

# Stanisław Osowski

## List of Publications by Year in descending order

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155  
papers

3,483  
citations

236925

25  
h-index

155660

55  
g-index

158  
all docs

158  
docs citations

158  
times ranked

3034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Random CNN structure: tool to increase generalization ability in deep learning. Eurasip Journal on Image and Video Processing, 2022, 2022, .	2.6	8
2	Neural Approaches to Short-Time Load Forecasting in Power Systems – A Comparative Study. Energies, 2022, 15, 3265.	3.1	4
3	Prediction of Air Pollution Using LSTM. Lecture Notes in Computer Science, 2021, , 208-219.	1.3	0
4	High Precision LSTM Model for Short-Time Load Forecasting in Power Systems. Energies, 2021, 14, 2983.	3.1	30
5	Hierarchical System of Gene Selection Based on Deep Learning and Ensemble Approach. , 2021, , .		0
6	Deep CNN ensemble for recognition of face images. , 2021, , .		2
7	Deep Learning Approach to Power Demand Forecasting in Polish Power System. Energies, 2020, 13, 6154.	3.1	8
8	Feature Selection Methods in Gene Recognition Problem. , 2020, , .		2
9	Anomaly detection in ECG using wavelet transformation. , 2020, , .		3
10	Data Mining of Electricity Consumption in Small Power Region. , 2018, , .		1
11	Local Dynamic Fusion for 24-Hour Load Pattern Prediction in Power System. , 2018, , .		0
12	Deep neural networks and classical approach to face recognition - comparative analysis. Przegląd Elektrotechniczny, 2018, 1, 3-6.	0.2	4
13	Gene selection in autism – Comparative study. Neurocomputing, 2017, 250, 37-44.	5.9	8
14	Deep learning and non-negative matrix factorization in recognition of mammograms. Proceedings of SPIE, 2017, , .	0.8	14
15	Ensemble of classifiers and wavelet transformation for improved recognition of Fuhrman grading in clear-cell renal carcinoma. Biocybernetics and Biomedical Engineering, 2017, 37, 357-364.	5.9	19
16	Novel methods of image description and ensemble of classifiers in application to mammogram analysis. Expert Systems With Applications, 2017, 81, 67-78.	7.6	27
17	Autoencoder versus PCA in face recognition. , 2017, , .		12
18	Transfer learning in recognition of drill wear using convolutional neural network. , 2017, , .		18

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19	Mining Data of Noisy Signal Patterns in Recognition of Gasoline Bio-Based Additives using Electronic Nose. Metrology and Measurement Systems, 2017, 24, 27-44.	1.4	5
20	Milk duct segmentation in microscopic HE images of breast cancer tissues. MATEC Web of Conferences, 2017, 125, 04013.	0.2	1
21	Diagnostic System of Drill Condition in Laminated Chipboard Drilling Process. MATEC Web of Conferences, 2017, 125, 04002.	0.2	2
22	Deep learning in assessment of drill condition on the basis of images of drilled holes. Proceedings of SPIE, 2017, , .	0.8	11
23	Localization of spots in FISH images of breast cancer using 3D shape analysis. Journal of Microscopy, 2016, 262, 252-259.	1.8	6
24	Developing automatic recognition system of drill wear in standard laminated chipboard drilling process. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2016, 64, 633-640.	0.8	13
25	Novel segmentation algorithm for identification of cell membrane staining in HER2 images. Pattern Recognition Letters, 2016, 84, 225-231.	4.2	6
26	Data mining methods for prediction of air pollution. International Journal of Applied Mathematics and Computer Science, 2016, 26, 467-478.	1.5	52
27	Particle swarm optimization in synthesis of electric circuits. , 2016, , .		0
28	Automatic recognition of drill condition on the basis of images of drilled holes. , 2016, , .		4
29	Fusion of FISH image analysis methods of HER2 status determination in breast cancer. Expert Systems With Applications, 2016, 61, 78-85.	7.6	9
30	Exploration of noisy data in differential electronic nose. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 1382-1392.	0.9	0
31	Aggregation of classifiers ensemble using local discriminatory power and quantiles. Expert Systems With Applications, 2016, 46, 316-323.	7.6	12
32	Computerized Classification System for the Identification of Soil Microorganisms. Applied Mathematics and Information Sciences, 2016, 10, 21-31.	0.5	5
33	Computerized System for Quantitative Assessment of Atherosclerotic Plaques in the Femoral and Iliac Arteries Visualized by Multislice Computed Tomography. IEEE Transactions on Biomedical Engineering, 2015, 62, 1490-1502.	4.2	4
34	Dynamic models of epidemic &#x2014; Preliminary study. , 2015, , .		0
35	Melanoma recognition using extended set of descriptors and classifiers. Eurasip Journal on Image and Video Processing, 2015, 2015, .	2.6	33
36	Computerized system for recognition of autism on the basis of gene expression microarray data. Computers in Biology and Medicine, 2015, 56, 82-88.	7.0	21

