

# Roman Neruda

## List of Publications by Year in descending order

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Version: 2024-02-01

119  
papers

548  
citations

1478280

6  
h-index

1058333

14  
g-index

128  
all docs

128  
docs citations

128  
times ranked

409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning methods for radial basis function networks. Future Generation Computer Systems, 2005, 21, 1131-1142.	4.9	65
2	Modeling and Discovery of Data Providing Services. , 2008, , .		38
3	The process mediation framework for semantic web services. International Journal of Agent Oriented Software Engineering, 2009, 3, 27.	0.1	24
4	Vulnerability of classifiers to evolutionary generated adversarial examples. Neural Networks, 2020, 127, 168-181.	3.3	24
5	Aggregate meta-models for evolutionary multiobjective and many-objective optimization. Neurocomputing, 2013, 116, 392-402.	3.5	23
6	Meta Learning in Multi-agent Systems for Data Mining. , 2011, , .		17
7	ASM-MOMA: Multiobjective memetic algorithm with aggregate surrogate model. , 2011, , .		17
8	Evolving KERAS Architectures for Sensor Data Analysis. , 0, , .		17
9	Functional Equivalence and Genetic Learning of RBF Networks. , 1995, , 53-56.		14
10	Hypervolume-based local search in multi-objective evolutionary optimization. , 2014, , .		13
11	An Agent for Asymmetric Process Mediation in Open Environments. , 2008, , 104-117.		13
12	Implementing GP on Optimizing both Boolean and Extended Boolean Queries in IR and Fuzzy IR systems with Respect to the Users Profiles. , 0, , .		12
13	Incorporating User Preferences in MOEA/D through the Coevolution of Weights. , 2015, , .		10
14	Choosing an appropriate hydrological model for rainfall-runoff extremes in small catchments. Soil and Water Research, 2015, 10, 137-146.	0.7	10
15	Evolutionary generation of adversarial examples for deep and shallow machine learning models. , 2016, , .		9
16	An Evolutionary Strategy for Surrogate-Based Multiobjective Optimization. , 2012, , .		8
17	Parallel evolutionary algorithm with interleaving generations. , 2017, , .		8
18	Role-based design of computational intelligence multi-agent system. , 2010, , .		7

#	ARTICLE	IF	CITATIONS
19	Two-Phase Genetic Algorithm for Social Network Graphs Clustering. , 2013, , .		7
20	Feature Extraction for Surrogate Models in Genetic Programming. Lecture Notes in Computer Science, 2016, , 335-344.	1.0	7
21	Sensor Data Air Pollution Prediction by Kernel Models. , 2016, , .		7
22	Bang 3: a computational multi-agent system. , 0, , .		6
23	Comparison of behavior-based and planning techniques on the small robot maze exploration problem. Neural Networks, 2010, 23, 560-567.	3.3	6
24	Combining multiobjective and single-objective genetic algorithms in heterogeneous island model. , 2010, , .		6
25	Meta-learning and Model Selection in Multi-objective Evolutionary Algorithms. , 2012, , .		6
26	Deep Networks with RBF Layers to Prevent Adversarial Examples. Lecture Notes in Computer Science, 2018, , 257-266.	1.0	6
27	Towards Extending Service Discovery with Automated Composition Capabilities. , 2008, , .		5
28	LAMM-MMA. , 2011, , .		5
29	Implementation of Parameter Space Search for Meta Learning in a Data-Mining Multi-agent System. , 2011, , .		5
30	Surrogate model selection for evolutionary multiobjective optimization. , 2013, , .		5
31	General tuning of weights in MOEA/D. , 2016, , .		5
32	Hyperparameters Search Methods for Machine Learning Linear Workflows. , 2019, , .		5
33	Kolmogorov learning for feedforward networks. , 0, , .		4
34	Variants of Memetic And Hybrid Learning of Perceptron Networks. , 2007, , .		4
35	Implementing Boolean Matrix Factorization. Lecture Notes in Computer Science, 2008, , 543-552.	1.0	4
36	The effect of different local search algorithms on the performance of multi-objective optimizers. , 2014, , .		4

