

# Dalibor Petkovic

## 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.

127  
papers

4,587  
citations

39  
h-index

59  
g-index

176  
ext. papers

5,497  
ext. citations

5  
avg. IF

5.98  
L-index

#	Paper	IF	Citations
127	Identification of Important Parameters for Laser Photoresist Removal Process by ANFIS Methodology. <i>Mechanisms and Machine Science</i> , <b>2022</b> , 257-265	0.3	0
126	Adaptive Neuro Fuzzy Estimation of Processing Parameters Influence on the Performances of Plasma Arc Cutting Process. <i>Mechanisms and Machine Science</i> , <b>2022</b> , 249-255	0.3	0
125	Optimization of a plastic optical fiber based sensor for dye sensing coupled with an adapted neuro-fuzzy inference system.. <i>Applied Optics</i> , <b>2022</b> , 61, 2715-2720	1.7	0
124	Evaluation and monitoring of impact resistance of fiber reinforced concrete by adaptive neuro fuzzy algorithm. <i>Structures</i> , <b>2021</b> , 34, 3750-3756	3.4	3
123	E-learning perspectives in higher education institutions. <i>Technological Forecasting and Social Change</i> , <b>2021</b> , 166, 120618	9.5	14
122	Estimation of optimal fertilizers for optimal crop yield by adaptive neuro fuzzy logic. <i>Rhizosphere</i> , <b>2021</b> , 18, 100358	3.5	14
121	Neuro fuzzy estimation of the most influential parameters for Kusum biodiesel performance. <i>Energy</i> , <b>2021</b> , 229, 120621	7.9	10
120	Adaptive neuro fuzzy predictive models of agricultural biomass standard entropy and chemical exergy based on principal component analysis. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	6
119	Neuro-fuzzy estimation of reference crop evapotranspiration by neuro fuzzy logic based on weather conditions. <i>Computers and Electronics in Agriculture</i> , <b>2020</b> , 173, 105358	6.5	21
118	Selection of the most influential parameters on vectorial crystal growth of highly oriented vertically aligned carbon nanotubes by adaptive neuro-fuzzy technique. <i>International Journal of Hydromechatronics</i> , <b>2020</b> , 3, 238	4.2	17
117	Appraisal of information system for evaluation of kinetic parameters of biomass oxidation. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	4
116	E-monitoring of in vitro culture parameters for prediction of maximal biomass yields. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	1
115	Developing a hybrid adoptive neuro-fuzzy inference system in predicting safety of factors of slopes subjected to surface eco-protection techniques. <i>Engineering With Computers</i> , <b>2020</b> , 36, 1347-1354	4.5	12
114	Evaluation of information and communication technology sector in the teaching process and strategic collaboration between universities and industry. <i>Computer Applications in Engineering Education</i> , <b>2019</b> , 27, 653-662	1.6	8
113	Appraisal and review of e-learning and ICT systems in teaching process. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 513, 456-464	3.3	25
112	Object-oriented modeling approach of universal education software. <i>Computer Applications in Engineering Education</i> , <b>2018</b> , 26, 543-558	1.6	3
111	Statistical evaluation of mathematics lecture performances by soft computing approach. <i>Computer Applications in Engineering Education</i> , <b>2018</b> , 26, 902-905	1.6	25

