

Ferrante Neri

List of Publications by Citations

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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.

147
papers

5,102
citations

34
h-index

69
g-index

176
ext. papers

5,914
ext. citations

3.7
avg, IF

6.41
L-index

#	Paper	IF	Citations
147	Recent advances in differential evolution: a survey and experimental analysis. <i>Artificial Intelligence Review</i> , 2010 , 33, 61-106	9.7	696
146	Memetic algorithms and memetic computing optimization: A literature review. <i>Swarm and Evolutionary Computation</i> , 2012 , 2, 1-14	9.8	380
145	An optimization spiking neural p system for approximately solving combinatorial optimization problems. <i>International Journal of Neural Systems</i> , 2014 , 24, 1440006	6.2	214
144	Compact Differential Evolution. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 32-54	15.6	191
143	A fast adaptive memetic algorithm for online and offline control design of PMSM drives. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 28-41		177
142	Scale factor local search in differential evolution. <i>Memetic Computing</i> , 2009 , 1, 153-171	3.4	146
141	Memetic Compact Differential Evolution for Cartesian Robot Control. <i>IEEE Computational Intelligence Magazine</i> , 2010 , 5, 54-65	5.6	139
140	Ockham's Razor in memetic computing: Three stage optimal memetic exploration. <i>Information Sciences</i> , 2012 , 188, 17-43	7.7	114
139	Spiking Neural P Systems with Communication on Request. <i>International Journal of Neural Systems</i> , 2017 , 27, 1750042	6.2	112
138	Algorithmic design issues in adaptive differential evolution schemes: Review and taxonomy. <i>Swarm and Evolutionary Computation</i> , 2018 , 43, 284-311	9.8	105
137	Disturbed Exploitation compact Differential Evolution for limited memory optimization problems. <i>Information Sciences</i> , 2011 , 181, 2469-2487	7.7	104
136	Compact Particle Swarm Optimization. <i>Information Sciences</i> , 2013 , 239, 96-121	7.7	101
135	A study on scale factor in distributed differential evolution. <i>Information Sciences</i> , 2011 , 181, 2488-2511	7.7	101
134	Super-fit control adaptation in memetic differential evolution frameworks. <i>Soft Computing</i> , 2009 , 13, 811-831	3.5	101
133	An enhanced memetic differential evolution in filter design for defect detection in paper production. <i>Evolutionary Computation</i> , 2008 , 16, 529-55	4.3	97
132	Parallel memetic structures. <i>Information Sciences</i> , 2013 , 227, 60-82	7.7	87
131	Optimization of Delayed-State Kalman-Filter-Based Algorithm via Differential Evolution for Sensorless Control of Induction Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 385-394	8.9	86