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37	Evolving Non-Linear Stacking Ensembles for Prediction of Go Player Attributes. , 2015, , .		4
38	Evaluating Go game records for prediction of player attributes. , 2015, , .		4
39	Asynchronous Evolution of Data Mining Workflow Schemes by Strongly Typed Genetic Programming. , 2016, , .		4
40	Data Mining Process Optimization in Computational Multi-agent Systems. Lecture Notes in Computer Science, 2015, , 93-103.	1.0	4
41	Evolving Sum and Composite Kernel Functions for Regularization Networks. Lecture Notes in Computer Science, 2011, , 180-189.	1.0	4
42	Emerging Hybrid Computational Models. Lecture Notes in Computer Science, 2006, , 379-389.	1.0	3
43	Improving many-objective optimizers with aggregate meta-models. , 2011, , .		3
44	A Surrogate Based Multiobjective Evolution Strategy with Different Models for Local Search and Pre-selection. , 2012, , .		3
45	Combining Parameter Space Search and Meta-learning for Data-Dependent Computational Agent Recommendation. , 2012, , .		3
46	Multi-objectivization and Surrogate Modelling for Neural Network Hyper-parameters Tuning. Communications in Computer and Information Science, 2013, , 61-66.	0.4	3
47	Using Genetic Programming to Estimate Performance of Computational Intelligence Models. Lecture Notes in Computer Science, 2013, , 169-178.	1.0	3
48	Evolutionary optimization of meta data metric for method recommendation. , 2013, , .		3
49	Comparing datasets by attribute alignment. , 2014, , .		3
50	Combining top-down and bottom-up approaches for automated discovery of typed programs. , 2017, , .		3
51	More Autonomous Hybrid Models in Bang2. Lecture Notes in Computer Science, 2001, , 935-942.	1.0	3
52	Multi-objective Evolution for Deep Neural Network Architecture Search. Lecture Notes in Computer Science, 2020, , 270-281.	1.0	3
53	Evolutionary trained radial basis function networks for robot control. , 2008, , .		2
54	Supervised Learning Errors by Radial Basis Function Neural Networks and Regularization Networks. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
55	Performance Comparison of Relational Reinforcement Learning and RBF Neural Networks for Small Mobile Robots. , 2008, , .		2
56	Editorial. Neural Networks, 2010, 23, 465.	3.3	2
57	Evolutionary learning of regularization networks with product kernel units. , 2011, , .		2
58	A surrogate multiobjective evolutionary strategy with local search and pre-selection. , 2012, , .		2
59	A Novel Meta Learning System and Its Application to Optimization of Computing Agents' Results. , 2012, , .		2
60	Multiobjectivization for classifier parameter tuning. , 2013, , .		2
61	Clustering Based Classification in Data Mining Method Recommendation. , 2013, , .		2
62	Evolving Workflow Graphs Using Typed Genetic Programming. , 2015, , .		2
63	Hypervolume-Based Surrogate Model for MO-CMA-ES. , 2015, , .		2
64	Automatic Creation of Machine Learning Workflows with Strongly Typed Genetic Programming. International Journal on Artificial Intelligence Tools, 2017, 26, 1760020.	0.7	2
65	Black-box Evolutionary Search for Adversarial Examples against Deep Image Classifiers in Non-Targeted Attacks. , 2020, , .		2
66	Real Time Robot Path Planning and Cleaning. Lecture Notes in Computer Science, 2010, , 442-449.	1.0	2
67	Implementation of Kolmogorov Learning Algorithm for Feedforward Neural Networks. Lecture Notes in Computer Science, 2001, , 986-995.	1.0	2
68	Determining Player Skill in the Game of Go with Deep Neural Networks. Lecture Notes in Computer Science, 2016, , 188-195.	1.0	2
69	Importance of vaccine action and availability and epidemic severity for delaying the second vaccine dose. Scientific Reports, 2022, 12, 7638.	1.6	2
70	Back propagation in realistic parallel environment. , 0, , .		1
71	Autonomous Behavior of Computational Agents. , 2005, , 514-517.		1
72	Evolving neural network which control a robotic agent. , 2007, , .		1

