15
69	Meta-KANSEI Modeling with Valence-Arousal fMRI Dataset of Brain. Cognitive Computation, 2019, 11, 227-240.	3.6	15
70	OCE-NGC: A neutrosophic graph cut algorithm using optimized clustering estimation algorithm for dermoscopic skin lesion segmentation. Applied Soft Computing Journal, 2020, 86, 105931.	4.1	15
71	Neutrosophic sets in dermoscopic medical image segmentation. , 2019, , 229-243.		14
72	Hybrid Non-Dominated Sorting Genetic Algorithm. Advances in Data Mining and Database Management Book Series, 2018, , 264-286.	0.4	14

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73	Automated System for Crops Recognition and Classification. , 2018, , 1208-1223.		14
74	Ant Colony Optimization Based Load Frequency Control of Multi-area Interconnected Thermal Power System with Governor Dead-Band Nonlinearity. Lecture Notes in Networks and Systems, 2018, , 157-167.	0.5	13
75	Quantum Inspired Evolutionary Algorithm in Load Frequency Control of Multi-area Interconnected Thermal Power System with Non-linearity. Studies in Big Data, 2018, , 389-417.	0.8	13
76	Challenges and Future Perspectives in Speech-Sources Direction of Arrival Estimation and Localization. Springer Briefs in Electrical and Computer Engineering, 2018, , 49-52.	0.3	13
77	Meta-Heuristic Algorithms in Medical Image Segmentation. Advances in Data Mining and Database Management Book Series, 2018, , 185-203.	0.4	13
78	A novel glomerular basement membrane segmentation using neutrsophic set and shearlet transform on microscopic images. Health Information Science and Systems, 2017, 5, 15.	3.4	12
79	Self-organizing mapping based swarm intelligence for secondary and tertiary proteins classification. International Journal of Machine Learning and Cybernetics, 2019, 10, 229-252.	2.3	12
80	Genetic algorithm-based initial contour optimization for skin lesion border detection. Multimedia Tools and Applications, 2021, 80, 2583-2597.	2.6	12
81	Thermal Imaging in Medical Science. Advances in Civil and Industrial Engineering Book Series, 0, , 87-117.	0.2	12
82	Sources Localization and DOAE Techniques of Moving Multiple Sources. Springer Briefs in Electrical and Computer Engineering, 2018, , 23-34.	0.3	11
83	Histogram Thresholding in Image Segmentation: A Joint Level Set Method and Lattice Boltzmann Method Based Approach. Advances in Intelligent Systems and Computing, 2017, , 529-539.	0.5	10
84	A new hybrid classifier selection model based on mRMR method and diversity measures. International Journal of Machine Learning and Cybernetics, 2019, 10, 1189-1204.	2.3	10
85	Neural Skyline Filtering for Imbalance Features Classification. International Journal of Computational Intelligence and Applications, 2017, 16, 1750019.	0.6	8
86	Diabetic plantar pressure analysis using image fusion. Multimedia Tools and Applications, 2020, 79, 11213-11236.	2.6	8
87	Robust feature selection algorithm based on transductive SVM wrapper and genetic algorithm: application on computer-aided glaucoma classification. International Journal of Intelligent Systems Technologies and Applications, 2018, 17, 310.	0.2	7
88	Electrical Energy Output Prediction Using Cuckoo Search Based Artificial Neural Network. Lecture Notes in Networks and Systems, 2018, , 277-285.	0.5	7
89	Efficient Economic Profit Maximization: Genetic Algorithm Based Approach. Lecture Notes in Networks and Systems, 2018, , 307-318.	0.5	6
90	Load Frequency Control of Hydro-Hydro System with Fuzzy Logic Controller Considering Non-linearity. Studies in Fuzziness and Soft Computing, 2018, , 307-318.	0.6	6