110	Survey of quality models of e-learning systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 511, 324-330	3.3	11
109	Estimation of fractal representation of wind speed fluctuation by artificial neural network with different training algorithms. <i>Flow Measurement and Instrumentation</i> , <b>2017</b> , 54, 172-176	2.2	69
108	Precipitation concentration index management by adaptive neuro-fuzzy methodology. <i>Climatic Change</i> , <b>2017</b> , 141, 655-669	4.5	32
107	Prediction of laser welding quality by computational intelligence approaches. <i>Optik</i> , <b>2017</b> , 140, 597-600	2.5	51
106	Soft computing prediction of economic growth based in science and technology factors. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 465, 217-220	3.3	16
105	Predicting the reference evapotranspiration based on tensor decomposition. <i>Theoretical and Applied Climatology</i> , <b>2017</b> , 130, 1099-1109	3	7
104	Predicting turbulent flow friction coefficient using ANFIS technique. <i>Signal, Image and Video Processing</i> , <b>2017</b> , 11, 341-347	1.6	11
103	Wind speed parameters sensitivity analysis based on fractals and neuro-fuzzy selection technique. <i>Knowledge and Information Systems</i> , <b>2017</b> , 52, 255-265	2.4	73
102	Adaptive control algorithm of flexible robotic gripper by extreme learning machine. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2016</b> , 37, 170-178	9.2	34
101	Surface roughness prediction by extreme learning machine constructed with abrasive water jet. <i>Precision Engineering</i> , <b>2016</b> , 43, 86-92	2.9	46
100	Particle swarm optimization-based radial basis function network for estimation of reference evapotranspiration. <i>Theoretical and Applied Climatology</i> , <b>2016</b> , 125, 555-563	3	29
99	Thermal sensation prediction by soft computing methodology. <i>Journal of Thermal Biology</i> , <b>2016</b> , 62, 106-108	10.8	8
98	Analyzing of flexible gripper by computational intelligence approach. <i>Mechatronics</i> , <b>2016</b> , 40, 1-16	3	17
97	Selection of the most influential factors on the water-jet assisted underwater laser process by adaptive neuro-fuzzy technique. <i>Infrared Physics and Technology</i> , <b>2016</b> , 77, 45-50	2.7	34
96	Potential of neuro-fuzzy methodology to estimate noise level of wind turbines. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 66-67, 715-722	7.8	8
95	Extreme learning machine approach for sensorless wind speed estimation. <i>Mechatronics</i> , <b>2016</b> , 34, 78-83	3	41
94	Adaptive Neuro-Fuzzy Optimization of Wind Farm Project Investment Under Wake Effect <b>2016</b> , 265-281		
93	Hybrid auto-regressive neural network model for estimating global solar radiation in Bandar Abbas, Iran. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	13

92	Determining the most important variables for diffuse solar radiation prediction using adaptive neuro-fuzzy methodology; case study: City of Kerman, Iran. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 1570-1579	16.2	51
91	Application of adaptive neuro-fuzzy methodology for performance investigation of a power-augmented vertical axis wind turbine. <i>Energy</i> , <b>2016</b> , 102, 630-636	7.9	10
90	Assessing the proficiency of adaptive neuro-fuzzy system to estimate wind power density: Case study of Aligoodarz, Iran. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 59, 429-435	16.2	12
89	Neuro-fuzzy estimation of passive robotic joint safe velocity with embedded sensors of conductive silicone rubber. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 72-73, 486-498	7.8	3
88	Application and economic viability of wind turbine installation in Lutak, Iran. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	6
87	Improved side weir discharge coefficient modeling by adaptive neuro-fuzzy methodology. <i>KSCE Journal of Civil Engineering</i> , <b>2016</b> , 20, 2999-3005	1.9	7
86	Comparative study of clustering methods for wake effect analysis in wind farm. <i>Energy</i> , <b>2016</b> , 95, 573-579	9	27
85	Wind farm efficiency by adaptive neuro-fuzzy strategy. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2016</b> , 81, 215-221	5.1	83
84	Using ANFIS for selection of more relevant parameters to predict dew point temperature. <i>Applied Thermal Engineering</i> , <b>2016</b> , 96, 311-319	5.8	33
83	Evaluation of wind turbine noise by soft computing methodologies: A comparative study. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 56, 1122-1128	16.2	13
82	Prediction of heat load in district heating systems by Support Vector Machine with Firefly searching algorithm. <i>Energy</i> , <b>2016</b> , 95, 266-273	7.9	78
81	Selection of meteorological parameters affecting rainfall estimation using neuro-fuzzy computing methodology. <i>Atmospheric Research</i> , <b>2016</b> , 171, 21-30	5.4	17
80	Estimating the diffuse solar radiation using a coupled support vector machine-wavelet transform model. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 56, 428-435	16.2	68
79	Precipitation Estimation Using Support Vector Machine with Discrete Wavelet Transform. <i>Water Resources Management</i> , <b>2016</b> , 30, 641-652	3.7	33
78	Application of adaptive neuro-fuzzy methodology for estimating building energy consumption. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 1520-1528	16.2	41
77	Evaluating the legibility of decorative arabic scripts for Sultan Alauddin mosque using an enhanced soft-computing hybrid algorithm. <i>Computers in Human Behavior</i> , <b>2016</b> , 55, 127-144	7.7	3
76	Potential of adaptive neuro fuzzy inference system for evaluating the factors affecting steel-concrete composite beam's shear strength. <i>Steel and Composite Structures</i> , <b>2016</b> , 21, 679-688		122
75	ADAPTIVE NEURO-FUZZY COMPUTING TECHNIQUE FOR PRECIPITATION ESTIMATION. <i>Facta Universitatis, Series: Mechanical Engineering</i> , <b>2016</b> , 14, 209	3.2	16

