

Manuel Fernández-Delgado

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,306
citations

394421

19
h-index

377865

34
g-index

57
all docs

57
docs citations

57
times ranked

1397
citing authors

#	ARTICLE	IF	CITATIONS
1	An extensive experimental survey of regression methods. <i>Neural Networks</i> , 2019, 111, 11-34.	5.9	163
2	A new approach for TU complex characterization. <i>IEEE Transactions on Biomedical Engineering</i> , 2000, 47, 764-772.	4.2	83
3	Time-frequency analysis of heart-rate variability. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1997, 16, 119-126.	0.8	71
4	Influence of normalization and color space to color texture classification. <i>Pattern Recognition</i> , 2017, 61, 120-138.	8.1	68
5	Classification of agricultural soil parameters in India. <i>Computers and Electronics in Agriculture</i> , 2017, 135, 269-279.	7.7	62
6	Automatic detection and classification of grains of pollen based on shape and texture. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2006, 36, 531-542.	2.9	61
7	Classifying multichannel ECG patterns with an adaptive neural network. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1998, 17, 45-55.	0.8	60
8	Automatic prediction of village-wise soil fertility for several nutrients in India using a wide range of regression methods. <i>Computers and Electronics in Agriculture</i> , 2018, 154, 120-133.	7.7	60
9	Intelligent telemonitoring of critical-care patients. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1999, 18, 80-88.	0.8	54
10	Direct Kernel Perceptron (DKP): Ultra-fast kernel ELM-based classification with non-iterative closed-form weight calculation. <i>Neural Networks</i> , 2014, 50, 60-71.	5.9	53
11	Exhaustive comparison of colour texture features and classification methods to discriminate cells categories in histological images of fish ovary. <i>Pattern Recognition</i> , 2013, 46, 2391-2407.	8.1	52
12	Rapid Method for Finding Faulty Elements in Antenna Arrays Using Far Field Pattern Samples. <i>IEEE Transactions on Antennas and Propagation</i> , 2009, 57, 1679-1683.	5.1	50
13	A comparison of machine learning algorithms for forecasting indoor temperature in smart buildings. <i>Energy Systems</i> , 2022, 13, 689-705.	3.0	49
14	SUTIL: Intelligent ischemia monitoring system. <i>International Journal of Medical Informatics</i> , 1997, 47, 193-214.	3.3	44
15	Element failure detection in linear antenna arrays using case-based reasoning. <i>IEEE Antennas and Propagation Magazine</i> , 2008, 50, 198-204.	1.4	42
16	MART: a multichannel ART-based neural network. <i>IEEE Transactions on Neural Networks</i> , 1998, 9, 139-150.	4.2	32
17	Fast Array Thinning using Global Optimization Methods. <i>Journal of Electromagnetic Waves and Applications</i> , 2010, 24, 2259-2271.	1.6	25
18	Comparison of several chemometric techniques for the classification of orujo distillate alcoholic samples from Galicia (northwest Spain) according to their certified brand of origin. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2603-2614.	3.7	21