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37	Computerized classification system for the identification of soil microorganisms. AIP Conference Proceedings, 2015, , .	0.4	4
38	Data mining for feature selection in gene expression autism data. Expert Systems With Applications, 2015, 42, 864-872.	7.6	44
39	Texture characterization based on the Kolmogorov-Smirnov distance. Expert Systems With Applications, 2015, 42, 503-509.	7.6	14
40	Hourglass Shapes in Rank Grey-Level Hit-or-miss Transform for Membrane Segmentation in HER2/neu Images. Lecture Notes in Computer Science, 2015, , 3-14.	1.3	6
41	Thresholding techniques for segmentation of atherosclerotic plaque and lumen areas in vascular arteries. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2015, 63, 269-280.	0.8	4
42	Gradients and Active Contour Models for Localization of Cell Membrane in HER2/neu Images. Lecture Notes in Computer Science, 2015, , 432-444.	1.3	0
43	Nucleolus detection in the Fuhrman grading system for application in CCRC. Biomedizinische Technik, 2014, 59, 79-86.	0.8	2
44	Differential Electronic Nose in On-Line Dynamic Measurements. Metrology and Measurement Systems, 2014, 21, 649-662.	1.4	7
45	Data mining methods for gene selection on the basis of gene expression arrays. International Journal of Applied Mathematics and Computer Science, 2014, 24, 657-668.	1.5	7
46	Automatic Evaluation System of FISH Images in Breast Cancer. Lecture Notes in Computer Science, 2014, , 332-339.	1.3	9
47	Automatic recognition of industrial tools using artificial intelligence approach. Expert Systems With Applications, 2013, 40, 4777-4784.	7.6	7
48	Modified neuro-fuzzy TSK network and its application in electronic nose. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 675-680.	0.8	1
49	Ensemble of data mining methods for gene ranking. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2012, 60, 461-470.	0.8	11
50	Improving the accuracy of prediction of PM10 pollution by the wavelet transformation and an ensemble of neural predictors. Engineering Applications of Artificial Intelligence, 2012, 25, 1246-1258.	8.1	86
51	Multistage classification by using logistic regression and neural networks for assessment of financial condition of company. Decision Support Systems, 2012, 52, 539-547.	5.9	17
52	Differential electronic nose and support vector machine for fast recognition of tobacco. Expert Systems With Applications, 2012, 39, 9886-9891.	7.6	34
53	Metal oxide sensor arrays for detection of explosives at sub-parts-per million concentration levels by the differential electronic nose. Sensors and Actuators B: Chemical, 2012, 161, 528-533.	7.8	100
54	Recognition of Coffee Using Differential Electronic Nose. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1803-1810.	4.7	82

