

Mauro Castelli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

1,802
citations

20
h-index

39
g-index

156
ext. papers

2,304
ext. citations

3.7
avg, IF

5.51
L-index

#	Paper	IF	Citations
141	Machine learning for liquidity risk modelling: A supervisory perspective. <i>Economic Analysis and Policy</i> , 2022 ,	3.8	1
140	A novel binary classification approach based on geometric semantic genetic programming. <i>Swarm and Evolutionary Computation</i> , 2022 , 69, 101028	9.8	0
139	Salp Swarm Optimization: A critical review. <i>Expert Systems With Applications</i> , 2022 , 189, 116029	7.8	6
138	Approaching European Supervisory Risk Assessment with SupTech: A Proposal of an Early Warning System. <i>Risks</i> , 2022 , 10, 71	1.6	0
137	Combining Geometric Semantic GP with Gradient-Descent Optimization. <i>Lecture Notes in Computer Science</i> , 2022 , 19-33	0.9	1
136	A Weight and Meta-Analysis on the Academic Achievement of High School Students. <i>Education Sciences</i> , 2022 , 12, 287	2.2	
135	The Effect of Multi-Generational Selection in Geometric Semantic Genetic Programming. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4836	2.6	
134	GSGP-CUDA A CUDA framework for Geometric Semantic Genetic Programming. <i>SoftwareX</i> , 2022 , 18, 101085	2.7	0
133	Generative adversarial networks for generating synthetic features for Wi-Fi signal quality. <i>PLoS ONE</i> , 2021 , 16, e0260308	3.7	
132	Object detection for automatic cancer cell counting in zebrafish xenografts. <i>PLoS ONE</i> , 2021 , 16, e0260609	3.9	2
131	Structural similarity index (SSIM) revisited: A data-driven approach. <i>Expert Systems With Applications</i> , 2021 , 189, 116087	7.8	3
130	Impact of GAN-based lesion-focused medical image super-resolution on the robustness of radiomic features. <i>Scientific Reports</i> , 2021 , 11, 21361	4.9	4
129	Time Series Clustering of Online Gambling Activities for Addicted Users Detection. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2397	2.6	1
128	General Purpose Optimization Library (GPOL): A Flexible and Efficient Multi-Purpose Optimization Library in Python. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4774	2.6	1
127	Comparing Stacking Ensemble Techniques to Improve Musculoskeletal Fracture Image Classification. <i>Journal of Imaging</i> , 2021 , 7, 100	3.1	2
126	Combinatorial Optimization Problems and Metaheuristics: Review, Challenges, Design, and Development. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6449	2.6	4
125	Improving convolutional neural networks performance for image classification using test time augmentation: a case study using MURA dataset. <i>Health Information Science and Systems</i> , 2021 , 9, 33	5.1	3

124	Machine Learning Applied to Banking Supervision a Literature Review. <i>Risks</i> , 2021 , 9, 136	1.6	3
123	A machine learning approximation of the 2015 Portuguese high school student grades: A hybrid approach. <i>Education and Information Technologies</i> , 2021 , 26, 1527-1547	3.6	9
122	Genetic programming for stacked generalization. <i>Swarm and Evolutionary Computation</i> , 2021 , 65, 100913.8	1.8	1
121	Soft target and functional complexity reduction: A hybrid regularization method for genetic programming. <i>Expert Systems With Applications</i> , 2021 , 177, 114929	7.8	2
120	Algorithmic Music for Therapy: Effectiveness and Perspectives. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8833	2.6	1
119	Competitive intelligence: A unified view and modular definition. <i>Technological Forecasting and Social Change</i> , 2021 , 173, 121086	9.5	3
118	Remote Estimation of Target Height from Unmanned Aerial Vehicle (UAV) Images. <i>Remote Sensing</i> , 2020 , 12, 3602	5	1
117	Forecasting Electricity Prices: A Machine Learning Approach. <i>Algorithms</i> , 2020 , 13, 119	1.8	2
116	How Deeply to Fine-Tune a Convolutional Neural Network: A Case Study Using a Histopathology Dataset. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3359	2.6	19
115	Specializing Context-Free Grammars With a (1 + 1)-EA. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 960-973	15.6	3
114	Using artificial intelligence methods to assess academic achievement in public high schools of a European Union country. <i>Heliyon</i> , 2020 , 6, e04081	3.6	14
113	A Hybrid End-to-End Approach Integrating Conditional Random Fields into CNNs for Prostate Cancer Detection on MRI. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 338	2.6	8
112	Predicting Days on Market to Optimize Real Estate Sales Strategy. <i>Complexity</i> , 2020 , 2020, 1-22	1.6	0
111	A Novel Architecture to Classify Histopathology Images Using Convolutional Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2929	2.6	4
110	Explorations of the Semantic Learning Machine Neuroevolution Algorithm: Dynamic Training Data Use, Ensemble Construction Methods, and Deep Learning Perspectives. <i>Genetic and Evolutionary Computation</i> , 2020 , 39-62	0.8	
109	Is k Nearest Neighbours Regression Better Than GP?. <i>Lecture Notes in Computer Science</i> , 2020 , 244-261	0.9	
108	Machine learning techniques to predict the effectiveness of music therapy: A randomized controlled trial. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 185, 105160	6.9	5
107	A Parallel Particle Swarm Optimisation for Selecting Optimal Virtual Machine on Cloud Environment. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6538	2.6	1