130	Cloud-assisted secure eHealth systems for tamper-proofing EHR via blockchain. <i>Information Sciences</i> , 2019 , 485, 427-440	7.7	86
129	An adaptive multimeme algorithm for designing HIV multidrug therapies. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2007 , 4, 264-78	3	84
128	Distributed differential evolution with explorative-exploitative population families. <i>Genetic Programming and Evolvable Machines</i> , 2009 , 10, 343-371	2	78
127	Scale factor inheritance mechanism in distributed differential evolution. <i>Soft Computing</i> , 2010 , 14, 1187-1207	3.5	78
126	Simplified and Yet Turing Universal Spiking Neural P Systems with Communication on Request. <i>International Journal of Neural Systems</i> , 2018 , 28, 1850013	6.2	78
125	An analysis on separability for Memetic Computing automatic design. <i>Information Sciences</i> , 2014 , 265, 1-22	7.7	76
124	Shuffle or update parallel differential evolution for large-scale optimization. <i>Soft Computing</i> , 2011 , 15, 2089-2107	3.5	73
123	Design and implementation of membrane controllers for trajectory tracking of nonholonomic wheeled mobile robots. <i>Integrated Computer-Aided Engineering</i> , 2015 , 23, 15-30	5.2	68
122	Cluster-Based Population Initialization for differential evolution frameworks. <i>Information Sciences</i> , 2015 , 297, 216-235	7.7	66
121	A fast hypervolume driven selection mechanism for many-objective optimisation problems. <i>Swarm and Evolutionary Computation</i> , 2017 , 34, 50-67	9.8	65
120	Covariance matrix adaptation pareto archived evolution strategy with hypervolume-sorted adaptive grid algorithm. <i>Integrated Computer-Aided Engineering</i> , 2016 , 23, 313-329	5.2	60
119	Progressive preference articulation for decision making in multi-objective optimisation problems. <i>Integrated Computer-Aided Engineering</i> , 2017 , 24, 315-335	5.2	55
118	Multi-strategy coevolving aging particle optimization. <i>International Journal of Neural Systems</i> , 2014 , 24, 1450008	6.2	54
117	Enhancing distributed differential evolution with multicultural migration for global numerical optimization. <i>Information Sciences</i> , 2013 , 247, 72-93	7.7	54
116	An adaptive evolutionary algorithm with intelligent mutation local searchers for designing multidrug therapies for HIV. <i>Applied Intelligence</i> , 2007 , 27, 219-235	4.9	45
115	Multicriteria adaptive differential evolution for global numerical optimization. <i>Integrated Computer-Aided Engineering</i> , 2015 , 22, 103-107	5.2	44
114	A memetic Differential Evolution approach in noisy optimization. <i>Memetic Computing</i> , 2010 , 2, 111-135	3.4	42
113	On memetic Differential Evolution frameworks: A study of advantages and limitations in hybridization 2008 ,		34

112	A Complete Arithmetic Calculator Constructed from Spiking Neural P Systems and its Application to Information Fusion. <i>International Journal of Neural Systems</i> , 2021 , 31, 2050055	6.2	33
111	An Adaptive Optimization Spiking Neural P System for Binary Problems. <i>International Journal of Neural Systems</i> , 2021 , 31, 2050054	6.2	33
110	A membrane parallel rapidly-exploring random tree algorithm for robotic motion planning. <i>Integrated Computer-Aided Engineering</i> , 2020 , 27, 121-138	5.2	32
109	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
108	HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. <i>Information Sciences</i> , 2019 , 477, 186-202	7.7	31
107	Memory-saving memetic computing for path-following mobile robots. <i>Applied Soft Computing Journal</i> , 2013 , 13, 2003-2016	7.5	28
106	Super-fit Multicriteria Adaptive Differential Evolution 2013 ,		28
105	Artificial compound eye: a survey of the state-of-the-art. <i>Artificial Intelligence Review</i> , 2017 , 48, 573-603	9.7	27
104	Surrogate assisted local search in PMSM drive design. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2008 , 27, 573-592	0.7	26
103	Re-sampled inheritance search: high performance despite the simplicity. <i>Soft Computing</i> , 2013 , 17, 2235-2356	3.3	25
102	A study on scale factor/crossover interaction in distributed differential evolution. <i>Artificial Intelligence Review</i> , 2013 , 39, 195-224	9.7	25
101	Super-fit and population size reduction in compact Differential Evolution 2011 ,		24
100	Fitness diversity based adaptation in Multimeme Algorithms:A comparative study 2007 ,		24
99	A Memetic Differential Evolution in Filter Design for Defect Detection in Paper Production 2007 , 320-329		24
98	Differential Evolution with Fitness Diversity Self-adaptation. <i>Studies in Computational Intelligence</i> , 2009 , 199-234	0.8	23
97	A Multi-Objective Evolutionary Approach Based on Graph-in-Graph for Neural Architecture Search of Convolutional Neural Networks. <i>International Journal of Neural Systems</i> , 2021 , 31, 2150035	6.2	23
96	. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 1-10	4.1	23
95	A CMA-ES super-fit scheme for the re-sampled inheritance search 2013 ,		20

