Juan R RabuÃ±al

List of Publications by Year
in descending order

87	1,401	430754	360920
papers	citations	18	35
		h-index	g-index

91	91	91	1533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine Learning-Based Radon Monitoring System. Chemosensors, 2022, 10, 239.	1.8	3
2	Wearable Postural Control System for Low Back Pain Therapy. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	11
3	Development of an Automatic Low-Cost Air Quality Control System: A Radon Application. Applied Sciences (Switzerland), 2021, 11, 2169.	1.3	7
4	Machine Learning Based Moored Ship Movement Prediction. Journal of Marine Science and Engineering, 2021, 9, 800.	1.2	13
5	An Application of Fish Detection Based on Eye Search with Artificial Vision and Artificial Neural Networks. Water (Switzerland), 2020, 12, 3013.	1.2	5
6	Developing an Open-Source, Low-Cost, Radon Monitoring System. Proceedings (mdpi), 2020, 54, .	0.2	2
7	Developing a Secure Low-Cost Radon Monitoring System. Sensors, 2020, 20, 752.	2.1	18
8	Net-Net AutoML Selection of Artificial Neural Network Topology for Brain Connectome Prediction. Applied Sciences (Switzerland), 2020, 10, 1308.	1.3	2
9	Pool-Type Fishway Design for a Potamodromous Cyprinid in the Iberian Peninsula: The Iberian Barbel—Synthesis and Future Directions. Sustainability, 2020, 12, 3387.	1.6	9
10	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.	2.6	18
11	A point-based redesign algorithm for designing geometrically complex surfaces. A case study: Miralles's croissant paradox. IET Image Processing, 2020, 14, 2948-2956.	1.4	2
12	Operational thresholds of moored ships at the oil terminal of inner port of A Coruña (Spain). Ocean Engineering, 2019, 172, 599-613.	1.9	17
13	Application of an Analytic Methodology to Estimate the Movements of Moored Vessels Based on Forecast Data. Water (Switzerland), 2019, 11, 1841.	1.2	6
14	Deep Learning Based Ship Movement Prediction System Architecture. Lecture Notes in Computer Science, 2019, , 844-855.	1.0	2
15	Evaluation as a Continuous Improvement Process in the Learning of Programming Languages. Advances in Intelligent Systems and Computing, 2019, , 521-529.	0.5	0
16	Predicting Vertical Urban Growth Using Genetic Evolutionary Algorithms in Tokyo's Minato Ward. Journal of the Urban Planning and Development Division, ASCE, 2018, 144, .	0.8	10
17	Raspberry Pimu: Raspberry Pi Based Inertial Sensor Data Processing System. Proceedings (mdpi), 2018, 2, .	0.2	0
18	Modeling of Energy Efficiency for Residential Buildings Using Artificial Neuronal Networks. Advances in Civil Engineering, 2018, 2018, 1-10.	0.4	4