106	Comparative Study of First Order Optimizers for Image Classification Using Convolutional Neural Networks on Histopathology Images. <i>Journal of Imaging</i> , 2020 , 6,	3.1	24
105	A Machine Learning Approach to Predict Air Quality in California. <i>Complexity</i> , 2020 , 2020, 1-23	1.6	20
104	Musculoskeletal Images Classification for Detection of Fractures Using Transfer Learning. <i>Journal of Imaging</i> , 2020 , 6,	3.1	7
103	Weighted Hierarchical Grammatical Evolution. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 476-488	10.2	4
102	Genetic programming in the twenty-first century: a bibliometric and content-based analysis from both sides of the fence. <i>Genetic Programming and Evolvable Machines</i> , 2020 , 21, 181-204	2	5
101	Transfer Learning with Convolutional Neural Networks for Diabetic Retinopathy Image Classification. A Review. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2021	2.6	32
100	Using artificial intelligence to overcome over-indebtedness and fight poverty. <i>Journal of Business Research</i> , 2020 , 131, 411-411	8.7	4
99	Semantic learning machine improves the CNN-Based detection of prostate cancer in non-contrast-enhanced MRI 2019 ,		3
98	Enhancing classification performance of convolutional neural networks for prostate cancer detection on magnetic resonance images 2019 ,		1
97	GSGP-C++ 2.0: A geometric semantic genetic programming framework. <i>SoftwareX</i> , 2019 , 10, 100313	2.7	4
96	Analysis of the proficiency of fully connected neural networks in the process of classifying digital images. Benchmark of different classification algorithms on high-level image features from convolutional layers. <i>Expert Systems With Applications</i> , 2019 , 135, 12-38	7.8	11
95	Comparing Deep and Machine Learning Approaches in Bioinformatics: A miRNA-Target Prediction Case Study. <i>Lecture Notes in Computer Science</i> , 2019 , 31-44	0.9	1
94	Genetic programming with semantic equivalence classes. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 453-469	9.8	7
93	. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 156-169	15.6	6
92	A distance between populations for n-points crossover in genetic algorithms. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 636-645	9.8	2
91	Comparing incomplete sequences via longest common subsequence. <i>Theoretical Computer Science</i> , 2019 , 796, 272-285	1.1	2
90	Extending Local Search in Geometric Semantic Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2019 , 775-787	0.9	1
89	Top k 2-Clubs in a Network: A Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2019 , 656-663	0.9	

