

Pawel Plawiak

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,555
citations

21
h-index

39
g-index

52
ext. papers

2,146
ext. citations

4.7
avg, IF

6.11
L-index

#	Paper	IF	Citations
47	Real-Time Hand Gesture Recognition Using Fine-Tuned Convolutional Neural Network.. <i>Sensors</i> , 2022 , 22,	3.8	4
46	A novel Discrete Wavelet-Concatenated Mesh Tree and ternary chess pattern based ECG signal recognition method. <i>Biomedical Signal Processing and Control</i> , 2022 , 72, 103331	4.9	3
45	Cancelable ECG biometric based on combination of deep transfer learning with DNA and amino acid approaches for human authentication. <i>Information Sciences</i> , 2022 , 585, 127-143	7.7	1
44	Design of a Gabor Filter-Based Image Denoising Hardware Model. <i>Electronics (Switzerland)</i> , 2022 , 11, 1063	2.6	1
43	NCA-GA-SVM: A new two-level feature selection method based on neighborhood component analysis and genetic algorithm in hepatocellular carcinoma (HCC) fatality prognosis.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022 , e3599	2.6	0
42	Signal-piloted processing metaheuristic optimization and wavelet decomposition based elucidation of arrhythmia for mobile healthcare. <i>Biocybernetics and Biomedical Engineering</i> , 2022 , 42, 681-694	5.7	2
41	Smartphone-Based Human Sitting Behaviors Recognition Using Inertial Sensor. <i>Sensors</i> , 2021 , 21,	3.8	3
40	Hyperspectral Classification of Blood-Like Substances Using Machine Learning Methods Combined with Genetic Algorithms in Transductive and Inductive Scenarios. <i>Sensors</i> , 2021 , 21,	3.8	2
39	Epilepsy attacks recognition based on 1D octal pattern, wavelet transform and EEG signals. <i>Multimedia Tools and Applications</i> , 2021 , 80, 25197	2.5	5
38	Transmission Quality Classification with Use of Fusion of Neural Network and Genetic Algorithm in Pay&Require Multi-Agent Managed Network. <i>Sensors</i> , 2021 , 21,	3.8	2
37	Comparison of various approaches to combine logistic regression with genetic algorithms in survival prediction of hepatocellular carcinoma. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104431	7	7
36	Hybrid particle swarm optimization for rule discovery in the diagnosis of coronary artery disease. <i>Expert Systems</i> , 2021 , 38,	2.1	23
35	Development of accurate classification of heavenly bodies using novel machine learning techniques. <i>Soft Computing</i> , 2021 , 25, 7213-7228	3.5	1
34	Connectivity matrix model of quantum circuits and its application to distributed quantum circuit optimization. <i>Quantum Information Processing</i> , 2021 , 20, 1	1.6	1
33	Automated detection of shockable ECG signals: A review. <i>Information Sciences</i> , 2021 , 571, 580-604	7.7	7
32	BARF: A new direct and cross-based binary residual feature fusion with uncertainty-aware module for medical image classification. <i>Information Sciences</i> , 2021 , 577, 353-378	7.7	16
31	A novel approach based on genetic algorithm to speed up the discovery of classification rules on GPUs. <i>Knowledge-Based Systems</i> , 2021 , 231, 107419	7.3	0

