

Fabio Caraffini

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

59
papers

876
citations

15
h-index

27
g-index

73
ext. papers

1,044
ext. citations

5
avg, IF

5.07
L-index

#	Paper	IF	Citations
59	Analysis of Structural Bias in Differential Evolution Configurations. <i>Studies in Computational Intelligence</i> , 2022 , 1-22	0.8	1
58	Regression Analysis of Macroeconomic Conditions and Capital Structures of Publicly Listed British Firms. <i>Mathematics</i> , 2022 , 10, 1119	2.3	3
57	Using Optimisation Meta-Heuristics for the Roughness Estimation Problem in River Flow Analysis. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10575	2.6	1
56	Evolving Deep Learning Convolutional Neural Networks for Early COVID-19 Detection in Chest X-ray Images. <i>Mathematics</i> , 2021 , 9, 1002	2.3	14
55	Is there anisotropy in structural bias? 2021 ,		3
54	Emergence of structural bias in differential evolution 2021 ,		2
53	Fuzzy convolutional deep-learning model to estimate the operational risk capital using multi-source risk events. <i>Applied Soft Computing Journal</i> , 2021 , 107, 107381	7.5	2
52	Differential evolution outside the box. <i>Information Sciences</i> , 2021 , 581, 587-587	7.7	8
51	SCIPS: A serious game using a guidance mechanic to scaffold effective training for cyber security. <i>Information Sciences</i> , 2021 , 580, 524-540	7.7	1
50	Using Data Mining in Educational Administration: A Case Study on Improving School Attendance. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3116	2.6	6
49	Cooperative and distributed decision-making in a multi-agent perception system for improvised land mines detection. <i>Information Fusion</i> , 2020 , 64, 32-49	16.7	11
48	Efficient Computation of the Nonlinear Schrödinger Equation with Time-Dependent Coefficients. <i>Mathematics</i> , 2020 , 8, 374	2.3	3
47	The SOS Platform: Designing, Tuning and Statistically Benchmarking Optimisation Algorithms. <i>Mathematics</i> , 2020 , 8, 785	2.3	12
46	Can Compact Optimisation Algorithms Be Structurally Biased?. <i>Lecture Notes in Computer Science</i> , 2020 , 229-242	0.9	3
45	Re-sampled inheritance compact optimization. <i>Knowledge-Based Systems</i> , 2020 , 208, 106416	7.3	4
44	Training Data Set Assessment for Decision-Making in a Multiagent Landmine Detection Platform 2020 ,		2
43	Shallow buried improvised explosive device detection via convolutional neural networks. <i>Integrated Computer-Aided Engineering</i> , 2020 , 27, 403-416	5.2	6

42	A Robust Decision-Making Framework Based on Collaborative Agents. <i>IEEE Access</i> , 2020 , 8, 150974-150988	2
41	Oil Palm Detection via Deep Transfer Learning 2020 ,	9
40	Can Single Solution Optimisation Methods Be Structurally Biased? 2020 ,	3
39	2020 ,	2
38	Identifying Parkinson Disease Through the Classification of Audio Recording Data 2020 ,	4
37	A product-centric data mining algorithm for targeted promotions. <i>Journal of Retailing and Consumer Services</i> , 2020 , 54, 101940	8.5 15
36	Validation of convolutional layers in deep learning models to identify patterns in multispectral images 2019 ,	7
35	Infeasibility and structural bias in differential evolution. <i>Information Sciences</i> , 2019 , 496, 161-179	7.7 43
34	A comparison of three differential evolution strategies in terms of early convergence with different population sizes 2019 ,	10
33	Improving (1+1) covariance matrix adaptation evolution strategy: A simple yet efficient approach 2019 ,	6
32	Structural bias in differential evolution: A preliminary study 2019 ,	12
31	Compact Optimization Algorithms with Re-Sampled Inheritance. <i>Lecture Notes in Computer Science</i> , 2019 , 523-534	0.9 6
30	A Clustering System for Dynamic Data Streams Based on Metaheuristic Optimisation. <i>Mathematics</i> , 2019 , 7, 1229	2.3 15
29	An Optimisation-Driven Prediction Method for Automated Diagnosis and Prognosis. <i>Mathematics</i> , 2019 , 7, 1051	2.3 16
28	Application of uninorms to market basket analysis. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 39-49	8.4 15
27	HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. <i>Information Sciences</i> , 2019 , 477, 186-202	7.7 31
26	A study on rotation invariance in differential evolution. <i>Swarm and Evolutionary Computation</i> , 2019 , 50, 100436	9.8 15
25	Rotation Invariance and Rotated Problems: An Experimental Study on Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2018 , 597-614	0.9 5

24	Large Scale Problems in Practice: The Effect of Dimensionality on the Interaction Among Variables. <i>Lecture Notes in Computer Science</i> , 2017 , 636-652	0.9	11
23	Multicriteria adaptive differential evolution for global numerical optimization. <i>Integrated Computer-Aided Engineering</i> , 2015 , 22, 103-107	5.2	44
22	Structural bias in population-based algorithms. <i>Information Sciences</i> , 2015 , 298, 468-490	7.7	48
21	Cluster-Based Population Initialization for differential evolution frameworks. <i>Information Sciences</i> , 2015 , 297, 216-235	7.7	66
20	Continuous Parameter Pools in Ensemble Differential Evolution 2015 ,		5
19	Multi-strategy coevolving aging particle optimization. <i>International Journal of Neural Systems</i> , 2014 , 24, 1450008	6.2	54
18	A Separability Prototype for Automatic Memes with Adaptive Operator Selection 2014 ,		6
17	An analysis on separability for Memetic Computing automatic design. <i>Information Sciences</i> , 2014 , 265, 1-22	7.7	76
16	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. <i>Lecture Notes in Computer Science</i> , 2014 , 615-626	0.9	11
15	A CMA-ES super-fit scheme for the re-sampled inheritance search 2013 ,		20
14	Memory-saving memetic computing for path-following mobile robots. <i>Applied Soft Computing Journal</i> , 2013 , 13, 2003-2016	7.5	28
13	Re-sampled inheritance search: high performance despite the simplicity. <i>Soft Computing</i> , 2013 , 17, 2235-2356	3.3	25
12	Micro-differential evolution with extra moves along the axes 2013 ,		10
11	Re-sampling search: A seriously simple memetic approach with a high performance 2013 ,		2
10	Parallel memetic structures. <i>Information Sciences</i> , 2013 , 227, 60-82	7.7	87
9	Single particle algorithms for continuous optimization 2013 ,		3
8	Super-fit Multicriteria Adaptive Differential Evolution 2013 ,		28
7	Focusing the search: a progressively shrinking memetic computing framework. <i>International Journal of Innovative Computing and Applications</i> , 2013 , 5, 127	0.4	2

6	Compact Differential Evolution Light: High Performance Despite Limited Memory Requirement and Modest Computational Overhead. <i>Journal of Computer Science and Technology</i> , 2012 , 27, 1056-1076	1.7	31
5	The importance of being structured: A comparative study on multi stage memetic approaches 2012 ,		3
4	Meta-Lamarckian learning in three stage optimal memetic exploration 2012 ,		3
3	Three variants of three Stage Optimal Memetic Exploration for handling non-separable fitness landscapes 2012 ,		2
2	Robot Base Disturbance Optimization with Compact Differential Evolution Light. <i>Lecture Notes in Computer Science</i> , 2012 , 285-294	0.9	4
1	Can Single Solution Optimisation Methods Be Structurally Biased?		2