88	Supporting Medical Decisions for Treating Rare Diseases Through Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2019 , 187-203	0.9	4
87	Computational Intelligence for Life Sciences. <i>Fundamenta Informaticae</i> , 2019 , 171, 57-80	1	2
86	Evolving multidimensional transformations for symbolic regression with M3GP. <i>Memetic Computing</i> , 2019 , 11, 111-126	3.4	15
85	Alignment-based genetic programming for real life applications. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 840-851	9.8	6
84	Forecasting performance of regional innovation systems using semantic-based genetic programming with local search optimizer. <i>Computers and Operations Research</i> , 2019 , 106, 179-190	4.6	10
83	A Parallel Multiobjective Metaheuristic for Multiple Sequence Alignment. <i>Journal of Computational Biology</i> , 2018 , 25, 1009-1022	1.7	2
82	An artificial intelligence system for predicting customer default in e-commerce. <i>Expert Systems With Applications</i> , 2018 , 104, 1-21	7.8	41
81	The impact of big data analytics on firms' high value business performance. <i>Information Systems Frontiers</i> , 2018 , 20, 209-222	4	111
80	A Characteristic-Based Framework for Multiple Sequence Aligners. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 41-51	10.2	9
79	Multiobjective characteristic-based framework for very-large multiple sequence alignment. <i>Applied Soft Computing Journal</i> , 2018 , 69, 719-736	7.5	0
78	Unveiling evolutionary algorithm representation with DU maps. <i>Genetic Programming and Evolvable Machines</i> , 2018 , 19, 351-389	2	5
77	A Multiple Expression Alignment Framework for Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2018 , 166-183	0.9	
76	Improving eQTL Analysis Using a Machine Learning Approach for Data Integration: A Logistic Model Tree Solution. <i>Journal of Computational Biology</i> , 2018 , 25, 1091-1105	1.7	2
75	Neuroevolution under unimodal error landscapes 2018 ,		4
74	Pruning Techniques for Mixed Ensembles of Genetic Programming Models. <i>Lecture Notes in Computer Science</i> , 2018 , 52-67	0.9	4
73	A Scalable Genetic Programming Approach to Integrate miRNA-Target Predictions: Comparing Different Parallel Implementations of M3GP. <i>Complexity</i> , 2018 , 2018, 1-13	1.6	1
72	Accurate High Performance Concrete Prediction with an Alignment-Based Genetic Programming System. <i>International Journal of Concrete Structures and Materials</i> , 2018 , 12,	2.8	3
71	Local Search is Underused in Genetic Programming. <i>Genetic and Evolutionary Computation</i> , 2018 , 119-137.	7.8	10

70	Learning the Structure of Bayesian Networks: A Quantitative Assessment of the Effect of Different Algorithmic Schemes. <i>Complexity</i> , 2018 , 2018, 1-12	1.6	12
69	EDDA-V2 [An Improvement of the Evolutionary Demes Despeciation Algorithm. <i>Lecture Notes in Computer Science</i> , 2018 , 185-196	0.9	2
68	Swarm intelligence for optimizing the parameters of multiple sequence aligners. <i>Swarm and Evolutionary Computation</i> , 2018 , 42, 16-28	9.8	4
67	Predicting per capita violent crimes in urban areas: an artificial intelligence approach. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017 , 8, 29-36	3.7	13
66	Multi-objective genetic algorithm with variable neighbourhood search for the electoral redistricting problem. <i>Swarm and Evolutionary Computation</i> , 2017 , 36, 37-51	9.8	20
65	An expert system for extracting knowledge from customers' reviews: The case of Amazon.com, Inc.. <i>Expert Systems With Applications</i> , 2017 , 84, 117-126	7.8	15
64	PSXO 2017 ,		2
63	Prediction of ships' position by analysing AIS data: an artificial intelligence approach. <i>International Journal of Web Engineering and Technology</i> , 2017 , 12, 253	0.3	1
62	Using biological knowledge for multiple sequence aligner decision making. <i>Information Sciences</i> , 2017 , 420, 278-298	7.7	1
61	Reducing Alignment Time Complexity of Ultra-Large Sets of Sequences. <i>Journal of Computational Biology</i> , 2017 , 24, 1144-1154	1.7	0
60	Geometric semantic genetic programming for biomedical applications: A state of the art upgrade 2017 ,		1
59	An initialization technique for geometric semantic GP based on demes evolution and despeciation 2017 ,		6
58	An evolutionary system for ozone concentration forecasting. <i>Information Systems Frontiers</i> , 2017 , 19, 1123-1132	4	6
57	The influence of population size in geometric semantic GP. <i>Swarm and Evolutionary Computation</i> , 2017 , 32, 110-120	9.8	5
56	Automatic modeling of a gas turbine using genetic programming: An experimental study. <i>Applied Soft Computing Journal</i> , 2017 , 50, 212-222	7.5	19
55	Unsure when to stop? 2017 ,		5
54	Stock index return forecasting: semantics-based genetic programming with local search optimiser. <i>International Journal of Bio-Inspired Computation</i> , 2017 , 10, 159	2.9	1
53	Prediction of relative position of CT slices using a computational intelligence system. <i>Applied Soft Computing Journal</i> , 2016 , 46, 537-542	7.5	8