94	Noise analysis compact differential evolution. <i>International Journal of Systems Science</i> , 2012 , 43, 1248-1267	17
93	Differential Evolution with Concurrent Fitness Based Local Search 2013 ,	15
92	Compact Optimization. <i>Intelligent Systems Reference Library</i> , 2013 , 337-364	0.8 15
91	Towards Artificial Speech Therapy: A Neural System for Impaired Speech Segmentation. <i>International Journal of Neural Systems</i> , 2016 , 26, 1650023	6.2 15
90	A study on rotation invariance in differential evolution. <i>Swarm and Evolutionary Computation</i> , 2019 , 50, 100436	9.8 15
89	On Algorithmic Descriptions and Software Implementations for Multi-objective Optimisation: A Comparative Study. <i>SN Computer Science</i> , 2020 , 1, 1	2 13
88	Geometry based three-dimensional image processing method for electronic cluster eye. <i>Integrated Computer-Aided Engineering</i> , 2018 , 25, 213-228	5.2 13
87	Prudent-Daring vs Tolerant Survivor Selection Schemes in Control Design of Electric Drives. <i>Lecture Notes in Computer Science</i> , 2006 , 805-809	0.9 13
86	Integrating Cross-Dominance Adaptation in Multi-Objective Memetic Algorithms. <i>Studies in Computational Intelligence</i> , 2009 , 325-351	0.8 12
85	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
84	Evolutionary Optimization 2012 , 1-29	11
83	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
82	Micro-differential evolution with extra moves along the axes 2013 ,	10
81	An adaptive local search algorithm for real-valued dynamic optimization 2015 ,	10
80	Opposition-Based Learning in Compact Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2011 , 264-273	0.9 10
79	Enhancing Differential Evolution frameworks by scale factor local search - Part I 2009 ,	10
78	Nature that Breeds Solutions1-24	10
77	A multi-aperture optical flow estimation method for an artificial compound eye. <i>Integrated Computer-Aided Engineering</i> , 2019 , 26, 139-157	5.2 9

76	Diversity Management in Memetic Algorithms. <i>Studies in Computational Intelligence</i> , 2012 , 153-165	0.8	9
75	Local Search. <i>Studies in Computational Intelligence</i> , 2012 , 29-41	0.8	9
74	Ensemble strategies in Compact Differential Evolution 2011 ,		9
73	Composed compact differential evolution. <i>Evolutionary Intelligence</i> , 2011 , 4, 17-29	1.7	9
72	A Memetic-Neural Approach to Discover Resources in P2P Networks. <i>Studies in Computational Intelligence</i> , 2008 , 113-129	0.8	9
71	Differential Evolution with Noise Analyzer. <i>Lecture Notes in Computer Science</i> , 2009 , 715-724	0.9	9
70	Contiguous Binomial Crossover in Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2012 , 145-153	0.9	9
69	Multi-behaviors coordination controller design with enzymatic numerical P systems for robots. <i>Integrated Computer-Aided Engineering</i> , 2021 , 28, 119-140	5.2	9
68	A Primer on Memetic Algorithms. <i>Studies in Computational Intelligence</i> , 2012 , 43-52	0.8	8
67	Application of Memetic Differential Evolution frameworks to PMSM drive design 2008 ,		8
66	Analysis of gray scale watermark in RGB host using SVD and PSO 2014 ,		7
65	Enhancing Differential Evolution frameworks by scale factor local search - part II 2009 ,		7
64	A new evolutionary method for designing grounding grids by touch voltage control 2004 ,		7
63	Linear Algebra for Computational Sciences and Engineering 2019 ,		6
62	A Separability Prototype for Automatic Memes with Adaptive Operator Selection 2014 ,		6
61	Memetic Algorithms in Continuous Optimization. <i>Studies in Computational Intelligence</i> , 2012 , 121-134	0.8	6
60	Global supervision for compact Differential Evolution 2011 ,		6
59	Hierarchical Evolutionary Algorithms and Noise Compensation via Adaptation. <i>Studies in Computational Intelligence</i> , 2007 , 345-369	0.8	6