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19	Assisted surface redesign by perturbing its point cloud representation. IET Software, 2018, 12, 251-257.	1.5	1
20	Fish Tracking with Computer Vision Techniques. Advances in Computational Intelligence and Robotics Book Series, 2017, , 74-104.	0.4	2
21	Neural Network Overtopping Predictor Proof of Concept. Lecture Notes in Computer Science, 2017, , 616-625.	1.0	0
22	Fish Monitoring and Sizing Using Computer Vision. Lecture Notes in Computer Science, 2015, , 419-428.	1.0	13
23	Fish tracking in vertical slot fishways using computer vision techniques. Journal of Hydroinformatics, 2015, 17, 275-292.	1.1	27
24	Genetic programming and floating boom performance. Ocean Engineering, 2015, 104, 310-318.	1.9	10
25	FishPath: aplicaciÃ³n informÃ¡tica de diseÃ±o de escalas de peces de hendidura vertical. IngenierÃa Del Agua, 2015, 19, 179.	0.2	2
26	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.	0.2	1
27	Two-dimensional gel electrophoresis image registration using block-matching techniques and deformation models. Analytical Biochemistry, 2014, 454, 53-59.	1.1	14
28	Performance of artificial neural networks in nearshore wave power prediction. Applied Soft Computing Journal, 2014, 23, 194-201.	4.1	46
29	SNP locator: a candidate SNP selection tool. International Journal of Data Mining, Modelling and Management, 2013, 5, 193.	0.1	0
30	Biomedical Data Integration in Computational Drug Design and Bioinformatics. Current Computer-Aided Drug Design, 2013, 9, 108-117.	0.8	2
31	Hybrid Model Based on Genetic Algorithms and SVM Applied to Variable Selection within Fruit Juice Classification. Scientific World Journal, The, 2013, 2013, 1-13.	0.8	17
32	Detection of Fishes in Turbulent Waters Based on Image Analysis. Lecture Notes in Computer Science, 2013, , 404-412.	1.0	3
33	Genetic Programming to Improvement FIB Model. Lecture Notes in Computer Science, 2013, , 463-470.	1.0	1
34	Evolutionary Computation and QSAR Research. Current Computer-Aided Drug Design, 2013, 9, 206-225.	0.8	28
35	Automatic Fish Segmentation on Vertical Slot Fishways Using SOM Neural Networks. Lecture Notes in Computer Science, 2013, , 445-452.	1.0	0
36	Database Analysis with ANNs by means of Graph Evolution. , 2013, , 704-718.		1

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37	Biomedical data integration in computational drug design and bioinformatics. Current Computer-Aided Drug Design, 2013, 9, 108-17.	0.8	4
38	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.	1.8	37
39	Automatic seizure detection based on star graph topological indices. Journal of Neuroscience Methods, 2012, 209, 410-419.	1.3	13
40	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.	1.6	59
41	Optical Analysis of Strength Tests Based on Block–Matching Techniques. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 573-593.	6.3	9
42	Motion estimation in real deformation processes based on block-matching techniques. , 2011, , .		1
43	Optical Fish Trajectory Measurement in Fishways through Computer Vision and Artificial Neural Networks. Journal of Computing in Civil Engineering, 2011, 25, 291-301.	2.5	35
44	Genetic Programming for Prediction of Water Flow and Transport of Solids in a Basin. Lecture Notes in Computer Science, 2011, , 223-232.	1.0	1
45	Study of Strength Tests with Computer Vision Techniques. Lecture Notes in Computer Science, 2011, , 257-266.	1.0	1
46	Artificial Cells for Information Processing: Iris Classification. Lecture Notes in Computer Science, 2011, , 44-52.	1.0	0
47	Artificial Intelligence Techniques for Colorectal Cancer Drug Metabolism: Ontologies and Complex Networks. Current Drug Metabolism, 2010, 11, 347-368.	0.7	59
48	Optimal adjustment of EC-2 shear formulation for concrete elements without web reinforcement using Genetic Programming. Engineering Structures, 2010, 32, 3452-3466.	2.6	22
49	Generation and simplification of Artificial Neural Networks by means of Genetic Programming. Neurocomputing, 2010, 73, 3200-3223.	3.5	29
50	Plasmod-PPI: A web-server predicting complex biopolymer targets in plasmodium with entropy measures of protein–protein interactions. Polymer, 2010, 51, 264-273.	1.8	24
51	Automatic epileptic seizure detection in EEGs based on line length feature and artificial neural networks. Journal of Neuroscience Methods, 2010, 191, 101-109.	1.3	360
52	Machine Learning Techniques for Single Nucleotide Polymorphism–Disease Classification Models in Schizophrenia. Molecules, 2010, 15, 4875-4889.	1.7	17
53	Drug Discovery and Design for Complex Diseases through QSAR Computational Methods. Current Pharmaceutical Design, 2010, 16, 2640-2655.	0.9	50
54	Distributed Genetic Programming for Obtaining Formulas: Application to Concrete Strength. Advances in Intelligent and Soft Computing, 2010, , 357-364.	0.2	0

