Juan R RabuÃ±al

List of Publications by Year
in descending order

87 papers	1,401 citations	430874 18 h-index	361022 35 g-index
91 all docs	91 docs citations	91 times ranked	1533 citing authors

#	Article	IF	Citations
1	Automatic epileptic seizure detection in EEGs based on line length feature and artificial neural networks. Journal of Neuroscience Methods, 2010, 191, 101-109.	2.5	360
2	Determination of the unit hydrograph of a typical urban basin using genetic programming and artificial neural networks. Hydrological Processes, 2007, 21, 476-485.	2.6	66
3	Artificial Neural Networks in Real-Life Applications. , 2006, , .		65
4	Prediction and modeling of the rainfall-runoff transformation of a typical urban basin using ann and gp. Applied Artificial Intelligence, 2003, 17, 329-343.	3.2	62
5	Artificial Intelligence Techniques for Colorectal Cancer Drug Metabolism: Ontologies and Complex Networks. Current Drug Metabolism, 2010, 11, 347-368.	1.2	59
6	Computer application for the analysis and design of vertical slot fishways in accordance with the requirements of the target species. Ecological Engineering, 2012, 48, 51-60.	3.6	59
7	Drug Discovery and Design for Complex Diseases through QSAR Computational Methods. Current Pharmaceutical Design, 2010, 16, 2640-2655.	1.9	50
8	Performance of artificial neural networks in nearshore wave power prediction. Applied Soft Computing Journal, 2014, 23, 194-201.	7.2	46
9	Optimization of existing equations using a new Genetic Programming algorithm: Application to the shear strength of reinforced concrete beams. Advances in Engineering Software, 2012, 50, 82-96.	3.8	37
10	Optical Fish Trajectory Measurement in Fishways through Computer Vision and Artificial Neural Networks. Journal of Computing in Civil Engineering, 2011, 25, 291-301.	4.7	35
11	A New Approach to the Extraction of ANN Rules and to Their Generalization Capacity Through GP. Neural Computation, 2004, 16, 1483-1523.	2.2	34
12	Generation and simplification of Artificial Neural Networks by means of Genetic Programming. Neurocomputing, 2010, 73, 3200-3223.	5.9	29
13	Evolutionary Computation and QSAR Research. Current Computer-Aided Drug Design, 2013, 9, 206-225.	1.2	28
14	Fish tracking in vertical slot fishways using computer vision techniques. Journal of Hydroinformatics, 2015, 17, 275-292.	2.4	27
15	A virtual laboratory for stability tests of rubble-mound breakwaters. Ocean Engineering, 2008, 35, 1113-1120.	4.3	24
16	Plasmod-PPI: A web-server predicting complex biopolymer targets in plasmodium with entropy measures of proteinâ€“protein interactions. Polymer, 2010, 51, 264-273.	3.8	24
17	Optimal adjustment of EC-2 shear formulation for concrete elements without web reinforcement using Genetic Programming. Engineering Structures, 2010, 32, 3452-3466.	5.3	22
18	Modifying genetic programming for artificial neural network development for data mining. Soft Computing, 2009, 13, 291-305.	3.6	20