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19	Non-destructive Detection of Hollow Heart in Potatoes Using Hyperspectral Imaging. Lecture Notes in Computer Science, 2011, , 180-187.	1.3	20
20	A comparison of machine learning algorithms on design smell detection using balanced and imbalanced dataset: A study of God class. Information and Software Technology, 2022, 143, 106736.	4.4	17
21	Polytope ARTMAP: Pattern Classification Without Vigilance Based on General Geometry Categories. IEEE Transactions on Neural Networks, 2007, 18, 1306-1325.	4.2	16
22	A comparison among several techniques for finding defective elements in antenna arrays. , 2007, , .		14
23	Direct Parallel Perceptrons (DPPs): Fast Analytical Calculation of the Parallel Perceptrons Weights With Margin Control for Classification Tasks. IEEE Transactions on Neural Networks, 2011, 22, 1837-1848.	4.2	14
24	CT Radiomics in Colorectal Cancer: Detection of KRAS Mutation Using Texture Analysis and Machine Learning. Applied Sciences (Switzerland), 2020, 10, 6214.	2.5	14
25	Common Scab Detection on Potatoes Using an Infrared Hyperspectral Imaging System. Lecture Notes in Computer Science, 2011, , 303-312.	1.3	14
26	Evolutionary intelligence in asphalt pavement modeling and quality-of-information. Progress in Artificial Intelligence, 2012, 1, 119-135.	2.4	13
27	Learning analytics for the prediction of the educational objectives achievement. , 2014, , .		13
28	Route learning and reproduction in a tour-guide robot. Robotics and Autonomous Systems, 2015, 63, 206-213.	5.1	12
29	Comparison of a massive and diverse collection of ensembles and other classifiers for oil spill detection in SAR satellite images. Neural Computing and Applications, 2017, 28, 1101-1117.	5.6	12
30	CystAnalyser: A new software tool for the automatic detection and quantification of cysts in Polycystic Kidney and Liver Disease, and other cystic disorders. PLoS Computational Biology, 2020, 16, e1008337.	3.2	11
31	Magnetic Resonance Imaging, texture analysis and regression techniques to non-destructively predict the quality characteristics of meat pieces. Engineering Applications of Artificial Intelligence, 2019, 82, 110-125.	8.1	10
32	Exploratory study of the impact of project domain and size category on the detection of the God class design smell. Software Quality Journal, 2021, 29, 197-237.	2.2	7
33	Govocitos: A software tool for estimating fish fecundity based on digital analysis of histological images. Computers and Electronics in Agriculture, 2016, 125, 89-98.	7.7	6
34	Polynomial Kernel Discriminant Analysis for 2D visualization of classification problems. Neural Computing and Applications, 2019, 31, 3515-3531.	5.6	6
35	Quick extreme learning machine for large-scale classification. Neural Computing and Applications, 2022, 34, 5923-5938.	5.6	6
36	Automatic marbling prediction of sliced dry-cured ham using image segmentation, texture analysis and regression. Expert Systems With Applications, 2022, 206, 117765.	7.6	6

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37	STERapp: Semiautomatic Software for Stereological Analysis. Application in the Estimation of Fish Fecundity. <i>Electronics (Switzerland)</i> , 2021, 10, 1432.	3.1	5
38	Robust Multi-sensor System for Mobile Robot Localization. <i>Lecture Notes in Computer Science</i> , 2013, , 92-101.	1.3	5
39	Wireless interface for monitored patients in coronary care units. , 0, , .		4
40	On the Use of Nominal and Ordinal Classifiers for the Discrimination of States of Development in Fish Oocytes. <i>Neural Processing Letters</i> , 2016, 44, 555-570.	3.2	4
41	Assessing the Influence of Size Category of the Project in God Class Detection, an Experimental Approach based on Machine Learning. , 2019, , .		4
42	Viability Study of Machine Learning-Based Prediction of COVID-19 Pandemic Impact in Obsessive-Compulsive Disorder Patients. <i>Frontiers in Neuroinformatics</i> , 2022, 16, 807584.	2.5	4
43	Spectral analysis of HRV by means of time frequency distributions: application to ischemia analysis. , 0, , .		3
44	Fast weight calculation for kernel-based perceptron in two-class classification problems. , 2010, , .		2
45	A Multi-platform Graphical Software for Determining Reproductive Parameters in Fishes Using Histological Image Analysis. <i>Lecture Notes in Computer Science</i> , 2015, , 743-750.	1.3	2
46	Heart rate variability patterns in ischemic episodes. , 0, , .		1
47	A vigilance-free art network with general geometry internal categories. , 0, , .		1
48	A comparison of several neural networks to predict the execution times in injection molding production for automotive industry. <i>Neural Computing and Applications</i> , 2010, 19, 741-754.	5.6	1
49	Handling incomplete information in an evolutionary environment. , 2010, , .		1
50	Rapid infrared multi-spectral systems design using a hyperspectral benchmarking framework. , 2011, , .		1
51	Time Estimation in Injection Molding Production for Automotive Industry Based on SVR and RBF. <i>Lecture Notes in Computer Science</i> , 2009, , 509-518.	1.3	1
52	Statistical and Wavelet Based Texture Features for Fish Oocytes Classification. <i>Lecture Notes in Computer Science</i> , 2011, , 403-410.	1.3	1
53	A Machine Learning Approach in Autism Spectrum Disorders: From Sensory Processing to Behavior Problems. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, .	2.9	1
54	A mathematical model for the T-wave pattern classification. , 0, , .		0

#	ARTICLE	IF	CITATIONS
55	A Parallel Perceptron network for classification with direct calculation of the weights optimizing error and margin. , 2010, , .		0