Ferrante Neri

List of Publications by Year
in descending order

162 papers	6,641 citations	70961 41 h-index	66788 78 g-index
176 all docs	176 docs citations	176 times ranked	3492 citing authors

#	Article	IF	Citations
1	Recent advances in differential evolution: a survey and experimental analysis. Artificial Intelligence Review, 2010, 33, 61-106.	9.7	871
2	Memetic algorithms and memetic computing optimization: A literature review. Swarm and Evolutionary Computation, 2012, 2, 1-14.	4.5	498
3	Compact Differential Evolution. IEEE Transactions on Evolutionary Computation, 2011, 15, 32-54.	7.5	272
4	AN OPTIMIZATION SPIKING NEURAL P SYSTEM FOR APPROXIMATELY SOLVING COMBINATORIAL OPTIMIZATION PROBLEMS. International Journal of Neural Systems, 2014, 24, 1440006.	3.2	261
5	A Fast Adaptive Memetic Algorithm for Online and Offline Control Design of PMSM Drives. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 28-41.	5.5	205
6	Scale factor local search in differential evolution. Memetic Computing, 2009, 1, 153-171.	2.7	162
7	Cloud-assisted secure eHealth systems for tamper-proofing EHR via blockchain. Information Sciences, 2019, 485, 427-440.	4.0	162
8	Algorithmic design issues in adaptive differential evolution schemes: Review and taxonomy. Swarm and Evolutionary Computation, 2018, 43, 284-311.	4.5	156
9	Memetic Compact Differential Evolution for Cartesian Robot Control. IEEE Computational Intelligence Magazine, 2010, 5, 54-65.	3.4	154
10	Spiking Neural <i>P</i> Systems with Communication on Request. International Journal of Neural Systems, 2017, 27, 1750042.	3.2	151
11	Compact Particle Swarm Optimization. Information Sciences, 2013, 239, 96-121.	4.0	134
12	Ockham's Razor in memetic computing: Three stage optimal memetic exploration. Information Sciences, 2012, 188, 17-43.	4.0	126
13	Super-fit control adaptation in memetic differential evolution frameworks. Soft Computing, 2009, 13, 811-831.	2.1	115
14	Disturbed Exploitation compact Differential Evolution for limited memory optimization problems. Information Sciences, 2011, 181, 2469-2487.	4.0	115
15	An Enhanced Memetic Differential Evolution in Filter Design for Defect Detection in Paper Production. Evolutionary Computation, 2008, 16, 529-555.	2.3	109
16	A study on scale factor in distributed differential evolution. Information Sciences, 2011, 181, 2488-2511.	4.0	107
17	Optimization of Delayed-State Kalman-Filter-Based Algorithm via Differential Evolution for Sensorless Control of Induction Motors. IEEE Transactions on Industrial Electronics, 2010, 57, 385-394.	5.2	102
18	An Adaptive Multimeme Algorithm for Designing HIV Multidrug Therapies. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2007, 4, 264-278.	1.9	95

