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	Using a Multi-view Convolutional Neural Network to monitor solar irradiance. Neural Computing and Applications, 2022, 34, 10295-10307.	3.2	6
2	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
3	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
4	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
5	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
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	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
8	Improving Prediction Intervals Using Measured Solar Power with a Multi-Objective Approach. Energies, 2019, 12, 4713.	1.6	2
9	Evolution of shared grammars for describing simulated spatial scenes with grammatical evolution. Genetic Programming and Evolvable Machines, 2018, 19, 235-270.	1.5	2
10	A filter attribute selection method based on local reliable information. Applied Intelligence, 2018, 48, 35-45.	3.3	4
11	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
12	Predicting Global Irradiance Combining Forecasting Models Through Machine Learning. Lecture Notes in Computer Science, 2018, , 622-633.	1.0	2
13	Studying the Effect of Measured Solar Power on Evolutionary Multi-objective Prediction Intervals. Lecture Notes in Computer Science, 2018, , 155-162.	1.0	0
14	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
15	Multi-objective evolutionary optimization of prediction intervals for solar energy forecasting with neural networks. Information Sciences, 2017, 418-419, 363-382.	4.0	65
16	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
17	A Study on Feature Selection Methods for Wind Energy Prediction. Lecture Notes in Computer Science, 2017, , 698-707.	1.0	6
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	A competence-performance based model to develop a syntactic language for artificial agents. Information Sciences, 2016, 373, 79-94.	4.0	2
21	Optimizing the number of electrodes and spatial filters for Brain–Computer Interfaces by means of an evolutionary multi-objective approach. Expert Systems With Applications, 2015, 42, 6215-6223.	4.4	8
22	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
23	Comparing multi-objective and threshold-moving ROC curve generation for a prototype-based classifier. , 2013, , .		3
24	Multi-objective metaheuristics for preprocessing EEG data in brain–computer interfaces. Engineering Optimization, 2012, 44, 373-390.	1.5	6
25	Applying evolution strategies to preprocessing EEG signals for brain–computer interfaces. Information Sciences, 2012, 215, 53-66.	4.0	27
26	Evolving linear transformations with a rotation-angles/scaling representation. Expert Systems With Applications, 2012, 39, 3276-3282.	4.4	1
27	Static and Dynamic Multi-Robot Coverage with Grammatical Evolution Guided by Reinforcement and Semantic Rules. , 2012, , 336-365.		0
28	Knowledge Transfer between Automated Planners. AI Magazine, 2011, 32, 79.	1.4	1
29	Optimization algorithms for large-scale real-world instances of the frequency assignment problem. Soft Computing, 2011, 15, 975-990.	2.1	31
30	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
31	GA-stacking: Evolutionary stacked generalization. Intelligent Data Analysis, 2010, 14, 89-119.	0.4	37
32	Evolving spatial and frequency selection filters for Brain-Computer Interfaces. , 2010, , .		13
33	Transition Detection for Brain Computer Interface Classification. Communications in Computer and Information Science, 2010, , 200-210.	0.4	6
34	Optimizing Linear and Quadratic Data Transformations for Classification Tasks. , 2009, , .		1
35	OMBO: An opponent modeling approach. AI Communications, 2009, 22, 21-35.	0.8	15
36	Learning teaching strategies in an Adaptive and Intelligent Educational System through Reinforcement Learning. Applied Intelligence, 2009, 31, 89-106.	3.3	54

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37	Reinforcement learning of pedagogical policies in adaptive and intelligent educational systems. Knowledge-Based Systems, 2009, 22, 266-270.	4.0	35
38	Programming Robosoccer agents by modeling human behavior. Expert Systems With Applications, 2009, 36, 1850-1859.	4.4	24
39	Optimizing Data Transformations for Classification Tasks. Lecture Notes in Computer Science, 2009, , 176-183.	1.0	0
40	GPPE: aÂmethod to generate ad-hoc feature extractors forÂprediction in financial domains. Applied Intelligence, 2008, 29, 174-185.	3.3	8
41	The Role Of The Lamarck Hypothesis In The Grammatical Evolution Guided By Reinforcement. IEEE Latin America Transactions, 2008, 6, 500-504.	1.2	1
42	Metaheuristics for solving a real-world frequency assignment problem in GSM networks. , 2008, , .		22
43	Grammatical evolution guided by reinforcement. , 2007, , .		7
44	Multi-agent plan based information gathering. Applied Intelligence, 2006, 25, 59-71.	3.3	15
45	Projecting Financial Data Using Genetic Programming in Classification and Regression Tasks. Lecture Notes in Computer Science, 2006, , 202-212.	1.0	2
46	Using a Mahalanobis-Like Distance to Train Radial Basis Neural Networks. Lecture Notes in Computer Science, 2005, , 257-263.	1.0	7
47	MACHINE LEARNING IN HYBRID HIERARCHICAL AND PARTIAL-ORDER PLANNERS FOR MANUFACTURING DOMAINS. Applied Artificial Intelligence, 2005, 19, 783-809.	2.0	6
48	SOFTWARE AND PERFORMANCE MEASURES FOR EVALUATING MULTI-AGENT FRAMEWORKS. Applied Artificial Intelligence, 2005, 19, 645-657.	2.0	4
49	Predicting Opponent Actions by Observation. Lecture Notes in Computer Science, 2005, , 286-296.	1.0	14
50	A First Attempt at Constructing Genetic Programming Expressions for EEG Classification. Lecture Notes in Computer Science, 2005, , 665-670.	1.0	2
51	Learning Content Sequencing in an Educational Environment According to Student Needs. Lecture Notes in Computer Science, 2004, , 454-463.	1.0	5
52	A knowledge-based approach for business process reengineering, SHAMASH. Knowledge-Based Systems, 2002, 15, 473-483.	4.0	21
53	Using genetic programming to learn and improve control knowledge. Artificial Intelligence, 2002, 141, 29-56.	3.9	32
54	Solving Travel Problems by Integrating Web Information with Planning. Lecture Notes in Computer Science, 2002, , 482-490.	1.0	0

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55	Learning to Solve Planning Problems Efficiently by Means of Genetic Programming. Evolutionary Computation, 2001, 9, 387-420.	2.3	12
56	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
57	Abstract planning in dynamic environments. , 0, , .		0
58	A cooperative planning algorithm to improve performance in Web domains. , 0, , .		1
59	Performance evaluation of ZEUS, Jade, and SkeletonAgent frameworks. , 0, , .		16
60	Correcting and Improving Imitation Models of Humans for Robosoccer Agents. , 0, , .		10
61	Static and Dynamic Multi-Robot Coverage with Grammatical Evolution Guided by Reinforcement and Semantic Rules. , 0, , 407-433.		0