

Emilio Soria-Olivas

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.

75
papers

1,132
citations

19
h-index

31
g-index

80
ext. papers

1,395
ext. citations

4.8
avg, IF

4.12
L-index

#	Paper	IF	Citations
75	Regularized extreme learning machine for regression problems. <i>Neurocomputing</i> , 2011 , 74, 3716-3721	5.4	126
74	BELM: Bayesian extreme learning machine. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 505-9		106
73	Support vector machine classification of brain metastasis and radiation necrosis based on texture analysis in MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1362-8	5.6	63
72	Support vector machines for nonlinear kernel ARMA system identification. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 1617-22		61
71	Detecting rottenness caused by Penicillium genus fungi in citrus fruits using machine learning techniques. <i>Expert Systems With Applications</i> , 2012 , 39, 780-785	7.8	56
70	Foetal ECG recovery using dynamic neural networks. <i>Artificial Intelligence in Medicine</i> , 2004 , 31, 197-209	7.4	45
69	Unbiased sensitivity analysis and pruning techniques in neural networks for surface ozone modelling. <i>Ecological Modelling</i> , 2005 , 182, 149-158	3	43
68	FPGA Implementation of an Adaptive Filter Robust to Impulsive Noise: Two Approaches. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 860-870	8.9	42
67	Dosage individualization of erythropoietin using a profile-dependent support vector regression. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 1136-42	5	38
66	Optimization of anemia treatment in hemodialysis patients via reinforcement learning. <i>Artificial Intelligence in Medicine</i> , 2014 , 62, 47-60	7.4	35
65	Machine learning methods to forecast temperature in buildings. <i>Expert Systems With Applications</i> , 2013 , 40, 1061-1068	7.8	35
64	Multi-dimensional Function Approximation and Regression Estimation. <i>Lecture Notes in Computer Science</i> , 2002 , 757-762	0.9	33
63	A reinforcement learning approach for individualizing erythropoietin dosages in hemodialysis patients. <i>Expert Systems With Applications</i> , 2009 , 36, 9737-9742	7.8	32
62	Prediction of cyclosporine dosage in patients after kidney transplantation using neural networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 442-8	5	27
61	Expert system for predicting unstable angina based on Bayesian networks. <i>Expert Systems With Applications</i> , 2013 , 40, 5004-5010	7.8	24
60	Use of neural networks for dosage individualisation of erythropoietin in patients with secondary anemia to chronic renal failure. <i>Computers in Biology and Medicine</i> , 2003 , 33, 361-73	7	24
59	Predicting service request in support centers based on nonlinear dynamics, ARMA modeling and neural networks. <i>Expert Systems With Applications</i> , 2008 , 34, 665-672	7.8	23

58	Prediction of the hemoglobin level in hemodialysis patients using machine learning techniques. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 117, 208-17	6.9	22
57	Detection of algorithmically generated malicious domain names using masked N-grams. <i>Expert Systems With Applications</i> , 2019 , 124, 156-163	7.8	19
56	Neural networks for animal science applications: Two case studies. <i>Expert Systems With Applications</i> , 2006 , 31, 444-450	7.8	19
55	Self-Organising Maps: A new way to screen the level of satisfaction of dialysis patients. <i>Expert Systems With Applications</i> , 2012 , 39, 8793-8798	7.8	17
54	HemoKinect: A Microsoft Kinect V2 Based Exergaming Software to Supervise Physical Exercise of Patients with Hemophilia. <i>Sensors</i> , 2018 , 18,	3.8	16
53	Hardware implementation methods in Random Vector Functional-Link Networks. <i>Applied Intelligence</i> , 2014 , 41, 184-195	4.9	16
52	Web mining based on Growing Hierarchical Self-Organizing Maps: Analysis of a real citizen web portal. <i>Expert Systems With Applications</i> , 2008 , 34, 2988-2994	7.8	15
51	Machine Learning for Mortality Analysis in Patients with COVID-19. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	13
50	Use of Self-Organizing Maps for Balanced Scorecard analysis to monitor the performance of dialysis clinic chains. <i>Health Care Management Science</i> , 2012 , 15, 79-90	4	11
49	Assigning discounts in a marketing campaign by using reinforcement learning and neural networks. <i>Expert Systems With Applications</i> , 2009 , 36, 8022-8031	7.8	11
48	CitrusYield: A Dashboard for Mapping Yield and Fruit Quality of Citrus in Precision Agriculture. <i>Agronomy</i> , 2020 , 10, 128	3.6	10
47	Estimating net radiation at surface using artificial neural networks: a new approach. <i>Theoretical and Applied Climatology</i> , 2011 , 106, 263-279	3	10
46	Visual data mining with self-organising maps for ventricular fibrillation analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2013 , 111, 269-79	6.9	9
45	Steady-state and tracking analysis of a robust adaptive filter with low computational cost. <i>Signal Processing</i> , 2007 , 87, 210-215	4.4	9
44	Similarity and Consistency in Hotel Online Ratings across Platforms. <i>Journal of Travel Research</i> , 2020 , 59, 742-758	6.3	9
43	ELM Regularized Method for Classification Problems. <i>International Journal on Artificial Intelligence Tools</i> , 2016 , 25, 1550026	0.9	8
42	Physical Activity Monitoring and Acceptance of a Commercial Activity Tracker in Adult Patients with Haemophilia. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	7
41	Least-squares temporal difference learning based on an extreme learning machine. <i>Neurocomputing</i> , 2014 , 141, 37-45	5.4	7