52	Self-tuning geometric semantic Genetic Programming. <i>Genetic Programming and Evolvable Machines</i> , 2016 , 17, 55-74	2	12
51	Semantic genetic programming for fast and accurate data knowledge discovery. <i>Swarm and Evolutionary Computation</i> , 2016 , 26, 1-7	9.8	13
50	Multiclass Classification Through Multidimensional Clustering. <i>Genetic and Evolutionary Computation</i> , 2016 , 219-239	0.8	5
49	An Analysis of Geometric Semantic Crossover: A Computational Geometry Approach 2016 ,		3
48	An Artificial Intelligence System to Predict Quality of Service in Banking Organizations. <i>Computational Intelligence and Neuroscience</i> , 2016 , 2016, 9139380	3	3
47	Controlling Individuals Growth in Semantic Genetic Programming through Elitist Replacement. <i>Computational Intelligence and Neuroscience</i> , 2016 , 2016, 8326760	3	2
46	A Comparison Between Representations for Evolving Images. <i>Lecture Notes in Computer Science</i> , 2016 , 163-185	0.9	2
45	An evolutionary system for exploitation of fractured geothermal reservoirs. <i>Computational Geosciences</i> , 2016 , 20, 385-396	2.7	2
44	A Machine Learning Approach for the Integration of miRNA-Target Predictions 2016 ,		1
43	Parameter evaluation of geometric semantic genetic programming in pharmacokinetics. <i>International Journal of Bio-Inspired Computation</i> , 2016 , 8, 42	2.9	10
42	Parameterized tractability of the maximum-duo preservation string mapping problem. <i>Theoretical Computer Science</i> , 2016 , 646, 16-25	1.1	5
41	Arbitrarily Close Alignments in the Error Space 2016 ,		5
40	Geometric Semantic Genetic Programming with Local Search 2015 ,		21
39	Correcting gene tree by removal and modification: Tractability and approximability. <i>Journal of Discrete Algorithms</i> , 2015 , 33, 115-129		
38	How to Exploit Alignment in the Error Space: Two Different GP Models. <i>Genetic and Evolutionary Computation</i> , 2015 , 133-148	0.8	4
37	Forecasting short-term electricity consumption using a semantics-based genetic programming framework: The South Italy case. <i>Energy Economics</i> , 2015 , 47, 37-41	8.3	26
36	A C++ framework for geometric semantic genetic programming. <i>Genetic Programming and Evolvable Machines</i> , 2015 , 16, 73-81	2	65
35	Energy Consumption Forecasting Using Semantic-Based Genetic Programming with Local Search Optimizer. <i>Computational Intelligence and Neuroscience</i> , 2015 , 2015, 971908	3	12