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55	Higher-order differentiation of network functions using signal flow graphs. International Journal of Circuit Theory and Applications, 2012, 40, 975-983.	2.0	0
56	Comparative Analysis of Feature Selection Methods for Blood Cell Recognition in Leukemia. Lecture Notes in Computer Science, 2012, , 467-481.	1.3	10
57	Signal flow graphs for determination of higher order sensitivities of circuit functions. , 2011, , .		5
58	Evolving the ensemble of predictors model for forecasting the daily average PM10. International Journal of Environment and Pollution, 2011, 46, 199.	0.2	10
59	Support Vector Machine for soft fault location in electrical circuits. Journal of Intelligent and Fuzzy Systems, 2011, 22, 21-31.	1.4	20
60	Neural system for heartbeats recognition using genetically integrated ensemble of classifiers. Computers in Biology and Medicine, 2011, 41, 173-180.	7.0	22
61	Neural predictors and wavelet transformation for forecasting the PM10 pollution. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1376-1388.	0.9	1
62	Methods of Integration of Ensemble of Neural Predictors of Time Series - Comparative Analysis. Lecture Notes in Computer Science, 2011, , 41-50.	1.3	2
63	Support vector machine for fault diagnosis of the broken rotor bars of squirrel-cage induction motor. Neural Computing and Applications, 2010, 19, 557-564.	5.6	50
64	Differential electronic nose of two chemo sensor arrays for odor discrimination. Sensors and Actuators B: Chemical, 2010, 145, 246-249.	7.8	26
65	Neural predictor ensemble for accurate forecasting of PM <sup>10</sup> pollution. , 2010, , .		8
66	Neural Network Ensemble for 24-Hour Load Pattern Prediction in Power System. Studies in Computational Intelligence, 2010, , 151-169.	0.9	1
67	New automated image analysis method for the assessment of Ki-67 labeling index in meningiomas.. Folia Histochemica Et Cytobiologica, 2010, 47, 587-92.	1.5	20
68	Prediction of Power Consumption for Small Power Region Using Indexing Approach and Neural Network. Lecture Notes in Computer Science, 2010, , 54-59.	1.3	1
69	Ensemble Neural Network Approach for Accurate Load Forecasting in a Power System. International Journal of Applied Mathematics and Computer Science, 2009, 19, 303-315.	1.5	65
70	Genetic algorithm for integration of ensemble of classifiers in arrhythmia recognition. , 2009, , .		2
71	Gene selection for cancer classification. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 231-241.	0.9	21
72	Single-class SVM and directed transfer function approach to the localization of the region containing epileptic focus. Neurocomputing, 2009, 72, 1575-1583.	5.9	17

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73	Application of Support Vector Machine and Genetic Algorithm for Improved Blood Cell Recognition. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2159-2168.	4.7	78
74	Recognition and classification of colon cells applying the ensemble of classifiers. Computers in Biology and Medicine, 2009, 39, 156-165.	7.0	8
75	Gene Selection for Cancer Classification through Ensemble of Methods. Lecture Notes in Computer Science, 2009, , 507-516.	1.3	5
76	Recognition and classification system of arrhythmia using ensemble of neural networks. Measurement: Journal of the International Measurement Confederation, 2008, 41, 610-617.	5.0	47
77	Smell similarity on the basis of gas sensor array measurements. Sensors and Actuators B: Chemical, 2008, 129, 643-651.	7.8	13
78	NEURAL METHODS OF CALIBRATION OF SENSORS FOR GAS MEASUREMENTS AND AROMA IDENTIFICATION SYSTEM. Journal of Sensory Studies, 2008, 23, 533-557.	1.6	7
79	Ensemble of neural predictors for forecasting the atmospheric pollution. , 2008, , .		3
80	Single-class SVM classifier for localization of epileptic focus on the basis of EEG. , 2008, , .		5
81	Epileptic seizure characterization by Lyapunov exponent of EEG signal. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 1276-1287.	0.9	28
82	Short Term Load Forecasting Model in the Power System Using Ensemble of Predictors. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	0
83	Recognition of Colon Cells Using Ensemble of Classifiers. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	5
84	Forecasting of the daily meteorological pollution using wavelets and support vector machine. Engineering Applications of Artificial Intelligence, 2007, 20, 745-755.	8.1	158
85	Chiral behavior of TGS gas sensors: Discrimination of the enantiomers by the electronic nose. Sensors and Actuators B: Chemical, 2007, 122, 493-502.	7.8	11
86	White Blood Cell Automatic Counting System Based on Support Vector Machine. Lecture Notes in Computer Science, 2007, , 318-326.	1.3	12
87	Epileptic Seizure Prediction Using Lyapunov Exponents and Support Vector Machine. Lecture Notes in Computer Science, 2007, , 373-381.	1.3	8
88	Support Vector Machine for Recognition of White Blood Cells of Leukaemia. , 2007, , 93-122.		5
89	Wavelets and Support Vector Machine for Forecasting the Meteorological Pollution. , 2006, , .		5
90	Classification of gasoline with supplement of bio-products by means of an electronic nose and SVM neural network. Sensors and Actuators B: Chemical, 2006, 113, 135-141.	7.8	47