74	Forecasting of Underactuated Robotic Finger Contact Forces by Support Vector Regression Methodology. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2016</b> , 30, 1659019	1.1	23
73	A combined method to estimate wind speed distribution based on integrating the support vector machine with firefly algorithm. <i>Environmental Progress and Sustainable Energy</i> , <b>2016</b> , 35, 867-875	2.5	24
72	A comparative study for estimation of wave height using traditional and hybrid soft-computing methods. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	15
71	Adaptation of ANFIS model to assess thermal comfort of an urban square in moderate and dry climate. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2016</b> , 30, 1189-1203	3.5	9
70	Estimation of Wind-Driven Coastal Waves Near a Mangrove Forest Using Adaptive Neuro-Fuzzy Inference System. <i>Water Resources Management</i> , <b>2016</b> , 30, 2391-2404	3.7	10
69	Estimation of the most influential factors on the laser cutting process heat affected zone (HAZ) by adaptive neuro-fuzzy technique. <i>Infrared Physics and Technology</i> , <b>2016</b> , 77, 12-15	2.7	20
68	Estimation of the laser cutting operating cost by support vector regression methodology. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	8
67	Evaluation of the most influential parameters of heat load in district heating systems. <i>Energy and Buildings</i> , <b>2015</b> , 104, 264-274	7	20
66	Heat load prediction in district heating systems with adaptive neuro-fuzzy method. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 48, 760-767	16.2	50
65	Adaptive neuro-fuzzy estimation of diffuser effects on wind turbine performance. <i>Energy</i> , <b>2015</b> , 89, 324-333	7.33	21
64	Performance investigation of micro- and nano-sized particle erosion in a 90°elbow using an ANFIS model. <i>Powder Technology</i> , <b>2015</b> , 284, 336-343	5.2	103
63	Sensitivity analysis of the discharge coefficient of a modified triangular side weir by adaptive neuro-fuzzy methodology. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2015</b> , 73, 74-81	4.6	18
62	Comparative Study of Soft Computing Methodologies for Energy Input/Output Analysis to Predict Potato Production. <i>American Journal of Potato Research</i> , <b>2015</b> , 92, 426-434	2.1	7
61	Prediction of ultrasonic pulse velocity for enhanced peat bricks using adaptive neuro-fuzzy methodology. <i>Ultrasonics</i> , <b>2015</b> , 61, 103-113	3.5	9
60	Prediction of contact forces of underactuated finger by adaptive neuro fuzzy approach. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 64-65, 520-527	7.8	11
59	Potential of adaptive neuro-fuzzy inference system for evaluation of drought indices. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2015</b> , 29, 1993-2002	3.5	9
58	A support vector machine-firefly algorithm-based model for global solar radiation prediction. <i>Solar Energy</i> , <b>2015</b> , 115, 632-644	6.8	217
57	Daily global solar radiation prediction from air temperatures using kernel extreme learning machine: A case study for Iran. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2015</b> , 134, 109-117	2	92