30	Hybrid genetic-discretized algorithm to handle data uncertainty in diagnosing stenosis of coronary arteries. <i>Expert Systems</i> , 2020 ,	2.1	11
29	ResNet-Attention model for human authentication using ECG signals. <i>Expert Systems</i> , 2020 , 38, e12547	2.1	39
28	Ensemble residual network-based gender and activity recognition method with signals. <i>Journal of Supercomputing</i> , 2020 , 76, 2119-2138	2.5	24
27	Association between work-related features and coronary artery disease: A heterogeneous hybrid feature selection integrated with balancing approach. <i>Pattern Recognition Letters</i> , 2020 , 133, 33-40	4.7	39
26	Novel Methodology for Cardiac Arrhythmias Classification Based on Long-Duration ECG Signal Fragments Analysis. <i>Series in Bioengineering</i> , 2020 , 225-272	0.7	10
25	DGHNL: A new deep genetic hierarchical network of learners for prediction of credit scoring. <i>Information Sciences</i> , 2020 , 516, 401-418	7.7	62
24	Development of novel ensemble model using stacking learning and evolutionary computation techniques for automated hepatocellular carcinoma detection. <i>Biocybernetics and Biomedical Engineering</i> , 2020 , 40, 1512-1524	5.7	14
23	A mixed solution-based high agreement filtering method for class noise detection in binary classification. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 553, 124219	3.3	11
22	A novel facial image recognition method based on perceptual hash using quintet triple binary pattern. <i>Multimedia Tools and Applications</i> , 2020 , 79, 29573-29593	2.5	7
21	Novel deep genetic ensemble of classifiers for arrhythmia detection using ECG signals. <i>Neural Computing and Applications</i> , 2020 , 32, 11137-11161	4.8	84
20	Application of new deep genetic cascade ensemble of SVM classifiers to predict the Australian credit scoring. <i>Applied Soft Computing Journal</i> , 2019 , 84, 105740	7.5	74
19	Face Recognition with Triangular Fuzzy Set-Based Local Cross Patterns in Wavelet Domain. <i>Symmetry</i> , 2019 , 11, 787	2.7	10
18	IAPSO-AIRS: A novel improved machine learning-based system for wart disease treatment. <i>Journal of Medical Systems</i> , 2019 , 43, 220	5.1	29
17	A new machine learning technique for an accurate diagnosis of coronary artery disease. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 179, 104992	6.9	100
16	Automated arrhythmia detection using novel hexadecimal local pattern and multilevel wavelet transform with ECG signals. <i>Knowledge-Based Systems</i> , 2019 , 186, 104923	7.3	105
15	Improved Reference Image Encryption Methods Based on 2 K Correction in the Integer Wavelet Domain. <i>International Journal of Applied Mathematics and Computer Science</i> , 2019 , 29, 817-829	1.7	7
14	Towards Real-Time Heartbeat Classification: Evaluation of Nonlinear Morphological Features and Voting Method. <i>Sensors</i> , 2019 , 19,	3.8	29
13	A novel machine learning approach for early detection of hepatocellular carcinoma patients. <i>Cognitive Systems Research</i> , 2019 , 54, 116-127	4.8	63

12	Novel genetic ensembles of classifiers applied to myocardium dysfunction recognition based on ECG signals. <i>Swarm and Evolutionary Computation</i> , 2018 , 39, 192-208	9.8	95
11	Novel methodology of cardiac health recognition based on ECG signals and evolutionary-neural system. <i>Expert Systems With Applications</i> , 2018 , 92, 334-349	7.8	126
10	Application of Computational Intelligence Methods for the Automated Identification of Paper-Ink Samples Based on LIBS. <i>Sensors</i> , 2018 , 18,	3.8	22
9	Arrhythmia detection using deep convolutional neural network with long duration ECG signals. <i>Computers in Biology and Medicine</i> , 2018 , 102, 411-420	7	322
8	Person recognition based on touch screen gestures using computational intelligence methods. <i>Information Sciences</i> , 2017 , 415-416, 70-84	7.7	30
7	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1104-1113	11.9	63
6	An estimation of the state of consumption of a positive displacement pump based on dynamic pressure or vibrations using neural networks. <i>Neurocomputing</i> , 2014 , 144, 471-483	5.4	26
5	Approximation of Phenol Concentration Using Computational Intelligence Methods Based on Signals From the Metal-Oxide Sensor Array. <i>IEEE Sensors Journal</i> , 2014 , 1-1	4	7
4	Approximation of phenol concentration using novel hybrid computational intelligence methods. <i>International Journal of Applied Mathematics and Computer Science</i> , 2014 , 24, 165-181	1.7	31
3	Classification of tea specimens using novel hybrid artificial intelligence methods. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 117-125	8.5	29
2	Comparison of Artificial Intelligence Methods on the Example of Tea Classification Based on Signals from E-nose Sensors 2013 , 1, 19-32		5
1	A Brief Review on EEG Signal Pre-processing Techniques for Real-Time Brain-Computer Interface Applications		2