

Dalibor Petkovic

List of Publications by Citations

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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	A support vector machine-firefly algorithm-based model for global solar radiation prediction. <i>Solar Energy</i> , 2015 , 115, 632-644	6.8	217
126	Adaptive neuro-fuzzy maximal power extraction of wind turbine with continuously variable transmission. <i>Energy</i> , 2014 , 64, 868-874	7.9	152
125	Support vector regression based prediction of global solar radiation on a horizontal surface. <i>Energy Conversion and Management</i> , 2015 , 91, 433-441	10.6	130
124	Adaptive neuro-fuzzy approach for wind turbine power coefficient estimation. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 28, 191-195	16.2	129
123	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> , 2016 , 21, 679-688		122
122	Adaptive neuro-fuzzy approach for solar radiation prediction in Nigeria. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 51, 1784-1791	16.2	115
121	Soft computing approaches for forecasting reference evapotranspiration. <i>Computers and Electronics in Agriculture</i> , 2015 , 113, 164-173	6.5	106
120	Performance investigation of micro- and nano-sized particle erosion in a 90° elbow using an ANFIS model. <i>Powder Technology</i> , 2015 , 284, 336-343	5.2	103
119	Adaptive neuro fuzzy controller for adaptive compliant robotic gripper. <i>Expert Systems With Applications</i> , 2012 , 39, 13295-13304	7.8	96
118	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> , 2015 , 134, 109-117	2	92
117	A comparative evaluation for identifying the suitability of extreme learning machine to predict horizontal global solar radiation. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 1031-1042	16.2	92
116	Support vector regression methodology for wind turbine reaction torque prediction with power-split hydrostatic continuous variable transmission. <i>Energy</i> , 2014 , 67, 623-630	7.9	92
115	Adaptive neuro-fuzzy estimation of conductive silicone rubber mechanical properties. <i>Expert Systems With Applications</i> , 2012 , 39, 9477-9482	7.8	88
114	Wind farm efficiency by adaptive neuro-fuzzy strategy. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 81, 215-221	5.1	83
113	Prediction of heat load in district heating systems by Support Vector Machine with Firefly searching algorithm. <i>Energy</i> , 2016 , 95, 266-273	7.9	78
112	Extreme learning machine based prediction of daily dew point temperature. <i>Computers and Electronics in Agriculture</i> , 2015 , 117, 214-225	6.5	74
111	Wind speed parameters sensitivity analysis based on fractals and neuro-fuzzy selection technique. <i>Knowledge and Information Systems</i> , 2017 , 52, 255-265	2.4	73

110	Co-FAIS: Cooperative fuzzy artificial immune system for detecting intrusion in wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2014 , 42, 102-117	7.9	71
109	Forecasting of consumers heat load in district heating systems using the support vector machine with a discrete wavelet transform algorithm. <i>Energy</i> , 2015 , 87, 343-351	7.9	70
108	Estimation of fractal representation of wind speed fluctuation by artificial neural network with different training algorithms. <i>Flow Measurement and Instrumentation</i> , 2017 , 54, 172-176	2.2	69
107	Estimating the diffuse solar radiation using a coupled support vector machine-wavelet transform model. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 56, 428-435	16.2	68
106	Adaptive neuro-fuzzy estimation of autonomic nervous system parameters effect on heart rate variability. <i>Neural Computing and Applications</i> , 2012 , 21, 2065-2070	4.8	66
105	Predicting the wind power density based upon extreme learning machine. <i>Energy</i> , 2015 , 86, 232-239	7.9	61
104	Sensor Data Fusion by Support Vector Regression Methodology A Comparative Study. <i>IEEE Sensors Journal</i> , 2015 , 15, 850-854	4	55
103	Adaptive neuro fuzzy estimation of underactuated robotic gripper contact forces. <i>Expert Systems With Applications</i> , 2013 , 40, 281-286	7.8	52
102	Prediction of laser welding quality by computational intelligence approaches. <i>Optik</i> , 2017 , 140, 597-600	2.5	51
101	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> , 2016 , 53, 1570-1579	16.2	51
100	Heat load prediction in district heating systems with adaptive neuro-fuzzy method. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 48, 760-767	16.2	50
99	Determination of the most influential weather parameters on reference evapotranspiration by adaptive neuro-fuzzy methodology. <i>Computers and Electronics in Agriculture</i> , 2015 , 114, 277-284	6.5	48
98	Surface roughness prediction by extreme learning machine constructed with abrasive water jet. <i>Precision Engineering</i> , 2016 , 43, 86-92	2.9	46
97	Prediction of the solar radiation on the Earth using support vector regression technique. <i>Infrared Physics and Technology</i> , 2015 , 68, 179-185	2.7	46
96	An appraisal of wind speed distribution prediction by soft computing methodologies: A comparative study. <i>Energy Conversion and Management</i> , 2014 , 84, 133-139	10.6	46
95	Development of a new type of passively adaptive compliant gripper. <i>Industrial Robot</i> , 2013 , 40, 610-623	1.4	42
94	Extreme learning machine approach for sensorless wind speed estimation. <i>Mechatronics</i> , 2016 , 34, 78-83		41
93	Application of adaptive neuro-fuzzy methodology for estimating building energy consumption. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 1520-1528	16.2	41