34	Predicting Burned Areas of Forest Fires: an Artificial Intelligence Approach. <i>Fire Ecology</i> , 2015 , 11, 106-118	3	39
33	Prediction of energy performance of residential buildings: A genetic programming approach. <i>Energy and Buildings</i> , 2015 , 102, 67-74	7	75
32	Improving Maritime Awareness with Semantic Genetic Programming and Linear Scaling: Prediction of Vessels Position Based on AIS Data. <i>Lecture Notes in Computer Science</i> , 2015 , 732-744	0.9	3
31	A geometric semantic genetic programming system for the electoral redistricting problem. <i>Neurocomputing</i> , 2015 , 154, 200-207	5.4	8
30	Electricity Demand Modelling with Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2015 , 213-225	1.8	3
29	A survey of semantic methods in genetic programming. <i>Genetic Programming and Evolvable Machines</i> , 2014 , 15, 195-214	2	107
28	Corrections to Semantic Search Based Genetic Programming and the Effect of Introns Deletion [Jan 14 103-113]. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 565-565	10.2	1
27	Prediction of the Unified Parkinson Disease Rating Scale assessment using a genetic programming system with geometric semantic genetic operators. <i>Expert Systems With Applications</i> , 2014 , 41, 4608-4616	7.8	42
26	Genetic algorithm with variable neighborhood search for the optimal allocation of goods in shop shelves. <i>Operations Research Letters</i> , 2014 , 42, 355-360	1	23
25	Geometric Selective Harmony Search. <i>Information Sciences</i> , 2014 , 279, 468-482	7.7	32
24	Semantic Search-Based Genetic Programming and the Effect of Intron Deletion. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 103-13	10.2	41
23	Geometric Semantic Genetic Programming for Real Life Applications. <i>Genetic and Evolutionary Computation</i> , 2014 , 191-209	0.8	36
22	ESAGP: A Semantic GP Framework Based on Alignment in the Error Space. <i>Lecture Notes in Computer Science</i> , 2014 , 150-161	0.9	10
21	A Multi-dimensional Genetic Programming Approach for Multi-class Classification Problems. <i>Lecture Notes in Computer Science</i> , 2014 , 48-60	0.9	16
20	A new genetic programming framework based on reaction systems. <i>Genetic Programming and Evolvable Machines</i> , 2013 , 14, 457-471	2	1
19	A hybrid genetic algorithm for the repetition free longest common subsequence problem. <i>Operations Research Letters</i> , 2013 , 41, 644-649	1	10
18	Better GP benchmarks: community survey results and proposals. <i>Genetic Programming and Evolvable Machines</i> , 2013 , 14, 3-29	2	144
17	Prediction of high performance concrete strength using Genetic Programming with geometric semantic genetic operators. <i>Expert Systems With Applications</i> , 2013 , 40, 6856-6862	7.8	77

16	An efficient implementation of geometric semantic genetic programming for anticoagulation level prediction in pharmacogenetics 2013 ,		2
15	Land Cover/Land Use Multiclass Classification Using GP with Geometric Semantic Operators. <i>Lecture Notes in Computer Science</i> , 2013 , 334-343	0.9	6
14	Prediction of Forest Aboveground Biomass: An Exercise on Avoiding Overfitting. <i>Lecture Notes in Computer Science</i> , 2013 , 407-417	0.9	6
13	A New Implementation of Geometric Semantic GP and Its Application to Problems in Pharmacokinetics. <i>Lecture Notes in Computer Science</i> , 2013 , 205-216	0.9	64
12	An Efficient Implementation of Geometric Semantic Genetic Programming for Anticoagulation Level Prediction in Pharmacogenetics. <i>Lecture Notes in Computer Science</i> , 2013 , 78-89	0.9	11
11	Genetic programming needs better benchmarks 2012 ,		145
10	Parameter tuning of evolutionary reactions systems 2012 ,		4
9	Evolutionary Reaction Systems. <i>Lecture Notes in Computer Science</i> , 2012 , 13-25	0.9	3
8	The K landscapes 2011 ,		15
7	The effect of selection from old populations in genetic algorithms 2011 ,		1
6	A Quantitative Study of Learning and Generalization in Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2011 , 25-36	0.9	14
5	A Method to Reuse Old Populations in Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2011 , 138-152	0.9	1
4	Multi Objective Genetic Programming for Feature Construction in Classification Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 503-506	0.9	
3	Measuring bloat, overfitting and functional complexity in genetic programming 2010 ,		68
2	A comparison of the generalization ability of different genetic programming frameworks 2010 ,		11
1	Classification of Oncologic Data with Genetic Programming. <i>Journal of Artificial Evolution and Applications</i> , 2009 , 2009, 1-13		3