#	ARTICLE	IF	CITATIONS
55	Soft Computing Techniques in Civil Engineering. , 2010, , 143-159.		0
56	Modifying genetic programming for artificial neural network development for data mining. Soft Computing, 2009, 13, 291-305.	2.1	20
57	Computer vision applied to wave flume measurements. Ocean Engineering, 2009, 36, 1073-1079.	1.9	14
58	Evolving simple feed-forward and recurrent ANNs for signal classification: A comparison. , 2009, , .		3
59	Artificial Neural Networks in Urban Runoff Forecast. Lecture Notes in Computer Science, 2009, , 1192-1199.	1.0	1
60	Simulation of the Action Potential in the Neuron's Membrane in Artificial Neural Networks. , 2009, , 74-93.		0
61	A virtual laboratory for stability tests of rubble-mound breakwaters. Ocean Engineering, 2008, 35, 1113-1120.	1.9	24
62	Applying Genetic Programming to Civil Engineering in the Improvement of Models, Codes and Norms. Lecture Notes in Computer Science, 2008, , 452-460.	1.0	4
63	Determination of the unit hydrograph of a typical urban basin using genetic programming and artificial neural networks. Hydrological Processes, 2007, 21, 476-485.	1.1	66
64	A new hybrid evolutionary mechanism based on unsupervised learning for Connectionist Systems. Neurocomputing, 2007, 70, 2799-2808.	3.5	15
65	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.	1.3	11
66	Automatic Design of ANNs by Means of GP for Data Mining Tasks: Iris Flower Classification Problem. Lecture Notes in Computer Science, 2007, , 276-285.	1.0	6
67	A Comparison Between ANN Generation and Training Methods and Their Development by Means of Graph Evolution: 2 Sample Problems. , 2007, , 94-101.		0
68	Bat Echolocation Interfering with Ultrasonic Sensors. Journal of Hydraulic Engineering, 2006, 132, 1358-1360.	0.7	0
69	Artificial Neural Networks in Real-Life Applications. , 2006, , .		65
70	Hybrid System with Artificial Neural Networks and Evolutionary Computation in Civil Engineering. , 2006, , 166-187.		5
71	Time Series Forecast with Anticipation Using Genetic Programming. Lecture Notes in Computer Science, 2005, , 968-975.	1.0	10
72	Diversity and Multimodal Search with a Hybrid Two-Population GA: An Application to ANN Development. Lecture Notes in Computer Science, 2005, , 382-390.	1.0	4

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73	A New Approach to the Extraction of ANN Rules and to Their Generalization Capacity Through GP. Neural Computation, 2004, 16, 1483-1523.	1.3	34
74	Knowledge Management and Interactive Learning. Lecture Notes in Computer Science, 2004, , 481-482.	1.0	0
75	Using Genetic Programming for Character Discrimination in Damaged Documents. Lecture Notes in Computer Science, 2004, , 349-358.	1.0	6
76	Prediction and modeling of the rainfall-runoff transformation of a typical urban basin using ann and gp. Applied Artificial Intelligence, 2003, 17, 329-343.	2.0	62
77	Rules and Generalization Capacity Extraction from ANN with GP. Lecture Notes in Computer Science, 2003, , 606-613.	1.0	4
78	Restoration of Old Documents with Genetic Algorithms. Lecture Notes in Computer Science, 2003, , 432-443.	1.0	1
79	Prediction and Modelling of the Flow of a Typical Urban Basin through Genetic Programming. Lecture Notes in Computer Science, 2002, , 190-201.	1.0	14
80	Multilevel Genetic Algorithm for the Complete Development of ANN. Lecture Notes in Computer Science, 2001, , 717-724.	1.0	1
81	Hybrid Two-Population Genetic Algorithm. Lecture Notes in Computer Science, 2001, , 464-470.	1.0	2
82	A model of virtual 'learning to learn'. , 0, , .		1
83	Automatic recurrent ANN rule extraction with genetic programming. , 0, , .		2
84	PRACTICUM DIRECT Simulator for Decision Making during Pandemics. Engineering Proceedings, 0, , .	0.4	0
85	Point Cloud Manager. Advances in Data Mining and Database Management Book Series, 0, , 202-216.	0.4	0
86	Virtual Reality and Point-Based Rendering in Architecture and Heritage. , 0, , 549-565.		0
87	Database Analysis with ANNs by means of Graph Evolution. , 0, , 79-93.		1