92	Adaptive neuro fuzzy selection of heart rate variability parameters affected by autonomic nervous system. <i>Expert Systems With Applications</i> , 2013 , 40, 4490-4495	7.8	41
91	Adaptive control algorithm of flexible robotic gripper by extreme learning machine. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016 , 37, 170-178	9.2	34
90	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> , 2016 , 77, 45-50	2.7	34
89	Using ANFIS for selection of more relevant parameters to predict dew point temperature. <i>Applied Thermal Engineering</i> , 2016 , 96, 311-319	5.8	33
88	Precipitation Estimation Using Support Vector Machine with Discrete Wavelet Transform. <i>Water Resources Management</i> , 2016 , 30, 641-652	3.7	33
87	Wind wake influence estimation on energy production of wind farm by adaptive neuro-fuzzy methodology. <i>Energy</i> , 2015 , 80, 361-372	7.9	33
86	Precipitation concentration index management by adaptive neuro-fuzzy methodology. <i>Climatic Change</i> , 2017 , 141, 655-669	4.5	32
85	Particle swarm optimization-based radial basis function network for estimation of reference evapotranspiration. <i>Theoretical and Applied Climatology</i> , 2016 , 125, 555-563	3	29
84	An appraisal of wind turbine wake models by adaptive neuro-fuzzy methodology. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 63, 618-624	5.1	29
83	Adaptive neuro-fuzzy approach for estimation of wind speed distribution. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 73, 389-392	5.1	28
82	Sensorless estimation of wind speed by adaptive neuro-fuzzy methodology. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 62, 490-495	5.1	28
81	Comparative study of clustering methods for wake effect analysis in wind farm. <i>Energy</i> , 2016 , 95, 573-579	9.9	27
80	Sensor elements made of conductive silicone rubber for passively compliant gripper. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 69, 1527-1536	3.2	27
79	Adaptive neuro-fuzzy optimization of wind farm project net profit. <i>Energy Conversion and Management</i> , 2014 , 80, 229-237	10.6	26
78	Statistical evaluation of mathematics lecture performances by soft computing approach. <i>Computer Applications in Engineering Education</i> , 2018 , 26, 902-905	1.6	25
77	Adaptive neuro-fuzzy methodology for noise assessment of wind turbine. <i>PLoS ONE</i> , 2014 , 9, e103414	3.7	25
76	Appraisal and review of e-learning and ICT systems in teaching process. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 513, 456-464	3.3	25
75	Estimation of the rutting performance of Polyethylene Terephthalate modified asphalt mixtures by adaptive neuro-fuzzy methodology. <i>Construction and Building Materials</i> , 2015 , 96, 550-555	6.7	24

74	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> , 2016 , 35, 867-875	2.5	24
73	Adaptive neuro-fuzzy estimation of optimal lens system parameters. <i>Optics and Lasers in Engineering</i> , 2014 , 55, 84-93	4.6	23
72	Survey of four models of probability density functions of wind speed and directions by adaptive neuro-fuzzy methodology. <i>Advances in Engineering Software</i> , 2014 , 76, 148-153	3.6	23
71	Intelligent rotational direction control of passive robotic joint with embedded sensors. <i>Expert Systems With Applications</i> , 2013 , 40, 1265-1273	7.8	23
70	Soft-Computing Methodologies for Precipitation Estimation: A Case Study. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 1353-1358	4.7	23
69	Forecasting of Underactuated Robotic Finger Contact Forces by Support Vector Regression Methodology. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2016 , 30, 1659019	1.1	23
68	Clustering project management for drought regions determination: A case study in Serbia. <i>Agricultural and Forest Meteorology</i> , 2015 , 200, 57-65	5.8	22
67	Tuberculosis disease diagnosis using artificial immune recognition system. <i>International Journal of Medical Sciences</i> , 2014 , 11, 508-14	3.7	22
66	Adaptive neuro-fuzzy estimation of diffuser effects on wind turbine performance. <i>Energy</i> , 2015 , 89, 324-333	7.9	21
65	Neuro-fuzzy estimation of reference crop evapotranspiration by neuro fuzzy logic based on weather conditions. <i>Computers and Electronics in Agriculture</i> , 2020 , 173, 105358	6.5	21
64	Application of adaptive neuro-fuzzy technique to predict the unconfined compressive strength of PFA-sand-cement mixture. <i>Powder Technology</i> , 2015 , 278, 278-285	5.2	21
63	Evaluation of the most influential parameters of heat load in district heating systems. <i>Energy and Buildings</i> , 2015 , 104, 264-274	7	20
62	Soft methodology selection of wind turbine parameters to large affect wind energy conversion. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 69, 98-103	5.1	20
61	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> , 2016 , 77, 12-15	2.7	20
60	Adaptive neuro-fuzzy prediction of grasping object weight for passively compliant gripper. <i>Applied Soft Computing Journal</i> , 2014 , 22, 424-431	7.5	19
59	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> , 2015 , 73, 74-81	4.6	18
58	Adaptive neuro-fuzzy generalization of wind turbine wake added turbulence models. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 36, 270-276	16.2	18
57	Support vector machine firefly algorithm based optimization of lens system. <i>Applied Optics</i> , 2015 , 54, 37-45	1.7	17