56	Estimation of the rutting performance of Polyethylene Terephthalate modified asphalt mixtures by adaptive neuro-fuzzy methodology. <i>Construction and Building Materials</i> , <b>2015</b> , 96, 550-555	6.7	24
55	Support vector machine firefly algorithm based optimization of lens system. <i>Applied Optics</i> , <b>2015</b> , 54, 37-45	1.7	17
54	Extreme learning machine based prediction of daily dew point temperature. <i>Computers and Electronics in Agriculture</i> , <b>2015</b> , 117, 214-225	6.5	74
53	Adaptive neuro-fuzzy approach for estimation of wind speed distribution. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 73, 389-392	5.1	28
52	A comparative evaluation for identifying the suitability of extreme learning machine to predict horizontal global solar radiation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 52, 1031-1042	16.2	92
51	Adaptive neuro-fuzzy approach for solar radiation prediction in Nigeria. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 1784-1791	16.2	115
50	Sensor Data Fusion by Support Vector Regression Methodology: A Comparative Study. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 850-854	4	55
49	Prediction of the solar radiation on the Earth using support vector regression technique. <i>Infrared Physics and Technology</i> , <b>2015</b> , 68, 179-185	2.7	46
48	Potential of support vector regression for optimization of lens system. <i>CAD Computer Aided Design</i> , <b>2015</b> , 62, 57-63	2.9	7
47	Appraisal of adaptive neuro-fuzzy computing technique for estimating anti-obesity properties of a medicinal plant. <i>Computer Methods and Programs in Biomedicine</i> , <b>2015</b> , 118, 69-76	6.9	17
46	Clustering project management for drought regions determination: A case study in Serbia. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 200, 57-65	5.8	22
45	Soft-Computing Methodologies for Precipitation Estimation: A Case Study. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2015</b> , 8, 1353-1358	4.7	23
44	Predicting the wind power density based upon extreme learning machine. <i>Energy</i> , <b>2015</b> , 86, 232-239	7.9	61
43	Soft computing approaches for forecasting reference evapotranspiration. <i>Computers and Electronics in Agriculture</i> , <b>2015</b> , 113, 164-173	6.5	106
42	Forecasting of consumers heat load in district heating systems using the support vector machine with a discrete wavelet transform algorithm. <i>Energy</i> , <b>2015</b> , 87, 343-351	7.9	70
41	Application of adaptive neuro-fuzzy technique to predict the unconfined compressive strength of PFA-sand-cement mixture. <i>Powder Technology</i> , <b>2015</b> , 278, 278-285	5.2	21
40	Determination of the most influential weather parameters on reference evapotranspiration by adaptive neuro-fuzzy methodology. <i>Computers and Electronics in Agriculture</i> , <b>2015</b> , 114, 277-284	6.5	48
39	Wind wake influence estimation on energy production of wind farm by adaptive neuro-fuzzy methodology. <i>Energy</i> , <b>2015</b> , 80, 361-372	7.9	33



38	Support vector regression based prediction of global solar radiation on a horizontal surface. <i>Energy Conversion and Management</i> , <b>2015</b> , 91, 433-441	10.6	130
37	Potential of adaptive neuro-fuzzy inference system for contact positions detection of sensing structure. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2015</b> , 61, 234-242	4.6	6
36	Soft methodology selection of wind turbine parameters to large affect wind energy conversion. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 69, 98-103	5.1	20
35	Examination of tapered plastic multimode fiber-based sensor performance with silver coating for different concentrations of calcium hypochlorite by soft computing methodologies--a comparative study. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2014</b> , 31, 1023-30	1.8	2
34	Adaptive neuro-fuzzy estimation of optimal lens system parameters. <i>Optics and Lasers in Engineering</i> , <b>2014</b> , 55, 84-93	4.6	23
33	Adaptive neuro-fuzzy estimation of building augmentation of wind turbine power. <i>Computers and Fluids</i> , <b>2014</b> , 97, 188-194	2.8	17
32	Adaptive neuro-fuzzy generalization of wind turbine wake added turbulence models. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 36, 270-276	16.2	18
31	Adaptive neuro-fuzzy maximal power extraction of wind turbine with continuously variable transmission. <i>Energy</i> , <b>2014</b> , 64, 868-874	7.9	152
30	Adaptive Neuro-Fuzzy Evaluation of the Tapered Plastic Multimode Fiber-Based Sensor Performance With and Without Silver Thin Film for Different Concentrations of Calcium Hypochlorite. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 3579-3584	4	6
29	Modulation transfer function estimation of optical lens system by adaptive neuro-fuzzy methodology. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2014</b> , 117, 121-131	0.7	2
28	An appraisal of wind turbine wake models by adaptive neuro-fuzzy methodology. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2014</b> , 63, 618-624	5.1	29
27	Co-FAIS: Cooperative fuzzy artificial immune system for detecting intrusion in wireless sensor networks. <i>Journal of Network and Computer Applications</i> , <b>2014</b> , 42, 102-117	7.9	71
26	Support vector regression methodology for wind turbine reaction torque prediction with power-split hydrostatic continuous variable transmission. <i>Energy</i> , <b>2014</b> , 67, 623-630	7.9	92
25	Adaptive Neuro-Fuzzy Appraisal of Plasmonic Studies on Morphology of Deposited Silver Thin Films Having Different Thicknesses. <i>Plasmonics</i> , <b>2014</b> , 9, 1189-1196	2.4	8
24	Determining the joints most strained in an underactuated robotic finger by adaptive neuro-fuzzy methodology. <i>Advances in Engineering Software</i> , <b>2014</b> , 77, 28-34	3.6	10
23	Survey of four models of probability density functions of wind speed and directions by adaptive neuro-fuzzy methodology. <i>Advances in Engineering Software</i> , <b>2014</b> , 76, 148-153	3.6	23
22	An appraisal of wind speed distribution prediction by soft computing methodologies: A comparative study. <i>Energy Conversion and Management</i> , <b>2014</b> , 84, 133-139	10.6	46
21	Adaptive neuro-fuzzy optimization of wind farm project net profit. <i>Energy Conversion and Management</i> , <b>2014</b> , 80, 229-237	10.6	26