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91	Support Vector Machine for Fault Diagnosis in Electrical Circuits. , 2006, , .		9
92	Integration of multiple neural classifiers for heart beat recognition. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 648-661.	0.9	1
93	Matrix method of sensitivity computation of linear networks. Electronics Letters, 2005, 41, 115.	1.0	1
94	Support Vector Machine for Recognition of Bio-products in Gasoline. Lecture Notes in Computer Science, 2005, , 899-904.	1.3	0
95	Recognition of Heartbeats Using Support Vector Machine Networks – A Comparative Study. Lecture Notes in Computer Science, 2005, , 637-642.	1.3	0
96	Support Vector Machine-Based Expert System for Reliable Heartbeat Recognition. IEEE Transactions on Biomedical Engineering, 2004, 51, 582-589.	4.2	420
97	Neuro-Fuzzy Network for Flavor Recognition and Classification. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 638-644.	4.7	13
98	Neuro-Fuzzy TSK Network for Calibration of Semiconductor Sensor Array for Gas Measurements. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 630-637.	4.7	17
99	Classification of milk by means of an electronic nose and SVM neural network. Sensors and Actuators B: Chemical, 2004, 98, 291-298.	7.8	171
100	Accurate Fault Location in the Power Transmission Line Using Support Vector Machine Approach. IEEE Transactions on Power Systems, 2004, 19, 979-986.	6.5	148
101	On-line heart beat recognition using hermite polynomials and neuro-fuzzy network. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 1224-1231.	4.7	146
102	Fault location in transmission line using hybrid neural network. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2002, 21, 18-30.	0.9	6
103	Higher order statistics and neural network for tremor recognition. IEEE Transactions on Biomedical Engineering, 2002, 49, 152-159.	4.2	66
104	Regularisation of neural networks for improved load forecasting in the power system. IET Generation, Transmission and Distribution, 2002, 149, 340.	1.1	14
105	Fourier and wavelet descriptors for shape recognition using neural networks—a comparative study. Pattern Recognition, 2002, 35, 1949-1957.	8.1	98
106	ECG beat recognition using fuzzy hybrid neural network. IEEE Transactions on Biomedical Engineering, 2001, 48, 1265-1271.	4.2	434
107	Fuzzy self-organizing hybrid neural network for gas analysis system. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 424-428.	4.7	6
108	Gas analysis system composed of a solid-state sensor array and hybrid neural network structure. Sensors and Actuators B: Chemical, 1999, 55, 38-46.	7.8	17

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109	Learning in dynamic neural networks using signal flow graphs. International Journal of Circuit Theory and Applications, 1999, 27, 209-228.	2.0	3
110	Shape recognition using FFT preprocessing and neural network. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1998, 17, 658-666.	0.9	5
111	Multilayer volterra filter and its applications. Neural Computing and Applications, 1996, 4, 228-236.	5.6	1
112	Fast Second Order Learning Algorithm for Feedforward Multilayer Neural Networks and its Applications. Neural Networks, 1996, 9, 1583-1596.	5.9	58
113	Neural network approach to the solution of linear complementarity problems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1995, 8, 431-445.	1.9	1
114	Signal flow graphs and neural networks. Biological Cybernetics, 1994, 70, 387-395.	1.3	17
115	SVD technique for estimation of harmonic components in a power system: a statistical approach. IET Generation, Transmission and Distribution, 1994, 141, 473.	1.1	41
116	Signal flow graphs and neural networks. Biological Cybernetics, 1994, 70, 387-395.	1.3	2
117	Neural networks in interpolation problems. Neurocomputing, 1993, 5, 105-118.	5.9	7
118	New approach to selection of initial values of weights in neural function approximation. Electronics Letters, 1993, 29, 313.	1.0	26
119	Neural network for estimation of harmonic components in a power system. IEE Proceedings C: Generation Transmission and Distribution, 1992, 139, 129.	0.3	113
120	Neural network for non-linear programming with linear equality constraints. International Journal of Circuit Theory and Applications, 1992, 20, 93-98.	2.0	3
121	Reply: Neural network for estimation of parameters of sinewave. Electronics Letters, 1992, 28, 1751.	1.0	2
122	Optimisation approach to the analysis of piecewise-linear convex circuits. IEE Proceedings, Part C: Circuits, Devices and Systems, 1992, 139, 295.	0.2	1
123	Non-linear diode ladder network. International Journal of Electronics, 1991, 70, 591-598.	1.4	0
124	Modelling of sinusoidal function for nonlinear signal processing applications. Electronics Letters, 1991, 27, 642.	1.0	2
125	Neural network for estimation of parameters of sinewave. Electronics Letters, 1990, 26, 689-691.	1.0	9
126	Design of nonlinear circuits using a numerical optimization method. International Journal of Electronics, 1989, 66, 93-108.	1.4	0



