Fabio Caraffini

List of Publications by Citations

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	Parallel memetic structures. *Information Sciences*, **2013**, 227, 60-82	7.7	87
58	An analysis on separability for Memetic Computing automatic design. *Information Sciences*, **2014**, 265, 1-22	7.7	76
57	Cluster-Based Population Initialization for differential evolution frameworks. *Information Sciences*, **2015**, 297, 216-235	7.7	66
56	Multi-strategy coevolving aging particle optimization. *International Journal of Neural Systems*, **2014**, 24, 1450008	6.2	54
55	Structural bias in population-based algorithms. *Information Sciences*, **2015**, 298, 468-490	7.7	48
54	Multicriteria adaptive differential evolution for global numerical optimization. *Integrated Computer-Aided Engineering*, **2015**, 22, 103-107	5.2	44
53	Infeasibility and structural bias in differential evolution. *Information Sciences*, **2019**, 496, 161-179	7.7	43
52	Compact Differential Evolution Light: High Performance Despite Limited Memory Requirement and Modest Computational Overhead. *Journal of Computer Science and Technology*, **2012**, 27, 1056-1076	1.7	31
51	HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. *Information Sciences*, **2019**, 477, 186-202	7.7	31
50	Memory-saving memetic computing for path-following mobile robots. *Applied Soft Computing Journal*, **2013**, 13, 2003-2016	7.5	28
49	Super-fit Multicriteria Adaptive Differential Evolution **2013**,		28
48	Re-sampled inheritance search: high performance despite the simplicity. *Soft Computing*, **2013**, 17, 2235-2256	3.3	25
47	A CMA-ES super-fit scheme for the re-sampled inheritance search **2013**,		20
46	An Optimisation-Driven Prediction Method for Automated Diagnosis and Prognosis. *Mathematics*, **2019**, 7, 1051	2.3	16
45	A Clustering System for Dynamic Data Streams Based on Metaheuristic Optimisation. *Mathematics*, **2019**, 7, 1229	2.3	15
44	Application of uninorms to market basket analysis. *International Journal of Intelligent Systems*, **2019**, 34, 39-49	8.4	15
43	A study on rotation invariance in differential evolution. *Swarm and Evolutionary Computation*, **2019**, 50, 100436	9.8	15

42	A product-centric data mining algorithm for targeted promotions. *Journal of Retailing and Consumer Services*, **2020**, 54, 101940	8.5	15
41	Evolving Deep Learning Convolutional Neural Networks for Early COVID-19 Detection in Chest X-ray Images. *Mathematics*, **2021**, 9, 1002	2.3	14
40	Structural bias in differential evolution: A preliminary study **2019**,		12
39	The SOS Platform: Designing, Tuning and Statistically Benchmarking Optimisation Algorithms. *Mathematics*, **2020**, 8, 785	2.3	12
38	Large Scale Problems in Practice: The Effect of Dimensionality on the Interaction Among Variables. *Lecture Notes in Computer Science*, **2017**, 636-652	0.9	11
37	Cooperative and distributed decision-making in a multi-agent perception system for improvised land mines detection. *Information Fusion*, **2020**, 64, 32-49	16.7	11
36	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. *Lecture Notes in Computer Science*, **2014**, 615-626	0.9	11
35	A comparison of three differential evolution strategies in terms of early convergence with different population sizes **2019**,		10
34	Micro-differential evolution with extra moves along the axes **2013**,		10
33	Oil Palm Detection via Deep Transfer Learning **2020**,		9
32	Differential evolution outside the box. *Information Sciences*, **2021**, 581, 587-587	7.7	8
31	Validation of convolutional layers in deep learning models to identify patterns in multispectral images **2019**,		7
30	Improving (1+1) covariance matrix adaptation evolution strategy: A simple yet efficient approach **2019**,		6
29	Using Data Mining in Educational Administration: A Case Study on Improving School Attendance. *Applied Sciences (Switzerland)*, **2020**, 10, 3116	2.6	6
28	A Separability Prototype for Automatic Memes with Adaptive Operator Selection **2014**,		6
27	Compact Optimization Algorithms with Re-Sampled Inheritance. *Lecture Notes in Computer Science*, **2019**, 523-534	0.9	6
26	Shallow buried improvised explosive device detection via convolutional neural networks. *Integrated Computer-Aided Engineering*, **2020**, 27, 403-416	5.2	6
25	Continuous Parameter Pools in Ensemble Differential Evolution **2015**,		5

24	Rotation Invariance and Rotated Problems: An Experimental Study on Differential Evolution. *Lecture Notes in Computer Science*, **2018**, 597-614	0.9	5
23	Robot Base Disturbance Optimization with Compact Differential Evolution Light. *Lecture Notes in Computer Science*, **2012**, 285-294	0.9	4
22	Re-sampled inheritance compact optimization. *Knowledge-Based Systems*, **2020**, 208, 106416	7.3	4
21	Identifying Parkinson Disease Through the Classification of Audio Recording Data **2020**,		4
20	Efficient Computation of the Nonlinear Schr inger Equation with Time-Dependent Coefficients. *Mathematics*, **2020**, 8, 374	2.3	3
19	The importance of being structured: A comparative study on multi stage memetic approaches **2012** ,		3
18	Meta-Lamarckian learning in three stage optimal memetic exploration **2012**,		3
17	Single particle algorithms for continuous optimization **2013**,		3
16	Can Compact Optimisation Algorithms Be Structurally Biased?. *Lecture Notes in Computer Science*, **2020**, 229-242	0.9	3
15	Can Single Solution Optimisation Methods Be Structurally Biased? **2020**,		3
14	Is there anisotropy in structural bias? **2021**,		3
13	Regression Analysis of Macroeconomic Conditions and Capital Structures of Publicly Listed British Firms. *Mathematics*, **2022**, 10, 1119	2.3	3
12	Re-sampling search: A seriously simple memetic approach with a high performance **2013**,		2
11	Three variants of three Stage Optimal Memetic Exploration for handling non-separable fitness landscapes **2012**,		2
10	Focusing the search: a progressively shrinking memetic computing framework. *International Journal of Innovative Computing and Applications*, **2013**, 5, 127	0.4	2
9	Can Single Solution Optimisation Methods Be Structurally Biased?		2
8	Training Data Set Assessment for Decision-Making in a Multiagent Landmine Detection Platform **2020**,		2
7	A Robust Decision-Making Framework Based on Collaborative Agents. *IEEE Access*, **2020**, 8, 150974-150988	3.9	2

6	**2020**,		2
5	Emergence of structural bias in differential evolution **2021**,		2
4	Fuzzy convolutional deep-learning model to estimate the operational risk capital using multi-source risk events. *Applied Soft Computing Journal*, **2021**, 107, 107381	7.5	2
3	Analysis of Structural Bias in Differential Evolution Configurations. *Studies in Computational Intelligence*, **2022**, 1-22	0.8	1
2	Using Optimisation Meta-Heuristics for the Roughness Estimation Problem in River Flow Analysis. *Applied Sciences (Switzerland)*, **2021**, 11, 10575	2.6	1
1	SCIPS: A serious game using a guidance mechanic to scaffold effective training for cyber security. *Information Sciences*, **2021**, 580, 524-540	7.7	1