Ricardo Aler

List of Publications by Year
in descending order

61 papers	**787** citations	567144 **15** h-index	580701 **25** g-index
67 all docs	**67** docs citations	**67** times ranked	**778** citing authors

#	Article	IF	Citations
1	Multi-objective evolutionary optimization of prediction intervals for solar energy forecasting with neural networks. Information Sciences, 2017, 418-419, 363-382.	4.0	65
2	Improving the separation of direct and diffuse solar radiation components using machine learning by gradient boosting. Solar Energy, 2017, 150, 558-569.	2.9	60
3	Learning teaching strategies in an Adaptive and Intelligent Educational System through Reinforcement Learning. Applied Intelligence, 2009, 31, 89-106.	3.3	54
4	A short-term solar radiation forecasting system for the Iberian Peninsula. Part 2: Model blending approaches based on machine learning. Solar Energy, 2020, 195, 685-696.	2.9	38
5	GA-stacking: Evolutionary stacked generalization. Intelligent Data Analysis, 2010, 14, 89-119.	0.4	37
6	A short-term solar radiation forecasting system for the Iberian Peninsula. Part 1: Models description and performance assessment. Solar Energy, 2020, 195, 396-412.	2.9	36
7	Reinforcement learning of pedagogical policies in adaptive and intelligent educational systems. Knowledge-Based Systems, 2009, 22, 266-270.	4.0	35
8	Using genetic programming to learn and improve control knowledge. Artificial Intelligence, 2002, 141, 29-56.	3.9	32
9	Optimization algorithms for large-scale real-world instances of the frequency assignment problem. Soft Computing, 2011, 15, 975-990.	2.1	31
10	Automatic Cloud–Type Classification Based On the Combined Use of a Sky Camera and a Ceilometer. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,045.	1.2	29
11	Applying evolution strategies to preprocessing EEG signals for brain–computer interfaces. Information Sciences, 2012, 215, 53-66.	4.0	27
12	Programming Robosoccer agents by modeling human behavior. Expert Systems With Applications, 2009, 36, 1850-1859.	4.4	24
13	Metaheuristics for solving a real-world frequency assignment problem in GSM networks. , 2008, , .		22
14	A knowledge-based approach for business process reengineering, SHAMASH. Knowledge-Based Systems, 2002, 15, 473-483.	4.0	21
15	Machine learning techniques for daily solar energy prediction and interpolation using numerical weather models. Concurrency Computation Practice and Experience, 2016, 28, 1261-1274.	1.4	20
16	Performance evaluation of ZEUS, Jade, and SkeletonAgent frameworks. , 0, , .		16
17	Multi-agent plan based information gathering. Applied Intelligence, 2006, 25, 59-71.	3.3	15
18	OMBO: An opponent modeling approach. AI Communications, 2009, 22, 21-35.	0.8	15

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19	Predicting Opponent Actions by Observation. Lecture Notes in Computer Science, 2005, , 286-296.	1.0	14
20	Evolving spatial and frequency selection filters for Brain-Computer Interfaces. , 2010, , .		13
21	A Study of Machine Learning Techniques for Daily Solar Energy Forecasting Using Numerical Weather Models. Studies in Computational Intelligence, 2015, , 269-278.	0.7	13
22	Learning to Solve Planning Problems Efficiently by Means of Genetic Programming. Evolutionary Computation, 2001, 9, 387-420.	2.3	12
23	Direct estimation of prediction intervals for solar and wind regional energy forecasting with deep neural networks. Engineering Applications of Artificial Intelligence, 2022, 114, 105128.	4.3	12
24	Correcting and Improving Imitation Models of Humans for Robosoccer Agents. , 0, , .		10
25	Study of Hellinger Distance as a splitting metric for Random Forests in balanced and imbalanced classification datasets. Expert Systems With Applications, 2020, 149, 113264.	4.4	10
26	Evolutionary-based prediction interval estimation by blending solar radiation forecasting models using meteorological weather types. Applied Soft Computing Journal, 2021, 109, 107531.	4.1	10
27	GPPE: aÂmethod to generate ad-hoc feature extractors forÂprediction in financial domains. Applied Intelligence, 2008, 29, 174-185.	3.3	8
28	Optimizing the number of electrodes and spatial filters for Brainâ€"Computer Interfaces by means of an evolutionary multi-objective approach. Expert Systems With Applications, 2015, 42, 6215-6223.	4.4	8
29	Using a Mahalanobis-Like Distance to Train Radial Basis Neural Networks. Lecture Notes in Computer Science, 2005, , 257-263.	1.0	7
30	Grammatical evolution guided by reinforcement. , 2007, , .		7
31	MACHINE LEARNING IN HYBRID HIERARCHICAL AND PARTIAL-ORDER PLANNERS FOR MANUFACTURING DOMAINS. Applied Artificial Intelligence, 2005, 19, 783-809.	2.0	6
32	Multi-objective metaheuristics for preprocessing EEG data in brainâ€"computer interfaces. Engineering Optimization, 2012, 44, 373-390.	1.5	6
33	Using a Multi-view Convolutional Neural Network to monitor solar irradiance. Neural Computing and Applications, 2022, 34, 10295-10307.	3.2	6
34	A Study on Feature Selection Methods for Wind Energy Prediction. Lecture Notes in Computer Science, 2017, , 698-707.	1.0	6
35	Transition Detection for Brain Computer Interface Classification. Communications in Computer and Information Science, 2010, , 200-210.	0.4	6
36	Learning Content Sequencing in an Educational Environment According to Student Needs. Lecture Notes in Computer Science, 2004, , 454-463.	1.0	5