20	Sensorless estimation of wind speed by adaptive neuro-fuzzy methodology. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2014</b> , 62, 490-495	5.1	28
19	Tuberculosis disease diagnosis using artificial immune recognition system. <i>International Journal of Medical Sciences</i> , <b>2014</b> , 11, 508-14	3.7	22
18	Adaptive neuro-fuzzy methodology for noise assessment of wind turbine. <i>PLoS ONE</i> , <b>2014</b> , 9, e103414	3.7	25
17	Adaptive neuro-fuzzy fusion of sensor data. <i>Infrared Physics and Technology</i> , <b>2014</b> , 67, 222-228	2.7	7
16	Contact positions estimation of sensing structure using adaptive neuro-fuzzy inference system. <i>Kybernetes</i> , <b>2014</b> , 43, 783-796	2	4
15	Adaptive neuro-fuzzy prediction of grasping object weight for passively compliant gripper. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 22, 424-431	7.5	19
14	Sensor elements made of conductive silicone rubber for passively compliant gripper. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 69, 1527-1536	3.2	27
13	Application of the TRIZ creativity enhancement approach to design of passively compliant robotic joint. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 67, 865-875	3.2	13
12	Intelligent rotational direction control of passive robotic joint with embedded sensors. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1265-1273	7.8	23
11	Adaptive neuro fuzzy estimation of underactuated robotic gripper contact forces. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 281-286	7.8	52
10	Adaptive neuro fuzzy selection of heart rate variability parameters affected by autonomic nervous system. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 4490-4495	7.8	41
9	Adaptive neuro-fuzzy approach for wind turbine power coefficient estimation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 28, 191-195	16.2	129
8	Development of a new type of passively adaptive compliant gripper. <i>Industrial Robot</i> , <b>2013</b> , 40, 610-623	1.4	42
7	Electrical properties estimation of conductive silicone rubber for tactile sensing structure. <i>Sensor Review</i> , <b>2013</b> , 33, 114-124	1.4	6
6	Design of compliant robotic joint with embedded-sensing elements of conductive silicone rubber. <i>Industrial Robot</i> , <b>2013</b> , 40, 143-157	1.4	9
5	Adaptive neuro-fuzzy estimation of conductive silicone rubber mechanical properties. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 9477-9482	7.8	88
4	Adaptive neuro-fuzzy estimation of autonomic nervous system parameters effect on heart rate variability. <i>Neural Computing and Applications</i> , <b>2012</b> , 21, 2065-2070	4.8	66
3	Adaptive neuro fuzzy controller for adaptive compliant robotic gripper. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 13295-13304	7.8	96



2	Passively Adaptive Compliant Gripper. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 162, 316-325	0.3	5
1	Application of hybrid learning algorithm for optimization of LED lens design. <i>Multimedia Tools and Applications</i> ,1	2.5	