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19	Developing a Secure Low-Cost Radon Monitoring System. Sensors, 2020, 20, 752.	3.8	18
20	Pure Mode I Fracture Toughness Determination in Rocks Using a Pseudo-Compact Tension (pCT) Test Approach. Rock Mechanics and Rock Engineering, 2020, 53, 3267-3285.	5.4	18
21	Machine Learning Techniques for Single Nucleotide Polymorphismâ€"Disease Classification Models in Schizophrenia. Molecules, 2010, 15, 4875-4889.	3.8	17
22	Hybrid Model Based on Genetic Algorithms and SVM Applied to Variable Selection within Fruit Juice Classification. Scientific World Journal, The, 2013, 2013, 1-13.	2.1	17
23	Operational thresholds of moored ships at the oil terminal of inner port of A CoruÃ±a (Spain). Ocean Engineering, 2019, 172, 599-613.	4.3	17
24	A new hybrid evolutionary mechanism based on unsupervised learning for Connectionist Systems. Neurocomputing, 2007, 70, 2799-2808.	5.9	15
25	Computer vision applied to wave flume measurements. Ocean Engineering, 2009, 36, 1073-1079.	4.3	14
26	Two-dimensional gel electrophoresis image registration using block-matching techniques and deformation models. Analytical Biochemistry, 2014, 454, 53-59.	2.4	14
27	Prediction and Modelling of the Flow of a Typical Urban Basin through Genetic Programming. Lecture Notes in Computer Science, 2002, , 190-201.	1.3	14
28	Automatic seizure detection based on star graph topological indices. Journal of Neuroscience Methods, 2012, 209, 410-419.	2.5	13
29	Fish Monitoring and Sizing Using Computer Vision. Lecture Notes in Computer Science, 2015, , 419-428.	1.3	13
30	Machine Learning Based Moored Ship Movement Prediction. Journal of Marine Science and Engineering, 2021, 9, 800.	2.6	13
31	Experimental evaluation of expansive behavior of an old-aged ASR-affected dam concrete: methodology and application. Materials and Structures/Materiaux Et Constructions, 2007, 41, 173-188.	3.1	11
32	Wearable Postural Control System for Low Back Pain Therapy. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	11
33	Time Series Forecast with Anticipation Using Genetic Programming. Lecture Notes in Computer Science, 2005, , 968-975.	1.3	10
34	Genetic programming and floating boom performance. Ocean Engineering, 2015, 104, 310-318.	4.3	10
35	Predicting Vertical Urban Growth Using Genetic Evolutionary Algorithms in Tokyoâ€™s Minato Ward. Journal of the Urban Planning and Development Division, ASCE, 2018, 144, .	1.7	10
36	Optical Analysis of Strength Tests Based on Blockâ€Matching Techniques. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 573-593.	9.8	9

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37	Pool-Type Fishway Design for a Potamodromous Cyprinid in the Iberian Peninsula: The Iberian Barbelâ€"Synthesis and Future Directions. Sustainability, 2020, 12, 3387.	3.2	9
38	Development of an Automatic Low-Cost Air Quality Control System: A Radon Application. Applied Sciences (Switzerland), 2021, 11, 2169.	2.5	7
39	Application of an Analytic Methodology to Estimate the Movements of Moored Vessels Based on Forecast Data. Water (Switzerland), 2019, 11, 1841.	2.7	6
40	Using Genetic Programming for Character Discrimination in Damaged Documents. Lecture Notes in Computer Science, 2004, , 349-358.	1.3	6
41	Automatic Design of ANNs by Means of GP for Data Mining Tasks: Iris Flower Classification Problem. Lecture Notes in Computer Science, 2007, , 276-285.	1.3	6
42	An Application of Fish Detection Based on Eye Search with Artificial Vision and Artificial Neural Networks. Water (Switzerland), 2020, 12, 3013.	2.7	5
43	Hybrid System with Artificial Neural Networks and Evolutionary Computation in Civil Engineering. , 2006, , 166-187.		5
44	Modeling of Energy Efficiency for Residential Buildings Using Artificial Neuronal Networks. Advances in Civil Engineering, 2018, 2018, 1-10.	0.7	4
45	Diversity and Multimodal Search with a Hybrid Two-Population GA: An Application to ANN Development. Lecture Notes in Computer Science, 2005, , 382-390.	1.3	4
46	Rules and Generalization Capacity Extraction from ANN with GP. Lecture Notes in Computer Science, 2003, , 606-613.	1.3	4
47	Applying Genetic Programming to Civil Engineering in the Improvement of Models, Codes and Norms. Lecture Notes in Computer Science, 2008, , 452-460.	1.3	4
48	Biomedical data integration in computational drug design and bioinformatics. Current Computer-Aided Drug Design, 2013, 9, 108-17.	1.2	4
49	Evolving simple feed-forward and recurrent ANNs for signal classification: A comparison. , 2009, , .		3
50	Detection of Fishes in Turbulent Waters Based on Image Analysis. Lecture Notes in Computer Science, 2013, , 404-412.	1.3	3
51	Machine Learning-Based Radon Monitoring System. Chemosensors, 2022, 10, 239.	3.6	3
52	Automatic recurrent ANN rule extraction with genetic programming. , 0, , .		2
53	Biomedical Data Integration in Computational Drug Design and Bioinformatics. Current Computer-Aided Drug Design, 2013, 9, 108-117.	1.2	2
54	Developing an Open-Source, Low-Cost, Radon Monitoring System. Proceedings (mdpi), 2020, 54, .	0.2	2