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19	Parallel memetic structures. Information Sciences, 2013, 227, 60-82.	4.0	95
20	Distributed differential evolution with explorative–exploitative population families. Genetic Programming and Evolvable Machines, 2009, 10, 343-371.	1.5	88
21	Simplified and Yet Turing Universal Spiking Neural P Systems with Communication on Request. International Journal of Neural Systems, 2018, 28, 1850013.	3.2	88
22	Cluster-Based Population Initialization for differential evolution frameworks. Information Sciences, 2015, 297, 216-235.	4.0	86
23	Shuffle or update parallel differential evolution for large-scale optimization. Soft Computing, 2011, 15, 2089-2107.	2.1	85
24	A fast hypervolume driven selection mechanism for many-objective optimisation problems. Swarm and Evolutionary Computation, 2017, 34, 50-67.	4.5	85
25	Scale factor inheritance mechanism in distributed differential evolution. Soft Computing, 2010, 14, 1187-1207.	2.1	84
26	An analysis on separability for Memetic Computing automatic design. Information Sciences, 2014, 265, 1-22.	4.0	84
27	A Multi-Objective Evolutionary Approach Based on Graph-in-Graph for Neural Architecture Search of Convolutional Neural Networks. International Journal of Neural Systems, 2021, 31, 2150035.	3.2	82
28	Multi-Objective Feature Selection With Missing Data in Classification. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 355-364.	3.4	79
29	Design and implementation of membrane controllers for trajectory tracking of nonholonomic wheeled mobile robots. Integrated Computer-Aided Engineering, 2015, 23, 15-30.	2.5	78
30	A Complete Arithmetic Calculator Constructed from Spiking Neural P Systems and its Application to Information Fusion. International Journal of Neural Systems, 2021, 31, 2050055.	3.2	75
31	An Adaptive Optimization Spiking Neural P System for Binary Problems. International Journal of Neural Systems, 2021, 31, 2050054.	3.2	74
32	An ensemble of differential evolution and Adam for training feed-forward neural networks. Information Sciences, 2022, 608, 453-471.	4.0	71
33	Enhancing distributed differential evolution with multicultural migration for global numerical optimization. Information Sciences, 2013, 247, 72-93.	4.0	67
34	Covariance matrix adaptation pareto archived evolution strategy with hypervolume-sorted adaptive grid algorithm. Integrated Computer-Aided Engineering, 2016, 23, 313-329.	2.5	67
35	MULTI-STRATEGY COEVOLVING AGING PARTICLE OPTIMIZATION. International Journal of Neural Systems, 2014, 24, 1450008.	3.2	65
36	Progressive preference articulation for decision making in multi-objective optimisation problems. Integrated Computer-Aided Engineering, 2017, 24, 315-335.	2.5	57

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37	An adaptive evolutionary algorithm with intelligent mutation local searchers for designing multidrug therapies for HIV. Applied Intelligence, 2007, 27, 219-235.	3.3	50
38	A memetic Differential Evolution approach in noisy optimization. Memetic Computing, 2010, 2, 111-135.	2.7	49
39	Multicriteria adaptive differential evolution for global numerical optimization. Integrated Computer-Aided Engineering, 2015, 22, 103-107.	2.5	48
40	Artificial compound eye: a survey of the state-of-the-art. Artificial Intelligence Review, 2017, 48, 573-603.	9.7	45
41	HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. Information Sciences, 2019, 477, 186-202.	4.0	44
42	A Layered Spiking Neural System for Classification Problems. International Journal of Neural Systems, 2022, 32, 2250023.	3.2	44
43	A membrane parallel rapidly-exploring random tree algorithm for robotic motion planning. Integrated Computer-Aided Engineering, 2020, 27, 121-138.	2.5	43
44	On memetic Differential Evolution frameworks: A study of advantages and limitations in hybridization. , 2008, , .		41
45	Compact Differential Evolution Light: High Performance Despite Limited Memory Requirement and Modest Computational Overhead. Journal of Computer Science and Technology, 2012, 27, 1056-1076.	0.9	35
46	Memory-saving memetic computing for path-following mobile robots. Applied Soft Computing Journal, 2013, 13, 2003-2016.	4.1	32
47	A study on scale factor/crossover interaction in distributed differential evolution. Artificial Intelligence Review, 2013, 39, 195-224.	9.7	32
48	Super-fit Multicriteria Adaptive Differential Evolution. , 2013, , .		31
49	Fitness diversity based adaptation in Multimeme Algorithms:A comparative study. , 2007, , .		29
50	A Memetic Differential Evolution in Filter Design for Defect Detection in Paper Production. , 2007, , 320-329.		28
51	Surrogate assisted local search in PMSM drive design. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 573-592.	0.5	28
52	Re-sampled inheritance search: high performance despite the simplicity. Soft Computing, 2013, 17, 2235-2256.	2.1	28
53	Multi-behaviors coordination controller design with enzymatic numerical P systems for robots. Integrated Computer-Aided Engineering, 2021, 28, 119-140.	2.5	28
54	Differential Evolution with Fitness Diversity Self-adaptation. Studies in Computational Intelligence, 2009, , 199-234.	0.7	28