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127	Computer simulation of SC circuits using NAP. Electronics Letters, 1987, 23, 547-549.	1.0	1
128	Novel realisation of convertor-type gyrator. Electronics Letters, 1986, 22, 424.	1.0	0
129	Synthesis of voltage transfer matrix using universal building blocks. International Journal of Electronics, 1984, 57, 681-691.	1.4	0
130	Nonlinear resistive network synthesis. IEE Proceedings, Part G: Electronic Circuits and Systems, 1983, 130, 15.	0.2	0
131	Minimal realization of two-port parameters. International Journal of Electronics, 1982, 52, 217-229.	1.4	0
132	Nonlinear controlled elements and their applications. IEEE Transactions on Circuits and Systems, 1982, 29, 578-581.	0.9	1
133	Frequency-multiple generation technique using Chebyshev polynomials. Electronics Letters, 1980, 16, 91.	1.0	3
134	Reply: Synthesis of active RC multiport voltage transfer functions with reduced number of operational amplifiers. Electronics Letters, 1980, 16, 333.	1.0	0
135	Conductance matrix approach to the synthesis of active resistive $N$ -port networks. International Journal of Electronics, 1980, 48, 165-173.	1.4	0
136	Resistive hybrid matrix realisation using operational amplifiers. Electronics Letters, 1979, 15, 426.	1.0	3
137	Voltage transfer function realisation using active R network: flow-graph technique. Electronics Letters, 1979, 15, 416.	1.0	2
138	Rational admittance function realisation using two operational amplifiers. Electronics Letters, 1979, 15, 85.	1.0	0
139	Synthesis of $N$ -port networks by a matrix continuant. International Journal of Circuit Theory and Applications, 1979, 7, 77-86.	2.0	3
140	Realisation of resistive $N$ -port networks using operational amplifiers. Electronics Letters, 1978, 14, 412.	1.0	7
141	Synthesis of active RC multiport voltage transfer functions with reduced number of operational amplifiers. Electronics Letters, 1978, 14, 665.	1.0	2
142	Analogue simulation of the nonlinear transfer characteristics: a novel approach. IEE Journal on Electronic Circuits and Systems, 1978, 2, 26.	0.4	2
143	Analysis of active networks using flow-graph technique. Electronics Letters, 1978, 14, 227.	1.0	4
144	Synthesis of rational transfer matrices with active RC networks using equal valued grounded capacitors. International Journal of Electronics, 1977, 42, 229-239.	1.4	3

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145	Analysis of cascade connection of nonlike 2-ports. IEEE Transactions on Circuits and Systems, 1977, 24, 275-277.	0.9	0
146	Analysis of active ladder network by using coates flow graphs and continuants. International Journal for Numerical Methods in Engineering, 1977, 11, 900-904.	2.8	2
147	Synthesis of an arbitrary voltage transfer function. International Journal of Electronics, 1976, 41, 73-80.	1.4	2
148	Detection of remote harmonics using SVD. , 0, , .		8
149	Analysis of features for efficient ECG signal classification using neuro-fuzzy network. , 0, , .		7
150	OLS versus SVM approach to learning of RBF networks. , 0, , .		0
151	Lyapunov exponent of EEG signal for epileptic seizure characterization. , 0, , .		23
152	Automatic recognition of the blood cells of myelogenous leukemia using SVM. , 0, , .		41
153	Blind source separation for improved load forecasting in the power system. , 0, , .		1
154	Image Processing for Localization and Parameterization of the Glandular Ducts of Colon in Inflammatory Bowel Diseases. , 0, , 688-708.		0
155	Image Processing for Localization and Parameterization of the Glandular Ducts of Colon in Inflammatory Bowel Diseases. , 0, , 1-24.		0