Pawel Plawiak

List of Publications by Citations

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	Arrhythmia detection using deep convolutional neural network with long duration ECG signals. *Computers in Biology and Medicine*, **2018**, 102, 411-420	7	322
46	Novel methodology of cardiac health recognition based on ECG signals and evolutionary-neural system. *Expert Systems With Applications*, **2018**, 92, 334-349	7.8	126
45	Automated arrhythmia detection using novel hexadecimal local pattern and multilevel wavelet transform with ECG signals. *Knowledge-Based Systems*, **2019**, 186, 104923	7.3	105
44	A new machine learning technique for an accurate diagnosis of coronary artery disease. *Computer Methods and Programs in Biomedicine*, **2019**, 179, 104992	6.9	100
43	Novel genetic ensembles of classifiers applied to myocardium dysfunction recognition based on ECG signals. *Swarm and Evolutionary Computation*, **2018**, 39, 192-208	9.8	95
42	Novel deep genetic ensemble of classifiers for arrhythmia detection using ECG signals. *Neural Computing and Applications*, **2020**, 32, 11137-11161	4.8	84
41	Application of new deep genetic cascade ensemble of SVM classifiers to predict the Australian credit scoring. *Applied Soft Computing Journal*, **2019**, 84, 105740	7.5	74
40	. *IEEE Transactions on Industrial Informatics*, **2016**, 12, 1104-1113	11.9	63
39	A novel machine learning approach for early detection of hepatocellular carcinoma patients. *Cognitive Systems Research*, **2019**, 54, 116-127	4.8	63
38	DGHNL: A new deep genetic hierarchical network of learners for prediction of credit scoring. *Information Sciences*, **2020**, 516, 401-418	7.7	62
37	ResNet-Attention model for human authentication using ECG signals. *Expert Systems*, **2020**, 38, e12547	2.1	39
36	Association between work-related features and coronary artery disease: A heterogeneous hybrid feature selection integrated with balancing approach. *Pattern Recognition Letters*, **2020**, 133, 33-40	4.7	39
35	Approximation of phenol concentration using novel hybrid computational intelligence methods. *International Journal of Applied Mathematics and Computer Science*, **2014**, 24, 165-181	1.7	31
34	Person recognition based on touch screen gestures using computational intelligence methods. *Information Sciences*, **2017**, 415-416, 70-84	7.7	30
33	IAPSO-AIRS: A novel improved machine learning-based system for wart disease treatment. *Journal of Medical Systems*, **2019**, 43, 220	5.1	29
32	Classification of tea specimens using novel hybrid artificial intelligence methods. *Sensors and Actuators B: Chemical*, **2014**, 192, 117-125	8.5	29
31	Towards Real-Time Heartbeat Classification: Evaluation of Nonlinear Morphological Features and Voting Method. *Sensors*, **2019**, 19,	3.8	29