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55	Special issue on emerging trends in soft computing: memetic algorithms. Soft Computing, 2009, 13, 739-740.	2.1	27
56	Super-fit and population size reduction in compact Differential Evolution. , 2011, , .		26
57	A CMA-ES super-fit scheme for the re-sampled inheritance search. , 2013, , .		26
58	A study on rotation invariance in differential evolution. Swarm and Evolutionary Computation, 2019, 50, 100436.	4.5	24
59	Noise analysis compact differential evolution. International Journal of Systems Science, 2012, 43, 1248-1267.	3.7	21
60	Differential Evolution with Concurrent Fitness Based Local Search. , 2013, , .		21
61	Self-Adaptive Particle Swarm Optimization-Based Echo State Network for Time Series Prediction. International Journal of Neural Systems, 2021, 31, 2150057.	3.2	19
62	Compact Optimization. Intelligent Systems Reference Library, 2013, , 337-364.	1.0	18
63	On Algorithmic Descriptions and Software Implementations for Multi-objective Optimisation: A Comparative Study. SN Computer Science, 2020, 1, 1.	2.3	17
64	Prudent-Daring vs Tolerant Survivor Selection Schemes in Control Design of Electric Drives. Lecture Notes in Computer Science, 2006, , 805-809.	1.0	17
65	Integrating Cross-Dominance Adaptation in Multi-Objective Memetic Algorithms. Studies in Computational Intelligence, 2009, , 325-351.	0.7	16
66	Towards Artificial Speech Therapy: A Neural System for Impaired Speech Segmentation. International Journal of Neural Systems, 2016, 26, 1650023.	3.2	16
67	A self-adaptive multi-objective feature selection approach for classification problems. Integrated Computer-Aided Engineering, 2021, 29, 3-21.	2.5	16
68	Evolutionary Optimization. , 2012, , 1-29.		16
69	Large Scale Problems in Practice: The Effect of Dimensionality on the Interaction Among Variables. Lecture Notes in Computer Science, 2017, , 636-652.	1.0	15
70	An adaptive local search algorithm for real-valued dynamic optimization. , 2015, , .		14
71	Geometry based three-dimensional image processing method for electronic cluster eye. Integrated Computer-Aided Engineering, 2018, 25, 213-228.	2.5	14
72	On the Tuning of the Computation Capability of Spiking Neural Membrane Systems with Communication on Request. International Journal of Neural Systems, 2022, 32, .	3.2	14

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73	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. Lecture Notes in Computer Science, 2014, , 615-626.	1.0	13
74	Enhancing Differential Evolution frameworks by scale factor local search - Part I. , 2009, , .		12
75	Micro-differential evolution with extra moves along the axes. , 2013, , .		12
76	Ensemble strategies in Compact Differential Evolution. , 2011, , .		11
77	Generalised Pattern Search Based on Covariance Matrix Diagonalisation. SN Computer Science, 2021, 2, 1.	2.3	11
78	Nature that Breeds Solutions. , 0, , 1-24.		11
79	Composed compact differential evolution. Evolutionary Intelligence, 2011, 4, 17-29.	2.3	10
80	Diversity Management in Memetic Algorithms. Studies in Computational Intelligence, 2012, , 153-165.	0.7	10
81	A Primer on Memetic Algorithms. Studies in Computational Intelligence, 2012, , 43-52.	0.7	10
82	Local Search. Studies in Computational Intelligence, 2012, , 29-41.	0.7	10
83	Linear Algebra for Computational Sciences and Engineering. , 2019, , .		10
84	A multi-aperture optical flow estimation method for an artificial compound eye. Integrated Computer-Aided Engineering, 2019, 26, 139-157.	2.5	10
85	Hierarchical Evolutionary Algorithms and Noise Compensation via Adaptation. Studies in Computational Intelligence, 2007, , 345-369.	0.7	10
86	A Memetic-Neural Approach to Discover Resources in P2P Networks. Studies in Computational Intelligence, 2008, , 113-129.	0.7	10
87	Differential Evolution with Noise Analyzer. Lecture Notes in Computer Science, 2009, , 715-724.	1.0	10
88	Contiguous Binomial Crossover in Differential Evolution. Lecture Notes in Computer Science, 2012, , 145-153.	1.0	10
89	A new evolutionary method for designing grounding grids by touch voltage control. , 2004, , .		9
90	Application of Memetic Differential Evolution frameworks to PMSM drive design. , 2008, , .		9

