D Andina

List of Publications by Year
in descending order

127	1,209	623574	526166
papers	citations	14 h-index	27 g-index

137	137	137	1056
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	WBCD breast cancer database classification applying artificial metaplasticity neural network. Expert Systems With Applications, 2011, 38, 9573-9579.	4.4	154
2	Feature selection using Sequential Forward Selection and classification applying Artificial Metaplasticity Neural Network. , 2010, , .		109
3	Distributed Bees Algorithm for Task Allocation in Swarm of Robots. IEEE Systems Journal, 2012, 6, 296-304.	2.9	80
4	Development of a model for forecasting of PM 10 concentrations in Salamanca, Mexico. Atmospheric Pollution Research, 2015, 6, 626-634.	1.8	56
5	Pore network complexity and thresholding of 3D soil images. Ecological Complexity, 2009, 6, 230-239.	1.4	51
6	Application of Neural Networks. , 2007, , 93-108.		46
7	ARTIFICIAL METAPLASTICITY NEURAL NETWORK APPLIED TO CREDIT SCORING. International Journal of Neural Systems, 2011, 21, 311-317.	3.2	43
8	Breast cancer classification applying artificial metaplasticity algorithm. Neurocomputing, 2011, 74, 1243-1250.	3.5	40
9	Detection of pore space in CT soil images using artificial neural networks. Biogeosciences, 2011, 8, 279-288.	1.3	35
10	Image segmentation by fuzzy and possibilistic clustering algorithms for the identification of microcalcifications. Scientia Iranica, 2011, 18, 580-589.	0.3	30
11	Identification of pore spaces in 3D CT soil images using PFCM partitional clustering. Geoderma, 2014, 217-218, 90-101.	2.3	29
12	Ant based edge linking algorithm. , 2009, , .		22
13	Edge detection using ant colony search algorithm and multiscale contrast enhancement. , 2009, , .		20
14	Do biological synapses perform probabilistic computations?. Neurocomputing, 2013, 114, 24-31.	3.5	20
15	Quantifying a soil pore distribution from 3D images: Multifractal spectrum through wavelet approach. Geoderma, 2010, 155, 203-210.	2.3	19
16	Wood defects classification using Artificial Metaplasticity neural network. , 2009, , .		17
17	Feature Vectors Generation for Detection of Microcalcifications in Digitized Mammography Using Neural Networks. Lecture Notes in Computer Science, 2003, , 583-590.	1.0	17
18	Performance Analysis of Neural Network Detectors by Importance Sampling Techniques. Neural Processing Letters, 1999, 9, 257-269.	2.0	16

#	Article	IF	Citations
19	Wavelet analysis in a structured clay soil using 2-D images. Nonlinear Processes in Geophysics, 2007, 14, 425-434.	0.6	16
20	Unsupervised system to classify SO2 pollutant concentrations in Salamanca, Mexico. Expert Systems With Applications, 2012, 39, 107-116.	4.4	15
21	Images sub-segmentation with the PFCM clustering algorithm. , 2009, , .		14
22	Unmanned Aerial Vehicle route optimization using ant system algorithm. , 2010, , .		14
23	University Knowledge Transfer Offices and Social Responsibility. Administrative Sciences, 2016, 6, 20.	1.5	14
24	On the biological plausibility of artificial metaplasticity learning algorithm. Neurocomputing, 2013, 114, 32-35.	3.5	13
25	A Prediction Model to Diabetes Using Artificial Metaplasticity. Lecture Notes in Computer Science, 2011, , 418-425.	1.0	13
26	A comparison of criterion functions for a neural network applied to binary detection. , 0, , .		12
27	An Improvement to the Possibilistic Fuzzy c-Means Clustering Algorithm. , 2006, , .		12
28	Adaptive artificial ant colonies for edge detection in digital images. , 2010, , .		12
29	Tackling business intelligence with bioinspired deep learning. Neural Computing and Applications, 2020, 32, 13195-13202.	3.2	11
30	Improvement for detection of microcalcifications through clustering algorithms and artificial neural networks. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	10
31	Application of Artificial Metaplasticity Neural Networks to Cardiac Arrhythmias Classification. Lecture Notes in Computer Science, 2013, , 181-190.	1.0	9
32	Comparison of a neural network detector vs Neyman-Pearson optimal detector. , 0, , .		8
33	Multiple proportion case-basing driven CBRE and its application in the evaluation of possible failure of firms. International Journal of Systems Science, 2013, 44, 1409-1425.	3.7	8
34	Automatic Detection of Microcalcifications in ROI Images Based on PFCM and ANN. International Journal of Intelligent Computing in Medical Sciences and Image Processing, 2013, 5, 161-174.	0.5	8
35	Color image segmentation by partitional clustering algorithms. , 2010, , .		7
36	The Koniocortex-Like Network: A New Biologically Plausible Unsupervised Neural Network. Lecture Notes in Computer Science, 2015, , 163-174.	1.0	7