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73	Hybrid evolutionary algorithm for multilayer perceptron networks with competitive performance. , 2007, , .		1
74	Ontology Description of Jade Computational Agents in OWL-DL. , 2010, , .		1
75	To contemplate quantitative and qualitative water features by neural networks method. Plant, Soil and Environment, 2002, 48, 322-326.	1.0	1
76	A Dynamic Programming Approach to Individual Initialization in Genetic Programming. , 2015, , .		1
77	Co-evolutionary genetic programming for dataset similarity induction. , 2015, , .		1
78	On the boundaries of the centroid of a class of fuzzy numbers. , 2019, , .		1
79	On the relationship between the centroid and the footprint of uncertainty of Interval Type-2 fuzzy numbers. , 2020, , .		1
80	Multiobjective Genetic Programming of Agent Decision Strategies. Advances in Intelligent Systems and Computing, 2014, , 173-182.	0.5	1
81	Multi-Agent Environment for Hybrid AI Models. , 2001, , 359-362.		1
82	Towards building computational agent schemes. , 2003, , 210-215.		1
83	Description and Generation of Computational Agents. Lecture Notes in Computer Science, 2006, , 318-329.	1.0	1
84	Rule-Based Analysis of Behaviour Learned by Evolutionary and Reinforcement Algorithms. Lecture Notes in Computer Science, 2008, , 284-291.	1.0	1
85	Behavior Emergence in Autonomous Robot Control by Means of Evolutionary Neural Networks. Lecture Notes in Electrical Engineering, 2009, , 235-247.	0.3	1
86	Evolving Decision Strategies for Computational Intelligence Agents. Lecture Notes in Computer Science, 2012, , 213-220.	1.0	1
87	Exploration and Exploitation Operators for Genetic Graph Clustering Algorithm. Lecture Notes in Computer Science, 2012, , 87-92.	1.0	1
88	Role-Based Management and Matchmaking in Data-Mining Multi-Agent Systems. Lecture Notes in Computer Science, 2013, , 22-35.	1.0	1
89	Unsupervised and Supervised Activity Analysis of Drone Sensor Data. Communications in Computer and Information Science, 2017, , 3-11.	0.4	1
90	Testing Error Estimates for Regularization and Radial Function Networks. Lecture Notes in Computer Science, 2008, , 549-554.	1.0	1

#	ARTICLE	IF	CITATIONS
91	Air Pollution Modelling by Machine Learning Methods. Modelling, 2021, 2, 659-674.	0.8	1
92	Yet another genetic algorithm for feed-forward neural networks. , 0, , .		0
93	Efficient parallel implementation of Kolmogorov superpositions. , 0, , .		0
94	Estimating and Measuring Performance of Computational Agents. , 0, , .		0
95	Cooperation of Computational Intelligence Agents. , 2006, , .		0
96	Hybrid Search Methods for Automatic Discovery of Computational Agent Schemes. , 2008, , .		0
97	Description, Composition, and Decision Support for Multiagent Computational Systems. , 2009, , .		0
98	Role Model of Search in Agents' Parameter-Space. , 2011, , .		0
99	An evolutionary algorithm for 2D semi-guillotinable circular saw cutting. , 2012, , .		0
100	Utilization of reductions and abstraction elimination in typed genetic programming. , 2014, , .		0
101	Multi-Objective Genetic Programming for Dataset Similarity Induction. , 2015, , .		0
102	Computational intelligence, fuzzy systems, and machine learning: Academic vs industrial learning. , 2015, , .		0
103	Search Techniques for Automated Proposal of Data Mining Schemes. Communications in Computer and Information Science, 2016, , 84-90.	0.4	0
104	Multi-objective evolution of machine learning workflows. , 2017, , .		0
105	Matching subtrees in genetic programming crossover operator. , 2017, , .		0
106	Algorithm Discovery with Monte-Carlo Search: Controlling the Size. , 2017, , .		0
107	Utilization of Genetic Programming to Solve a Simple Task Network Planning Problem. , 2018, , .		0
108	Variants of Learning Algorithm Based on Kolmogorov Theorem. Lecture Notes in Computer Science, 2002, , 536-543.	1.0	0

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109	Kernel Based Learning Methods: Regularization Networks and RBF Networks. Lecture Notes in Computer Science, 2005, , 124-136.	1.0	0
110	Faster Learning with Overlapping Neural Assemblies. Lecture Notes in Computer Science, 2006, , 226-233.	1.0	0
111	Towards Data-Driven Hybrid Composition of Data Mining Multi-agent Systems. Studies in Computational Intelligence, 2009, , 271-281.	0.7	0
112	Memetic Evolutionary Learning for Local Unit Networks. Lecture Notes in Computer Science, 2010, , 534-541.	1.0	0
113	Process Mediation. Advances in E-Business Research Series, 2011, , 77-104.	0.2	0
114	Evolutionary Learning of Regularization Networks with Multi-kernel Units. Lecture Notes in Computer Science, 2011, , 538-546.	1.0	0
115	Local Meta-models for ASM-MOMA. Lecture Notes in Computer Science, 2011, , 147-152.	1.0	0
116	Local Search Heuristics for Robotic Routing Planner. Lecture Notes in Computer Science, 2011, , 31-40.	1.0	0
117	Product Multi-kernels for Sensor Data Analysis. Lecture Notes in Computer Science, 2015, , 123-133.	1.0	0
118	Genens: An AutoML System for Ensemble Optimization Based on Developmental Genetic Programming. , 2020, , .		0
119	Multiobjective Evolution for Convolutional Neural Network Architecture Search. Lecture Notes in Computer Science, 2020, , 261-270.	1.0	0