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91	Differential Evolution with Scale Factor Local Search for Large Scale Problems. Adaptation, Learning, and Optimization, 2010, , 297-323.	0.5	9
92	A differential evolution for optimisation in noisy environment. International Journal of Bio-Inspired Computation, 2010, 2, 152.	0.6	8
93	A Separability Prototype for Automatic Memes with Adaptive Operator Selection. , 2014, , .		8
94	Analysis of gray scale watermark in RGB host using SVD and PSO. , 2014, , .		8
95	Enhancing Differential Evolution frameworks by scale factor local search - part II. , 2009, , .		7
96	Adaptive Covariance Pattern Search. Lecture Notes in Computer Science, 2021, , 178-193.	1.0	7
97	A Genetic Algorithm Method for Determining the Maximum Touch Voltage Generated by a Grounding System. , 2003, , 85-92.		6
98	Road Lighting Installation Design to Optimize Energy Use by Genetic Algorithms. , 2005, , .		6
99	Global supervision for compact Differential Evolution. , 2011, , .		6
100	Two algorithmic enhancements for the parallel differential evolution. International Journal of Innovative Computing and Applications, 2011, 3, 20.	0.2	6
101	Compact Bacterial Foraging Optimization. Lecture Notes in Computer Science, 2012, , 84-92.	1.0	6
102	Continuous Parameter Pools in Ensemble Differential Evolution. , 2015, , .		6
103	Model-Based Rate-Distortion Optimized Video-Based Point Cloud Compression with Differential Evolution. Lecture Notes in Computer Science, 2021, , 735-747.	1.0	6
104	Estimation Distribution Differential Evolution. Lecture Notes in Computer Science, 2010, , 522-531.	1.0	6
105	Two Cascade Genetic Algorithms to Optimize Unequally Spaced Grounding Grids with Rods. , 2005, , .		5
106	A Surrogate Assisted Hooke-Jeeves Algorithm to Optimize the Control System of a PMSM Drive. , 2006, , .		5
107	A fast evolutionaryâ€deterministic algorithm to study multimodal current fields under safety level constraints. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 599-608.	0.5	5
108	Memetic Algorithms in Engineering and Design. Studies in Computational Intelligence, 2012, , 241-260.	0.7	5

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109	Changing factor based food sources in artificial bee colony. , 2014, , .		5
110	Rotation Invariance and Rotated Problems: An Experimental Study on Differential Evolution. Lecture Notes in Computer Science, 2018, , 597-614.	1.0	5
111	An Adaptive Global-Local Memetic Algorithm to Discover Resources in P2P Networks. , 2007, , 61-70.		5
112	Parallel Random Injection Differential Evolution. Lecture Notes in Computer Science, 2010, , 471-480.	1.0	5
113	Robot Base Disturbance Optimization with Compact Differential Evolution Light. Lecture Notes in Computer Science, 2012, , 285-294.	1.0	5
114	SPMS-ALS: A Single-Point Memetic structure with accelerated local search for instance reduction. Swarm and Evolutionary Computation, 2022, 69, 100991.	4.5	5
115	Meta-Lamarckian learning in three stage optimal memetic exploration. , 2012, , .		4
116	Two local search components that move along the axes for memetic computing frameworks. , 2014, , .		4
117	Metaheuristic Optimization: Algorithmic Design and Applications. Journal of Optimization, 2017, 2017, 1-2.	6.0	4
118	Guest editorial: Memetic Computing in the presence of uncertainties. Memetic Computing, 2010, 2, 85-86.	2.7	3
119	Noise Analysis Compact Genetic Algorithm. Lecture Notes in Computer Science, 2010, , 602-611.	1.0	3
120	The importance of being structured: A comparative study on multi stage memetic approaches. , 2012, , .		3
121	Nature That Breeds Solutions. International Journal of Signs and Semiotic Systems, 2012, 2, 23-44.	0.1	3
122	Single particle algorithms for continuous optimization. , 2013, , .		3
123	Focusing the search: a progressively shrinking memetic computing framework. International Journal of Innovative Computing and Applications, 2013, 5, 127.	0.2	3
124	An Adaptive Memetic P System to Solve the 0/1 Knapsack Problem. , 2020, , .		3
125	Memetic Variation Local Search vs. Life-Time Learning in Electrical Impedance Tomography. Lecture Notes in Computer Science, 2009, , 615-624.	1.0	3
126	Memetic Differential Evolution Frameworks in Filter Design for Defect Detection in Paper Production. Studies in Computational Intelligence, 2009, , 113-131.	0.7	3