#	Article	IF	Citations
37	Image Segmentation Using Ant System-Based Clustering Algorithm. Advances in Intelligent and Soft Computing, 2011, , 35-45.	0.2	6
38	Discrete multi-criteria methods for lands use and conservation planning on La Colacha in Arroyos Menores (RÃo Cuarto, Province of CÃ³rdoba, Argentina). Annals of Operations Research, 2016, 245, 315-336.	2.6	6
39	AMSOM: artificial metaplasticity in SOM neural networksâ€"application to MIT-BIH arrhythmias database. Neural Computing and Applications, 2020, 32, 13213-13220.	3.2	6
40	Air Pollutant Level Estimation Applying a Self-organizing Neural Network. Lecture Notes in Computer Science, 2007, , 599-607.	1.0	6
41	Performance improvements for a neural network detector. , 0, , .		5
42	On the problem of binary detection with neural networks. , 0, , .		5
43	<title>Wavelet neural network for detection of signals in communications</title>. , 1998, , .		5
44	Importance Sampling and Mean-Square Error in Neural Detector Training. Neural Processing Letters, 2002, 16, 259-276.	2.0	5
45	Artificial metaplasticity MLP applied to image classification. , 2009, , .		5
46	Variation in Spectral and Mass Dimension on Three-Dimensional Soil Image Processing. Soil Science, 2012, 177, 88-97.	0.9	5
47	Improvement of the Image Sub-Segmentation for Identification and Differentiation of Atypical Regions. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1860011.	0.7	5
48	Artificial Metaplasticity for Deep Learning: Application to WBCD Breast Cancer Database Classification. Lecture Notes in Computer Science, 2015, , 399-408.	1.0	5
49	From Smart Grids to Business Intelligence, a Challenge for Bioinspired Systems. Lecture Notes in Computer Science, 2015, , 439-450.	1.0	5
50	Improved Multilayer Perceptron Design by Weighted Learning. , 2007, , .		4
51	Sustainable agriculture using an intelligent mechatronic system. , 2009, , .		4
52	Prevision of industrial SO<inf>2</inf> pollutant concentration applying ANNs. , 2009, , .		4
53	Data fusion and neural network combination method for air pollution level monitoring. , 2009, , .		4
54	Artificial Metaplasticity: Application to MIT-BIH Arrhythmias Database. Lecture Notes in Computer Science, 2015, , 133-142.	1.0	4