30	An estimation of the state of consumption of a positive displacement pump based on dynamic pressure or vibrations using neural networks. *Neurocomputing*, **2014**, 144, 471-483	5.4	26
29	Ensemble residual network-based gender and activity recognition method with signals. *Journal of Supercomputing*, **2020**, 76, 2119-2138	2.5	24
28	Hybrid particle swarm optimization for rule discovery in the diagnosis of coronary artery disease. *Expert Systems*, **2021**, 38,	2.1	23
27	Application of Computational Intelligence Methods for the Automated Identification of Paper-Ink Samples Based on LIBS. *Sensors*, **2018**, 18,	3.8	22
26	BARF: A new direct and cross-based binary residual feature fusion with uncertainty-aware module for medical image classification. *Information Sciences*, **2021**, 577, 353-378	7.7	16
25	Development of novel ensemble model using stacking learning and evolutionary computation techniques for automated hepatocellular carcinoma detection. *Biocybernetics and Biomedical Engineering*, **2020**, 40, 1512-1524	5.7	14
24	Hybrid genetic-discretized algorithm to handle data uncertainty in diagnosing stenosis of coronary arteries. *Expert Systems*, **2020**,	2.1	11
23	A mixed solution-based high agreement filtering method for class noise detection in binary classification. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 553, 124219	3.3	11
22	Face Recognition with Triangular Fuzzy Set-Based Local Cross Patterns in Wavelet Domain. *Symmetry*, **2019**, 11, 787	2.7	10
21	Novel Methodology for Cardiac Arrhythmias Classification Based on Long-Duration ECG Signal Fragments Analysis. *Series in Bioengineering*, **2020**, 225-272	0.7	10
20	Approximation of Phenol Concentration Using Computational Intelligence Methods Based on Signals From the Metal-Oxide Sensor Array. *IEEE Sensors Journal*, **2014**, 1-1	4	7
19	A novel facial image recognition method based on perceptual hash using quintet triple binary pattern. *Multimedia Tools and Applications*, **2020**, 79, 29573-29593	2.5	7
18	Comparison of various approaches to combine logistic regression with genetic algorithms in survival prediction of hepatocellular carcinoma. *Computers in Biology and Medicine*, **2021**, 134, 104431	7	7
17	Improved Reference Image Encryption Methods Based on 2 K Correction in the Integer Wavelet Domain. *International Journal of Applied Mathematics and Computer Science*, **2019**, 29, 817-829	1.7	7
16	Automated detection of shockable ECG signals: A review. *Information Sciences*, **2021**, 571, 580-604	7.7	7
15	Comparison of Artificial Intelligence Methods on the Example of Tea Classification Based on Signals from E-nose Sensors **2013**, 1, 19-32		5
14	Epilepsy attacks recognition based on 1D octal pattern, wavelet transform and EEG signals. *Multimedia Tools and Applications*, **2021**, 80, 25197	2.5	5
13	Real-Time Hand Gesture Recognition Using Fine-Tuned Convolutional Neural Network.. *Sensors*, **2022**, 22,	3.8	4

12	A novel Discrete Wavelet-Concatenated Mesh Tree and ternary chess pattern based ECG signal recognition method. *Biomedical Signal Processing and Control*, **2022**, 72, 103331	4.9	3
11	Smartphone-Based Human Sitting Behaviors Recognition Using Inertial Sensor. *Sensors*, **2021**, 21,	3.8	3
10	Hyperspectral Classification of Blood-Like Substances Using Machine Learning Methods Combined with Genetic Algorithms in Transductive and Inductive Scenarios. *Sensors*, **2021**, 21,	3.8	2
9	Transmission Quality Classification with Use of Fusion of Neural Network and Genetic Algorithm in Pay&Require Multi-Agent Managed Network. *Sensors*, **2021**, 21,	3.8	2
8	A Brief Review on EEG Signal Pre-processing Techniques for Real-Time Brain-Computer Interface Applications		2
7	Signal-piloted processing metaheuristic optimization and wavelet decomposition based elucidation of arrhythmia for mobile healthcare. *Biocybernetics and Biomedical Engineering*, **2022**, 42, 681-694	5.7	2
6	Cancelable ECG biometric based on combination of deep transfer learning with DNA and amino acid approaches for human authentication. *Information Sciences*, **2022**, 585, 127-143	7.7	1
5	Development of accurate classification of heavenly bodies using novel machine learning techniques. *Soft Computing*, **2021**, 25, 7213-7228	3.5	1
4	Connectivity matrix model of quantum circuits and its application to distributed quantum circuit optimization. *Quantum Information Processing*, **2021**, 20, 1	1.6	1
3	Design of a Gabor Filter-Based Image Denoising Hardware Model. *Electronics (Switzerland)*, **2022**, 11, 1063	2.6	1
2	A novel approach based on genetic algorithm to speed up the discovery of classification rules on GPUs. *Knowledge-Based Systems*, **2021**, 231, 107419	7.3	0
1	NCA-GA-SVM: A new two-level feature selection method based on neighborhood component analysis and genetic algorithm in hepatocellular carcinoma (HCC) fatality prognosis.. *International Journal for Numerical Methods in Biomedical Engineering*, **2022**, e3599	2.6	0