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55	Net-Net AutoML Selection of Artificial Neural Network Topology for Brain Connectome Prediction. Applied Sciences (Switzerland), 2020, 10, 1308.	2.5	2
56	Deep Learning Based Ship Movement Prediction System Architecture. Lecture Notes in Computer Science, 2019, , 844-855.	1.3	2
57	A pointâ€based redesign algorithm for designing geometrically complex surfaces. A case study: Miralles's croissant paradox. IET Image Processing, 2020, 14, 2948-2956.	2.5	2
58	Fish Tracking with Computer Vision Techniques. Advances in Computational Intelligence and Robotics Book Series, 2017, , 74-104.	0.4	2
59	FishPath: aplicaciÃ³n informÃ¡tica de diseÃ±o de escalas de peces de hendidura vertical. IngenierÃa Del Agua, 2015, 19, 179.	0.4	2
60	Hybrid Two-Population Genetic Algorithm. Lecture Notes in Computer Science, 2001, , 464-470.	1.3	2
61	A model of virtual 'learning to learn'. , 0, , .		1
62	Motion estimation in real deformation processes based on block-matching techniques. , 2011, , .		1
63	Assisted surface redesign by perturbing its point cloud representation. IET Software, 2018, 12, 251-257.	2.1	1
64	Multilevel Genetic Algorithm for the Complete Development of ANN. Lecture Notes in Computer Science, 2001, , 717-724.	1.3	1
65	Genetic Programming for Prediction of Water Flow and Transport of Solids in a Basin. Lecture Notes in Computer Science, 2011, , 223-232.	1.3	1
66	Study of Strength Tests with Computer Vision Techniques. Lecture Notes in Computer Science, 2011, , 257-266.	1.3	1
67	Genetic Programming to Improvement FIB Model. Lecture Notes in Computer Science, 2013, , 463-470.	1.3	1
68	Restoration of Old Documents with Genetic Algorithms. Lecture Notes in Computer Science, 2003, , 432-443.	1.3	1
69	Artificial Neural Networks in Urban Runoff Forecast. Lecture Notes in Computer Science, 2009, , 1192-1199.	1.3	1
70	Database Analysis with ANNs by means of Graph Evolution. , 2013, , 704-718.		1
71	Un sistema de detecciÃ³n de peces para escala de hendidura vertical utilizando tecnologÃa lÃ¡ser y tÃ©cnicas de visiÃ³n artificial. IngenierÃa Del Agua, 2015, 19, 229.	0.4	1
72	Database Analysis with ANNs by means of Graph Evolution. , 0, , 79-93.		1

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73	Knowledge Management and Interactive Learning. Lecture Notes in Computer Science, 2004, , 481-482.	1.3	0
74	Bat Echolocation Interfering with Ultrasonic Sensors. Journal of Hydraulic Engineering, 2006, 132, 1358-1360.	1.5	0
75	Distributed Genetic Programming for Obtaining Formulas: Application to Concrete Strength. Advances in Intelligent and Soft Computing, 2010, , 357-364.	0.2	0
76	SNP locator: a candidate SNP selection tool. International Journal of Data Mining, Modelling and Management, 2013, 5, 193.	0.1	0
77	Raspberry Pimu: Raspberry Pi Based Inertial Sensor Data Processing System. Proceedings (mdpi), 2018, 2, .	0.2	0
78	PRACTICUM DIRECT Simulator for Decision Making during Pandemics. Engineering Proceedings, 0, , .	0.4	0
79	Simulation of the Action Potential in the Neuron's Membrane in Artificial Neural Networks. , 2009, , 74-93.		0
80	Soft Computing Techniques in Civil Engineering. , 2010, , 143-159.		0
81	Artificial Cells for Information Processing: Iris Classification. Lecture Notes in Computer Science, 2011, , 44-52.	1.3	0
82	Automatic Fish Segmentation on Vertical Slot Fishways Using SOM Neural Networks. Lecture Notes in Computer Science, 2013, , 445-452.	1.3	0
83	Neural Network Overtopping Predictor Proof of Concept. Lecture Notes in Computer Science, 2017, , 616-625.	1.3	0
84	Evaluation as a Continuous Improvement Process in the Learning of Programming Languages. Advances in Intelligent Systems and Computing, 2019, , 521-529.	0.6	0
85	Point Cloud Manager. Advances in Data Mining and Database Management Book Series, 0, , 202-216.	0.5	0
86	Virtual Reality and Point-Based Rendering in Architecture and Heritage. , 0, , 549-565.		0
87	A Comparison Between ANN Generation and Training Methods and Their Development by Means of Graph Evolution: 2 Sample Problems. , 2007, , 94-101.		0