#	Article	IF	Citations
55	Determining geostrophic wind direction in a rainfall forecast expert system. Integrated Computer-Aided Engineering, 2018, 26, 111-121.	2.5	4
56	Smart Manufacturing in a SoSE Perspective. , 2018, , 479-507.		4
57	Breast Cancer Classification Applying Artificial Metaplasticity. Lecture Notes in Computer Science, 2009, , 48-54.	1.0	4
58	Continuous multi-criteria methods for crop and soil conservation planning on La Colacha (RÃo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 2529-2543.	1.5	4
59	Neural Networks Historical Review. , 2007, , 39-65.		4
60	Mammography classification using wavelets. , 0, , .		3
61	Feature extraction using coordinate logic filters and Artificial Neural Networks. , 2009, , .		3
62	A mechatronic system design case study: Control of a robotic swarm using networked control algorithms. , 2010, , .		3
63	Intrinsic Plasticity for Natural Competition in Koniocortex-Like Neural Networks. International Journal of Neural Systems, 2016, 26, 1650040.	3.2	3
64	KLN, a new biological koniocortex based unsupervised neural network: competitive results on credit scoring. Natural Computing, 2019, 18, 265-273.	1.8	3
65	Detection of Microcalcifications Using Coordinate Logic Filters and Artificial Neural Networks. Lecture Notes in Computer Science, 2009, , 179-187.	1.0	3
66	Detection of Microcalcifications in Mammograms by the Combination of a Neural Detector and Multiscale Feature Enhancement. Lecture Notes in Computer Science, 2001, , 385-392.	1.0	3
67	Pollution Alarm System in Mexico. Lecture Notes in Computer Science, 2009, , 1336-1343.	1.0	3
68	Koniocortex-Like Network Unsupervised Learning Surpasses Supervised Results on WBCD Breast Cancer Database. Lecture Notes in Computer Science, 2017, , 32-41.	1.0	3
69	Air pollution analysis with a PFCM clustering algorithm applied in a real database of Salamanca (Mexico). , 2010, , .		2
70	Probabilistic versus Incremental Presynaptic Learning in Biologically Plausible Synapses. Lecture Notes in Computer Science, 2011, , 80-89.	1.0	2
71	Robustness of artificial metaplasticity learning algorithm. Neurocomputing, 2015, 151, 49-54.	3.5	2
72	Business Intelligence: New products development and supply chain systems in a SoSE perspective. , 2016, , .		2

#	Article	IF	Citations
73	Application of Koniocortex-Like Networks to Cardiac Arrhythmias Classification. Lecture Notes in Computer Science, 2019, , 264-273.	1.0	2
74	Importance Sampling Techniques in Neural Detector Training. Lecture Notes in Computer Science, 2001, , 431-441.	1.0	2
75	Microcalcifications Detection Using PFCM and ANN. Lecture Notes in Computer Science, 2011, , 260-268.	1.0	2
76	Edges Detection of Clusters of Microcalcifications with SOM and Coordinate Logic Filters. Lecture Notes in Computer Science, 2009, , 1029-1036.	1.0	2
77	Roundoff noise results on optimal and block-optimal digital filter structures. , 0, , .		1
78	Study of two ANN digital implementations of a radar detector candidate to an on-board satellite experiment. Lecture Notes in Computer Science, 1999, , 615-624.	1.0	1
79	Wavelet-neural processing for computer aided diagnosis. , 0, , .		1
80	Radar Detection Through Wavelet Transform. , 2007, , .		1
81	Testing artificial metaplasticity in MLP applications. , 2009, , .		1
82	Artificial metaplasticity: An approximation to credit scoring modeling. , 2010, , .		1
83	Application of Artificial Metaplasticity fundamentals to WBCD Breast Cancer Database classification method. , 2016, , .		1
84	Introduction. International Journal of Neural Systems, 2018, 28, 1803001.	3.2	1
85	Koniocortex-Like Network Application to Business Intelligence. , 2018, , .		1
86	Fractals as Pre-Processing Tool for Computational Intelligence Application. , 2007, , 193-212.		1
87	Neyman-Pearson Neural Detectors. Lecture Notes in Computer Science, 2001, , 111-118.	1.0	1
88	Starting Point on the Development of Environemental Risk Management Compe-tences: experiential learning. WPOM: Working Papers on Operations Management, 0, 8, 109.	0.7	1
89	Advances in Neyman-Pearson Neural Detectors Design. Lecture Notes in Computer Science, 2003, , 249-256.	1.0	1
90	Improving the Efficiency of Multiple Sequence Alignment by Genetic Algorithms. Lecture Notes in Computer Science, 2003, , 361-368.	1.0	1