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127	A Study for Optimizing a Stand-Alone Hybrid Photovoltaic-Diesel System to Feed Summer Load. Renewable Energy and Power Quality Journal, 2005, 1, 431-436.	0.2	3
128	Differential evolution optimization of DSKF algorithm for sensorless SFO control of IM drives. , 2008, , .		2
129	Optimization of DSKF-based algorithm for sensorless SFO-SM control of IMs using differential evolution. , 2008, , .		2
130	Three variants of three Stage Optimal Memetic Exploration for handling non-separable fitness landscapes. , 2012, , .		2
131	Re-sampling search: A seriously simple memetic approach with a high performance. , 2013, , .		2
132	Differential evolution schemes for speech segmentation: A comparative study. , 2014, , .		2
133	Adaptive Differential Evolution Applied to Point Matching 2D GIS Data. , 2015, , .		2
134	Covariance Local Search for Memetic Frameworks: A Fitness Landscape Analysis Approach. , 2020, , .		2
135	Teaching Mathematics to Computer Scientists: Reflections and a Case Study. SN Computer Science, 2021, 2, 1.	2.3	2
136	A Study for Optimizing the Management Strategies of a Hybrid Photovoltaic-Diesel Power Generation System. Renewable Energy and Power Quality Journal, 2004, 1, 473-476.	0.2	2
137	Fitness Diversity Parallel Evolution Algorithms in the Turtle Race Game. Lecture Notes in Computer Science, 2009, , 303-312.	1.0	2
138	Generalised Pattern Search with Restarting Fitness Landscape Analysis. SN Computer Science, 2022, 3, 1.	2.3	2
139	A â€œquasiâ€geneticâ€algorithm for searching the dangerous areas generated by a grounding system. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 724-732.	0.5	1
140	Some geometrical and evolutionary procedures for optimizing the calculation times of 3D current fields by the finite element method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 984-996.	0.5	1
141	An adaptive prudent-daring evolutionary algorithm for noise handling in on-line PMSM drive design. , 2007, , .		1
142	Robust impaired speech segmentation using neural network mixture model. , 2014, , .		1
143	Scalable Hierarchical Clustering: Twister Tries with a Posteriori Trie Elimination. , 2015, , .		1
144	Complex Numbers and Polynomials. , 2019, , 169-201.		1

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145	A Local Search with a Surrogate Assisted Option for Instance Reduction. Lecture Notes in Computer Science, 2020, , 578-594.	1.0	1
146	Evolutionary Regression Machines for Precision Agriculture. Lecture Notes in Computer Science, 2012, , 356-365.	1.0	1
147	A theoretical Study for Supporting an Autonomous Diesel Power Plant with a Photovoltaic Generator. Renewable Energy and Power Quality Journal, 2004, 1, 477-481.	0.2	1
148	Global Rate-distortion Optimization of Video-based Point Cloud Compression with Differential Evolution. , 2021, , .		1
149	A Hierarchical Evolutionary Algorithm with Noisy Fitness in Structural Optimization Problems. Lecture Notes in Computer Science, 2005, , 610-616.	1.0	0
150	The “natura non facit saltus” principle in Memetic computing. , 2008, , .		0
151	Design of position controller for PMSM drive in pais project for early wildfire detection by means of differential evolution with Scale Factor Local Search. , 2010, , .		0
152	Computational intelligence optimisation in the presence of uncertainties. International Journal of Systems Science, 2012, 43, 1191-1192.	3.7	0
153	An Introduction to Geometric Algebra and Conics. , 2016, , 159-207.		0
154	Intrusion Detection System Based on an Updated ANN Model. Lecture Notes in Computer Science, 2021, , 472-479.	1.0	0
155	Covariance Pattern Search with Eigenvalue-determined Radii. , 2021, , .		0
156	Advanced Metaheuristic Approaches and Population Doping for a Novel Modeling-Based Method of Positron Emission Tomography Data Analysis. Lecture Notes in Computer Science, 2011, , 204-213.	1.0	0
157	Complex Numbers and Polynomials. , 2016, , 131-158.		0
158	Basic Mathematical Thinking. , 2016, , 3-13.		0
159	Local Search. , 2016, , 1-3.		0
160	An Overview on Algebraic Structures. , 2016, , 211-231.		0
161	Introduction. International Journal of Neural Systems, 2021, 31, 2103001.	3.2	0
162	An Outstanding Platform to Advance a Multifaceted Discipline. International Journal of Neural Systems, 2020, 30, 2003009.	3.2	0