40	Online fitted policy iteration based on extreme learning machines. <i>Knowledge-Based Systems</i> , 2016 , 100, 200-211	7.3	7
39	Vibration Monitoring of the Mechanical Harvesting of Citrus to Improve Fruit Detachment Efficiency. <i>Sensors</i> , 2019 , 19,	3.8	6
38	Sparse Manifold Clustering and Embedding to discriminate gene expression profiles of glioblastoma and meningioma tumors. <i>Computers in Biology and Medicine</i> , 2013 , 43, 1863-9	7	6
37	Therapeutic Drug Monitoring of Kidney Transplant Recipients Using Profiled Support Vector Machines. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2007 , 37, 359-372		6
36	Crane collision modelling using a neural network approach. <i>Expert Systems With Applications</i> , 2004 , 27, 341-348	7.8	6
35	Matlab-based interface for the simultaneous acquisition of force measures and Doppler ultrasound muscular images. <i>Computer Methods and Programs in Biomedicine</i> , 2013 , 110, 76-81	6.9	5
34	Modelling net radiation at surface using in situ netpyrradiometer measurements with artificial neural networks. <i>Expert Systems With Applications</i> , 2011 ,	7.8	5
33	Use of SOMs for footwear comfort evaluation. <i>Neural Computing and Applications</i> , 2017 , 28, 1763-1773	4.8	4
32	Assessment of Kinect V2 for elbow range of motion estimation in people with haemophilia using an angle correction model. <i>Haemophilia</i> , 2019 , 25, e165-e173	3.3	4
31	Visual Data Mining With Self-organizing Maps for Self-monitoring Data Analysis. <i>Sociological Methods and Research</i> , 2018 , 47, 492-506	2.9	4
30	A new visualization tool for data mining techniques. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 137-154	4	3
29	Application of machine learning techniques to analyse the effects of physical exercise in ventricular fibrillation. <i>Computers in Biology and Medicine</i> , 2014 , 45, 1-7	7	3
28	Description and evaluation of an introductory course to Matlab for a heterogeneous group of university students. <i>Computer Applications in Engineering Education</i> , 2010 , 18, 750-756	1.6	3
27	Non-linear RLS-based algorithm for pattern classification. <i>Signal Processing</i> , 2006 , 86, 1104-1108	4.4	3
26	Use of Reinforcement Learning in Two Real Applications. <i>Lecture Notes in Computer Science</i> , 2008 , 191-204		3
25	Influence of genetic factors in elbow tendon pathology: a case-control study. <i>Scientific Reports</i> , 2020 , 10, 6503	4.9	3
24	MATLAB-based educational software for exploratory data analysis (EDA toolkit). <i>Computer Applications in Engineering Education</i> , 2012 , 20, 313-320	1.6	2
23	Improving Mortality Prediction in Cardiovascular Risk Patients by Balancing Classes 2015 ,		2

22	Analysis of ventricular fibrillation signals using feature selection methods 2012 ,		2
21	Exploring the Heterogeneity and Trajectories of Positive Functioning Variables, Emotional Distress, and Post-traumatic Growth During Strict Confinement Due to COVID-19. <i>Journal of Happiness Studies</i> , 2021 , 1-26	3.7	2
20	Educational Software Based on Matlab GUIs for Neural Networks Courses. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2016 , 333-358	0.4	2
19	Comparing ELM Against MLP for Electrical Power Prediction in Buildings. <i>Lecture Notes in Computer Science</i> , 2015 , 409-418	0.9	2
18	Comment on "Computer-Extracted Texture Features to Distinguish Cerebral Radionecrosis from Recurrent Brain Tumors on Multiparametric MRI: A Feasibility Study". <i>American Journal of Neuroradiology</i> , 2017 , 38, E21	4.4	1
17	Implementation of a new adaptive algorithm using fuzzy cost function and robust to impulsive noise 2012 ,		1
16	Statistical criteria for early-stopping of support vector machines. <i>Neurocomputing</i> , 2007 , 70, 2588-2592	5.4	1
15	Automated Chest Radiographs Triage Reading by a Deep Learning Referee Network		1
14	Random extreme learning machines to predict electric load in buildings. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 129-135	4	1
13	Automatic mass spectra recognition for Ultra High Vacuum systems using multilabel classification. <i>Expert Systems With Applications</i> , 2021 , 178, 114959	7.8	1
12	Visual Data Mining in Physiotherapy Using Self-Organizing Maps. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2012 , 187-194	0.3	0
11	Analysis of the Pre and Post-COVID-19 Lockdown Use of Smartphone Apps in Spain. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5807	2.6	0
10	Toward Optimal LSTM Neural Networks for Detecting Algorithmically Generated Domain Names. <i>IEEE Access</i> , 2021 , 9, 126446-126456	3.5	0
9	Enhancing decision-based neural networks through local competition. <i>Neurocomputing</i> , 2006 , 69, 905-908	3.4	
8	Robust automatic classification method for hyperspectral imagery 2004 , 5238, 398		
7	Artificial Neural Networks in Physical Therapy 2015 , 6358-6368		
6	Forecasting Techniques for Energy Optimization in Buildings 2015 , 967-977		
5	An AI Walk from Pharmacokinetics to Marketing 2009 , 71-75		

- 4 Application of Machine Learning Techniques in the Study of the Relevance of Environmental Factors in Prediction of Tropospheric Ozone **2010**, 278-292
- 3 Decay Detection in Citrus Fruits Using Hyperspectral Computer Vision **2012**, 104-123
- 2 Reconstruction of Ultra-High Vacuum Mass Spectra Using Genetic Algorithms. *Applied Sciences (Switzerland)*, **2021**, 11, 11754 2.6
- 1 Prediction of Temperature in Buildings Using Machine Learning Techniques 2901-2919