#	Article	IF	Citations
91	Vulnerabilities, Threats and Risks in IT. Lecture Notes in Electrical Engineering, 2010, , 1-21.	0.3	1
92	IT Security Management. Lecture Notes in Electrical Engineering, 2010, , .	0.3	1
93	Quality of Microcalcification Segmentation in Mammograms by Clustering Algorithms. Advances in Intelligent Systems and Computing, 2014, , 299-308.	0.5	1
94	Distributed Task Allocation in Swarms of Robots. , 0, , 450-473.		1
95	Quasi-optimum detection results using a neural network. , 0, , .		0
96	Speech compression with wavelet packets. , 0, , .		0
97	Applied cryptography in Java. , 0, , .		0
98	Improving GRNNs in CAD Systems. Lecture Notes in Computer Science, 2004, , 160-167.	1.0	0
99	Singularity and Multifractal Characterization of Signals with Wavelets. Application to Clay Soil Images. , 2006, , .		0
100	Towards a Neural-Networks Based Therapy for Limbs Spasticity. Lecture Notes in Computer Science, 2007, , 124-131.	1.0	0
101	Design of the Approximation Function of a Pedometer Based on Artificial Neural Network for the Healthy Life Style Promotion in Diabetic Patients. , 2008, , .		0
102	Combination of nonlinear filters and ANN for detection of microcalcifications in digitized mammography. , 2009, , .		0
103	Smoothing exponential techniques applied for pollutant concentration prediction. , 2009, , .		0
104	Prediction of PM<inf>10</inf> concentrations using Fuzzy c-Means and ANN. , 2011, , .		0
105	Mathematical Decision Theory Applied to Land Capability: A Case Study in the Community of Madrid. Journal of Environmental Quality, 2014, 43, 763-774.	1.0	0
106	Mathematical Models to Elaborate Plans for Adaptation of Rural Communities to Climate Change. , 2014, , 193-222.		0
107	Introduction. International Journal of Neural Systems, 2016, 26, 1602001.	3.2	0
108	Introduction. International Journal of Neural Systems, 2019, 29, 1802001.	3.2	0

#	Article	IF	Citations
109	Introduction. International Journal of Neural Systems, 2020, 30, 2002001.	3.2	0
110	New Artificial Metaplasticity MLP Results on Standard Data Base. Lecture Notes in Computer Science, 2009, , 174-179.	1.0	0
111	Viral Marketing. Lecture Notes in Electrical Engineering, 2010, , 137-159.	0.3	0
112	What to Do: The IT Security Roadmap. Lecture Notes in Electrical Engineering, 2010, , 67-89.	0.3	0
113	Social Networking for IT Security Professionals. Lecture Notes in Electrical Engineering, 2010, , 175-203.	0.3	0
114	Present, Future and Beauty of IT Security. Lecture Notes in Electrical Engineering, 2010, , 205-230.	0.3	0
115	Team Dynamics: Building a â€œHuman Systemâ€• Lecture Notes in Electrical Engineering, 2010, , 113-135.	0.3	0
116	Management Support: An Indispensable Ingredient. Lecture Notes in Electrical Engineering, 2010, , 161-173.	0.3	0
117	The Teamâ€“Individual Contract. Lecture Notes in Electrical Engineering, 2010, , 43-66.	0.3	0
118	On the Biological Plausibility of Artificial Metaplasticity. Lecture Notes in Computer Science, 2011, , 119-128.	1.0	0
119	A Neural Network Simulation of Spreading Depression. Lecture Notes in Computer Science, 2013, , 1-8.	1.0	0
120	ACO Using a MCDM Strategy for Route Finding in the City of Guadalajara, MÃ©xico. Advances in Intelligent Systems and Computing, 2014, , 61-70.	0.5	0
121	RISK MANAGEMENT IN INFORMAL UNIVERSITY TECHNOLOGY TRANSFER IN GLOBAL SUPPLY CHAINS. , 2016, , .		0
122	Mathematical Models to Elaborate Plans for Adaptation of Rural Communities to Climate Change â˜†. , 2017, , .		0
123	Combining Multiscale Filtering and Neural Networks for Local Rainfall Forecast. Lecture Notes in Computer Science, 2017, , 481-490.	1.0	0
124	Supervised Metaplasticity for Big Data: Application to Pollutant Concentrations Forecast. Lecture Notes in Computer Science, 2017, , 374-383.	1.0	0
125	Images Sub-segmentation by Fuzzy and Possibilistic Clustering Algorithm. Computacion Y Sistemas, 2019, 23, .	0.2	0
126	The Evolution of Business Intelligence with Neuroinformatics. Lecture Notes in Management and Industrial Engineering, 2020, , 37-44.	0.3	0

#	Article	IF	Citations
127	Distributed Task Allocation in Swarms of Robots. , 0, , 170-193.		0