56	Appraisal of adaptive neuro-fuzzy computing technique for estimating anti-obesity properties of a medicinal plant. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 118, 69-76	6.9	17
55	Analyzing of flexible gripper by computational intelligence approach. <i>Mechatronics</i> , 2016 , 40, 1-16	3	17
54	Selection of meteorological parameters affecting rainfall estimation using neuro-fuzzy computing methodology. <i>Atmospheric Research</i> , 2016 , 171, 21-30	5.4	17
53	Adaptive neuro-fuzzy estimation of building augmentation of wind turbine power. <i>Computers and Fluids</i> , 2014 , 97, 188-194	2.8	17
52	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> , 2020 , 3, 238	4.2	17
51	Soft computing prediction of economic growth based in science and technology factors. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 465, 217-220	3.3	16
50	ADAPTIVE NEURO-FUZZY COMPUTING TECHNIQUE FOR PRECIPITATION ESTIMATION. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2016 , 14, 209	3.2	16
49	A comparative study for estimation of wave height using traditional and hybrid soft-computing methods. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	15
48	E-learning perspectives in higher education institutions. <i>Technological Forecasting and Social Change</i> , 2021 , 166, 120618	9.5	14
47	Estimation of optimal fertilizers for optimal crop yield by adaptive neuro fuzzy logic. <i>Rhizosphere</i> , 2021 , 18, 100358	3.5	14
46	Hybrid auto-regressive neural network model for estimating global solar radiation in Bandar Abbas, Iran. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	13
45	Evaluation of wind turbine noise by soft computing methodologies: A comparative study. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 56, 1122-1128	16.2	13
44	Application of the TRIZ creativity enhancement approach to design of passively compliant robotic joint. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 67, 865-875	3.2	13
43	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> , 2016 , 59, 429-435	16.2	12
42	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> , 2020 , 36, 1347-1354	4.5	12
41	Prediction of contact forces of underactuated finger by adaptive neuro fuzzy approach. <i>Mechanical Systems and Signal Processing</i> , 2015 , 64-65, 520-527	7.8	11
40	Survey of quality models of e-learning systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 511, 324-330	3.3	11
39	Predicting turbulent flow friction coefficient using ANFIS technique. <i>Signal, Image and Video Processing</i> , 2017 , 11, 341-347	1.6	11