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37	Immediate transfer of global improvements to all individuals in a population compared to automatically defined functions for the EVEN-5,6-PARITY problems. Lecture Notes in Computer Science, 1998, , 60-70.	1.0	4
38	SOFTWARE AND PERFORMANCE MEASURES FOR EVALUATING MULTI-AGENT FRAMEWORKS. Applied Artificial Intelligence, 2005, 19, 645-657.	2.0	4
39	A filter attribute selection method based on local reliable information. Applied Intelligence, 2018, 48, 35-45.	3.3	4
40	Comparing multi-objective and threshold-moving ROC curve generation for a prototype-based classifier. , 2013, , .		3
41	Supervised data transformation and dimensionality reduction with a 3-layer multi-layer perceptron for classification problems. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 10515-10527.	3.3	3
42	A competence-performance based model to develop a syntactic language for artificial agents. Information Sciences, 2016, 373, 79-94.	4.0	2
43	Evolution of shared grammars for describing simulated spatial scenes with grammatical evolution. Genetic Programming and Evolvable Machines, 2018, 19, 235-270.	1.5	2
44	Wind Energy Forecasting at Different Time Horizons with Individual and Global Models. IFIP Advances in Information and Communication Technology, 2018, , 240-248.	0.5	2
45	Predicting Global Irradiance Combining Forecasting Models Through Machine Learning. Lecture Notes in Computer Science, 2018, , 622-633.	1.0	2
46	Improving Prediction Intervals Using Measured Solar Power with a Multi-Objective Approach. Energies, 2019, 12, 4713.	1.6	2
47	A First Attempt at Constructing Genetic Programming Expressions for EEG Classification. Lecture Notes in Computer Science, 2005, , 665-670.	1.0	2
48	Projecting Financial Data Using Genetic Programming in Classification and Regression Tasks. Lecture Notes in Computer Science, 2006, , 202-212.	1.0	2
49	A cooperative planning algorithm to improve performance in Web domains. , 0, , .		1
50	The Role Of The Lamarck Hypothesis In The Grammatical Evolution Guided By Reinforcement. IEEE Latin America Transactions, 2008, 6, 500-504.	1.2	1
51	Optimizing Linear and Quadratic Data Transformations for Classification Tasks. , 2009, , .		1
52	Knowledge Transfer between Automated Planners. AI Magazine, 2011, 32, 79.	1.4	1
53	Evolving linear transformations with a rotation-angles/scaling representation. Expert Systems With Applications, 2012, 39, 3276-3282.	4.4	1
54	Genetic programming to extract features from the whole-sky camera for cloud type classification. Renewable Energy and Power Quality Journal, 2017, 1, 132-136.	0.2	1

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55	Abstract planning in dynamic environments. , 0, , .		0
56	Solving Travel Problems by Integrating Web Information with Planning. Lecture Notes in Computer Science, 2002, , 482-490.	1.0	0
57	Optimizing Data Transformations for Classification Tasks. Lecture Notes in Computer Science, 2009, , 176-183.	1.0	0
58	An Incremental Model of Lexicon Consensus in a Population of Agents by Means of Grammatical Evolution, Reinforcement Learning and Semantic Rules. Lecture Notes in Computer Science, 2011, , 40-49.	1.0	0
59	Static and Dynamic Multi-Robot Coverage with Grammatical Evolution Guided by Reinforcement and Semantic Rules. , 2012, , 336-365.		0
60	Studying the Effect of Measured Solar Power on Evolutionary Multi-objective Prediction Intervals. Lecture Notes in Computer Science, 2018, , 155-162.	1.0	0
61	Static and Dynamic Multi-Robot Coverage with Grammatical Evolution Guided by Reinforcement and Semantic Rules. , 0, , 407-433.		0