58	Differential Evolution with Scale Factor Local Search for Large Scale Problems. <i>Adaptation, Learning, and Optimization</i> , 2010 , 297-323	0.7	6
57	Generalised Pattern Search Based on Covariance Matrix Diagonalisation. <i>SN Computer Science</i> , 2021 , 2, 1	2	6
56	Continuous Parameter Pools in Ensemble Differential Evolution 2015 ,		5
55	Changing factor based food sources in artificial bee colony 2014 ,		5
54	Two algorithmic enhancements for the parallel differential evolution. <i>International Journal of Innovative Computing and Applications</i> , 2011 , 3, 20	0.4	5
53	A differential evolution for optimisation in noisy environment. <i>International Journal of Bio-Inspired Computation</i> , 2010 , 2, 152	2.9	5
52	A fast evolutionary-deterministic algorithm to study multimodal current fields under safety level constraints. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2006 , 25, 599-608	0.7	5
51	A Local Search for Numerical Optimisation Based on Covariance Matrix Diagonalisation. <i>Lecture Notes in Computer Science</i> , 2020 , 3-19	0.9	5
50	Rotation Invariance and Rotated Problems: An Experimental Study on Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2018 , 597-614	0.9	5
49	Estimation Distribution Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2010 , 522-531	0.9	5
48	Adaptive Covariance Pattern Search. <i>Lecture Notes in Computer Science</i> , 2021 , 178-193	0.9	5
47	Memetic Algorithms in Engineering and Design. <i>Studies in Computational Intelligence</i> , 2012 , 241-260	0.8	4
46	A Surrogate Assisted Hooke-Jeeves Algorithm to Optimize the Control System of a PMSM Drive 2006 ,		4
45	Road Lighting Installation Design to Optimize Energy Use by Genetic Algorithms 2005 ,		4
44	Self-Adaptive Particle Swarm Optimization-Based Echo State Network for Time Series Prediction. <i>International Journal of Neural Systems</i> , 2021 , 31, 2150057	6.2	4
43	An Adaptive Global-Local Memetic Algorithm to Discover Resources in P2P Networks 2007 , 61-70		4
42	Robot Base Disturbance Optimization with Compact Differential Evolution Light. <i>Lecture Notes in Computer Science</i> , 2012 , 285-294	0.9	4
41	The importance of being structured: A comparative study on multi stage memetic approaches 2012 ,		3

40	Meta-Lamarckian learning in three stage optimal memetic exploration 2012 ,		3
39	Single particle algorithms for continuous optimization 2013 ,		3
38	Noise Analysis Compact Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2010 , 602-611	0.9	3
37	A Genetic Algorithm Method for Determining the Maximum Touch Voltage Generated by a Grounding System 2003 , 85-92		3
36	Memetic Variation Local Search vs. Life-Time Learning in Electrical Impedance Tomography. <i>Lecture Notes in Computer Science</i> , 2009 , 615-624	0.9	3
35	Memetic Differential Evolution Frameworks in Filter Design for Defect Detection in Paper Production. <i>Studies in Computational Intelligence</i> , 2009 , 113-131	0.8	3
34	A Layered Spiking Neural System for Classification Problems.. <i>International Journal of Neural Systems</i> , 2022 , 2250023	6.2	3
33	Linear Algebra for Computational Sciences and Engineering 2016 ,		2
32	Re-sampling search: A seriously simple memetic approach with a high performance 2013 ,		2
31	Three variants of three Stage Optimal Memetic Exploration for handling non-separable fitness landscapes 2012 ,		2
30	Compact Bacterial Foraging Optimization. <i>Lecture Notes in Computer Science</i> , 2012 , 84-92	0.9	2
29	Focusing the search: a progressively shrinking memetic computing framework. <i>International Journal of Innovative Computing and Applications</i> , 2013 , 5, 127	0.4	2
28	Differential evolution optimization of DSKF algorithm for sensorless SFO control of IM drives 2008 ,		2
27	Optimization of DSKF-based algorithm for sensorless SFO-SM control of IMs using differential evolution 2008 ,		2
26	A Study for Optimizing a Stand-Alone Hybrid Photovoltaic-Diesel System to Feed Summer Load. <i>Renewable Energy and Power Quality Journal</i> , 2005 , 1, 431-436		2
25	Parallel Random Injection Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2010 , 471-480	0.9	2
24	Fitness Diversity Parallel Evolution Algorithms in the Turtle Race Game. <i>Lecture Notes in Computer Science</i> , 2009 , 303-312	0.9	2
23	Model-Based Rate-Distortion Optimized Video-Based Point Cloud Compression with Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2021 , 735-747	0.9	2