38	Application of adaptive neuro-fuzzy methodology for performance investigation of a power-augmented vertical axis wind turbine. <i>Energy</i> , 2016 , 102, 630-636	7.9	10
37	Determining the joints most strained in an underactuated robotic finger by adaptive neuro-fuzzy methodology. <i>Advances in Engineering Software</i> , 2014 , 77, 28-34	3.6	10
36	Estimation of Wind-Driven Coastal Waves Near a Mangrove Forest Using Adaptive Neuro-Fuzzy Inference System. <i>Water Resources Management</i> , 2016 , 30, 2391-2404	3.7	10
35	Neuro fuzzy estimation of the most influential parameters for Kusum biodiesel performance. <i>Energy</i> , 2021 , 229, 120621	7.9	10
34	Prediction of ultrasonic pulse velocity for enhanced peat bricks using adaptive neuro-fuzzy methodology. <i>Ultrasonics</i> , 2015 , 61, 103-13	3.5	9
33	Potential of adaptive neuro-fuzzy inference system for evaluation of drought indices. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 1993-2002	3.5	9
32	Design of compliant robotic joint with embedded-sensing elements of conductive silicone rubber. <i>Industrial Robot</i> , 2013 , 40, 143-157	1.4	9
31	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> , 2016 , 30, 1189-1203	3.5	9
30	Thermal sensation prediction by soft computing methodology. <i>Journal of Thermal Biology</i> , 2016 , 62, 1062-108	10	8
29	Potential of neuro-fuzzy methodology to estimate noise level of wind turbines. <i>Mechanical Systems and Signal Processing</i> , 2016 , 66-67, 715-722	7.8	8
28	Adaptive Neuro-Fuzzy Appraisal of Plasmonic Studies on Morphology of Deposited Silver Thin Films Having Different Thicknesses. <i>Plasmonics</i> , 2014 , 9, 1189-1196	2.4	8
27	Estimation of the laser cutting operating cost by support vector regression methodology. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	8
26	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> , 2019 , 27, 653-662	1.6	8
25	Comparative Study of Soft Computing Methodologies for Energy Input/Output Analysis to Predict Potato Production. <i>American Journal of Potato Research</i> , 2015 , 92, 426-434	2.1	7
24	Potential of support vector regression for optimization of lens system. <i>CAD Computer Aided Design</i> , 2015 , 62, 57-63	2.9	7
23	Improved side weir discharge coefficient modeling by adaptive neuro-fuzzy methodology. <i>KSCE Journal of Civil Engineering</i> , 2016 , 20, 2999-3005	1.9	7
22	Predicting the reference evapotranspiration based on tensor decomposition. <i>Theoretical and Applied Climatology</i> , 2017 , 130, 1099-1109	3	7
21	Adaptive neuro-fuzzy fusion of sensor data. <i>Infrared Physics and Technology</i> , 2014 , 67, 222-228	2.7	7

20	Adaptive neuro fuzzy predictive models of agricultural biomass standard entropy and chemical exergy based on principal component analysis. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	6
19	Application and economic viability of wind turbine installation in Lutak, Iran. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	6
18	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> , 2014 , 14, 3579-3584	4	6
17	Potential of adaptive neuro-fuzzy inference system for contact positions detection of sensing structure. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 61, 234-242	4.6	6
16	Electrical properties estimation of conductive silicone rubber for tactile sensing structure. <i>Sensor Review</i> , 2013 , 33, 114-124	1.4	6
15	Passively Adaptive Compliant Gripper. <i>Applied Mechanics and Materials</i> , 2012 , 162, 316-325	0.3	5
14	Contact positions estimation of sensing structure using adaptive neuro-fuzzy inference system. <i>Kybernetes</i> , 2014 , 43, 783-796	2	4
13	Appraisal of information system for evaluation of kinetic parameters of biomass oxidation. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	4
12	Object-oriented modeling approach of universal education software. <i>Computer Applications in Engineering Education</i> , 2018 , 26, 543-558	1.6	3
11	Neuro-fuzzy estimation of passive robotic joint safe velocity with embedded sensors of conductive silicone rubber. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 486-498	7.8	3
10	Evaluating the legibility of decorative arabic scripts for Sultan Alauddin mosque using an enhanced soft-computing hybrid algorithm. <i>Computers in Human Behavior</i> , 2016 , 55, 127-144	7.7	3
9	Evaluation and monitoring of impact resistance of fiber reinforced concrete by adaptive neuro fuzzy algorithm. <i>Structures</i> , 2021 , 34, 3750-3756	3.4	3
8	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> , 2014 , 31, 1023-30	1.8	2
7	Modulation transfer function estimation of optical lens system by adaptive neuro-fuzzy methodology. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2014 , 117, 121-131	9.7	2
6	E-monitoring of in vitro culture parameters for prediction of maximal biomass yields. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	1
5	Identification of Important Parameters for Laser Photoresist Removal Process by ANFIS Methodology. <i>Mechanisms and Machine Science</i> , 2022 , 257-265	0.3	0
4	Adaptive Neuro Fuzzy Estimation of Processing Parameters Influence on the Performances of Plasma Arc Cutting Process. <i>Mechanisms and Machine Science</i> , 2022 , 249-255	0.3	0
3	Optimization of a plastic optical fiber based sensor for dye sensing coupled with an adapted neuro-fuzzy inference system.. <i>Applied Optics</i> , 2022 , 61, 2715-2720	1.7	0

2 Adaptive Neuro-Fuzzy Optimization of Wind Farm Project Investment Under Wake Effect **2016**, 265-281

1 Application of hybrid learning algorithm for optimization of LED lens design. *Multimedia Tools and Applications*,1 2.5