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91	Detection of Dead Stained Microscopic Cells Based on Color Intensity and Contrast. Advances in Intelligent Systems and Computing, 2016, , 57-68.	0.5	6
92	Deep Learning for Multimedia Content Analysis. , 2017, , 193-203.		6
93	Abdominal Imaging in Clinical Applications: Computer Aided Diagnosis Approaches. Studies in Computational Intelligence, 2016, , 3-17.	0.7	5
94	Optimised halftoning and inverse halftoning of dermoscopic images for supporting teledermoscopy system. IET Image Processing, 2019, 13, 529-536.	1.4	5
95	Neutrosophic multiple deep convolutional neural network for skin dermoscopic image classification. , 2019, , 269-285.		5
96	Grey-Wolf-Based Wangâ€™s Demons for Retinal Image Registration. Entropy, 2020, 22, 659.	1.1	5
97	Specialized Software System for Heart Rate Variability Analysis: An Implementation of Nonlinear Graphical Methods. Advances in Intelligent Systems and Computing, 2018, , 367-374.	0.5	5
98	Colored Video Analysis in Wireless Capsule Endoscopy: A Survey of State-of-the-Art. Current Medical Imaging, 2020, 16, 1074-1084.	0.4	5
99	Gene-Disease-Food Relation Extraction from Biomedical Database. Advances in Intelligent Systems and Computing, 2018, , 394-407.	0.5	5
100	Advanced optimization-based neutrosophic sets for medical image denoising. , 2019, , 101-121.		4
101	A Novel Neutrosophic Subsets Definition for Dermoscopic Image Segmentation. IEEE Access, 2019, 7, 151047-151053.	2.6	4
102	Neutrosophic set in medical image clustering. , 2019, , 167-187.		4
103	Thermal Imaging in Medical Science. , 2018, , 1109-1132.		4
104	Classifier Ensemble Selection Based on mRMR Algorithm and Diversity Measures: An Application of Medical Data Classification. Advances in Intelligent Systems and Computing, 2018, , 375-384.	0.5	3
105	Centroid tracking and velocity measurement of white blood cell in video. Health Information Science and Systems, 2018, 6, 20.	3.4	3
106	Investigation of DNA discontinuity for detecting tuberculosis. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 1149-1163.	3.3	3
107	Neutrosophic hough transform for blood cells nuclei detection. , 2019, , 207-227.		2
108	Brain Tissue Evaluation Based on Skeleton Shape and Similarity Analysis between Hemispheres. Computation, 2020, 8, 31.	1.0	2

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109	Recognition of Skin Diseases Using Curvelet Transforms and Law's Texture Energy Measures. Advances in Intelligent Systems and Computing, 2021, , 51-61.	0.5	2
110	Bag-of-Features in Microscopic Images Classification. , 2017, , 435-456.		2
111	Advanced neutrosophic sets in Microscopic Image Analysis. , 2019, , 31-50.		1
112	Automated image analysis system for renal filtration barrier integrity of potassium bromate treated adult male albino rat. Multimedia Tools and Applications, 2020, 79, 7559-7575.	2.6	1
113	An embedded novel compact feature profile image in speech signal for teledermoscopy system. Health Information Science and Systems, 2020, 8, 23.	3.4	1
114	Optimization-based neutrosophic set in computer-aided diagnosis. , 2020, , 405-421.		1
115	Schistosomal Hepatic Fibrosis Classification. International Journal of Natural Computing Research, 2018, 7, 1-17.	0.5	1
116	Cuckoo Search and Its Variants in Digital Image Processing: A Comprehensive Review. Springer Tracts in Nature-inspired Computing, 2021, , 1-20.	1.2	0
117	A hybrid shape-based image clustering using time-series analysis. Multimedia Tools and Applications, 2021, 80, 3793-3808.	2.6	0
118	Image-guided thermal ablation therapy. , 2021, , 411-440.		0
119	Optimization of Non-rigid Demons Registration Using Flower Pollination Algorithm. Springer Tracts in Nature-inspired Computing, 2021, , 25-44.	1.2	0
120	Intelligent Computing in Medical Imaging. , 2021, , 592-608.		0
121	Biological Data Mining:. , 2017, , 161-172.		0
122	Segmentation for Medical Image Mining. , 2017, , 147-160.		0
123	Knowledge Mining from Medical Images. , 2017, , 133-145.		0
124	Bag-of-Features in Microscopic Images Classification. Advances in Medical Technologies and Clinical Practice Book Series, 0, , 1-22.	0.3	0