22	Metaheuristic Optimization: Algorithmic Design and Applications. <i>Journal of Optimization</i> , 2017 , 2017, 1-2	0.5	1
21	Two local search components that move along the axes for memetic computing frameworks 2014 ,		1
20	Differential evolution schemes for speech segmentation: A comparative study 2014 ,		1
19	An adaptive prudent-daring evolutionary algorithm for noise handling in on-line PMSM drive design 2007 ,		1
18	Two Cascade Genetic Algorithms to Optimize Unequally Spaced Grounding Grids with Rods 2005 ,		1
17	A Quasi-genetic algorithm for searching the dangerous areas generated by a grounding system. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2004 , 23, 724-732	0.7	1
16	Some geometrical and evolutionary procedures for optimizing the calculation times of 3D current fields by the finite element method. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2005 , 24, 984-996	0.7	1
15	SPMS-ALS: A Single-Point Memetic structure with accelerated local search for instance reduction. <i>Swarm and Evolutionary Computation</i> , 2021 , 100991	9.8	1
14	Complex Numbers and Polynomials 2019 , 169-201		1
13	A Local Search with a Surrogate Assisted Option for Instance Reduction. <i>Lecture Notes in Computer Science</i> , 2020 , 578-594	0.9	1
12	Evolutionary Regression Machines for Precision Agriculture. <i>Lecture Notes in Computer Science</i> , 2012 , 356-365	0.9	1
11	An Adaptive Memetic P System to Solve the 0/1 Knapsack Problem 2020 ,		1
10	Covariance Local Search for Memetic Frameworks: A Fitness Landscape Analysis Approach 2020 ,		1
9	Teaching Mathematics to Computer Scientists: Reflections and a Case Study. <i>SN Computer Science</i> , 2021 , 2, 1	2	1
8	Generalised Pattern Search with Restarting Fitness Landscape Analysis. <i>SN Computer Science</i> , 2022 , 3, 1	2	1
7	Nature That Breeds Solutions. <i>International Journal of Signs and Semiotic Systems</i> , 2012 , 2, 23-44		0
6	A self-adaptive multi-objective feature selection approach for classification problems. <i>Integrated Computer-Aided Engineering</i> , 2021 , 1-19	5.2	0
5	Computational intelligence optimisation in the presence of uncertainties. <i>International Journal of Systems Science</i> , 2012 , 43, 1191-1192	2.3	

4	A Hierarchical Evolutionary Algorithm with Noisy Fitness in Structural Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2005 , 610-616	0.9
3	Introduction. <i>International Journal of Neural Systems</i> , 2021 , 31, 2103001	6.2
2	Advanced Metaheuristic Approaches and Population Doping for a Novel Modeling-Based Method of Positron Emission Tomography Data Analysis. <i>Lecture Notes in Computer Science</i> , 2011 , 204-213	0.9
1	Intrusion Detection System Based on an Updated ANN Model. <i>Lecture Notes in Computer Science</i> , 2021 , 472-479	0.9