

# Ferrante Neri

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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	Generalised Pattern Search with Restarting Fitness Landscape Analysis. <i>SN Computer Science</i> , <b>2022</b> , 3, 1	2	1
146	A Layered Spiking Neural System for Classification Problems.. <i>International Journal of Neural Systems</i> , <b>2022</b> , 2250023	6.2	3
145	A Complete Arithmetic Calculator Constructed from Spiking Neural P Systems and its Application to Information Fusion. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2050055	6.2	33
144	SPMS-ALS: A Single-Point Memetic structure with accelerated local search for instance reduction. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 100991	9.8	1
143	Self-Adaptive Particle Swarm Optimization-Based Echo State Network for Time Series Prediction. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2150057	6.2	4
142	Introduction. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2103001	6.2	
141	Generalised Pattern Search Based on Covariance Matrix Diagonalisation. <i>SN Computer Science</i> , <b>2021</b> , 2, 1	2	6
140	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> , <b>2021</b> , 31, 2150035	6.2	23
139	Multi-behaviors coordination controller design with enzymatic numerical P systems for robots. <i>Integrated Computer-Aided Engineering</i> , <b>2021</b> , 28, 119-140	5.2	9
138	An Adaptive Optimization Spiking Neural P System for Binary Problems. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2050054	6.2	33
137	Adaptive Covariance Pattern Search. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 178-193	0.9	5
136	Intrusion Detection System Based on an Updated ANN Model. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 472-479	0.9	
135	Teaching Mathematics to Computer Scientists: Reflections and a Case Study. <i>SN Computer Science</i> , <b>2021</b> , 2, 1	2	1
134	A self-adaptive multi-objective feature selection approach for classification problems. <i>Integrated Computer-Aided Engineering</i> , <b>2021</b> , 1-19	5.2	0
133	. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 1-10	4.1	23
132	Model-Based Rate-Distortion Optimized Video-Based Point Cloud Compression with Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 735-747	0.9	2
131	A membrane parallel rapidly-exploring random tree algorithm for robotic motion planning. <i>Integrated Computer-Aided Engineering</i> , <b>2020</b> , 27, 121-138	5.2	32

130	A Local Search for Numerical Optimisation Based on Covariance Matrix Diagonalisation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 3-19	0.9	5
129	A Local Search with a Surrogate Assisted Option for Instance Reduction. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 578-594	0.9	1
128	An Adaptive Memetic P System to Solve the 0/1 Knapsack Problem <b>2020</b> ,		1
127	Covariance Local Search for Memetic Frameworks: A Fitness Landscape Analysis Approach <b>2020</b> ,		1
126	On Algorithmic Descriptions and Software Implementations for Multi-objective Optimisation: A Comparative Study. <i>SN Computer Science</i> , <b>2020</b> , 1, 1	2	13
125	A multi-aperture optical flow estimation method for an artificial compound eye. <i>Integrated Computer-Aided Engineering</i> , <b>2019</b> , 26, 139-157	5.2	9
124	Linear Algebra for Computational Sciences and Engineering <b>2019</b> ,		6
123	Complex Numbers and Polynomials <b>2019</b> , 169-201		1
122	Cloud-assisted secure eHealth systems for tamper-proofing EHR via blockchain. <i>Information Sciences</i> , <b>2019</b> , 485, 427-440	7.7	86
121	HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. <i>Information Sciences</i> , <b>2019</b> , 477, 186-202	7.7	31
120	A study on rotation invariance in differential evolution. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 50, 100436	9.8	15
119	Algorithmic design issues in adaptive differential evolution schemes: Review and taxonomy. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 43, 284-311	9.8	105
118	Rotation Invariance and Rotated Problems: An Experimental Study on Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 597-614	0.9	5
117	Simplified and Yet Turing Universal Spiking Neural P Systems with Communication on Request. <i>International Journal of Neural Systems</i> , <b>2018</b> , 28, 1850013	6.2	78
116	Geometry based three-dimensional image processing method for electronic cluster eye. <i>Integrated Computer-Aided Engineering</i> , <b>2018</b> , 25, 213-228	5.2	13
115	Large Scale Problems in Practice: The Effect of Dimensionality on the Interaction Among Variables. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 636-652	0.9	11
114	A fast hypervolume driven selection mechanism for many-objective optimisation problems. <i>Swarm and Evolutionary Computation</i> , <b>2017</b> , 34, 50-67	9.8	65
113	Spiking Neural P Systems with Communication on Request. <i>International Journal of Neural Systems</i> , <b>2017</b> , 27, 1750042	6.2	112

112	Progressive preference articulation for decision making in multi-objective optimisation problems. <i>Integrated Computer-Aided Engineering</i> , <b>2017</b> , 24, 315-335	5.2	55
111	Metaheuristic Optimization: Algorithmic Design and Applications. <i>Journal of Optimization</i> , <b>2017</b> , 2017, 1-2	0.5	1
110	Artificial compound eye: a survey of the state-of-the-art. <i>Artificial Intelligence Review</i> , <b>2017</b> , 48, 573-603	9.7	27
109	Linear Algebra for Computational Sciences and Engineering <b>2016</b> ,		2
108	Covariance matrix adaptation pareto archived evolution strategy with hypervolume-sorted adaptive grid algorithm. <i>Integrated Computer-Aided Engineering</i> , <b>2016</b> , 23, 313-329	5.2	60
107	Towards Artificial Speech Therapy: A Neural System for Impaired Speech Segmentation. <i>International Journal of Neural Systems</i> , <b>2016</b> , 26, 1650023	6.2	15
106	Multicriteria adaptive differential evolution for global numerical optimization. <i>Integrated Computer-Aided Engineering</i> , <b>2015</b> , 22, 103-107	5.2	44
105	Cluster-Based Population Initialization for differential evolution frameworks. <i>Information Sciences</i> , <b>2015</b> , 297, 216-235	7.7	66
104	An adaptive local search algorithm for real-valued dynamic optimization <b>2015</b> ,		10
103	Design and implementation of membrane controllers for trajectory tracking of nonholonomic wheeled mobile robots. <i>Integrated Computer-Aided Engineering</i> , <b>2015</b> , 23, 15-30	5.2	68
102	Continuous Parameter Pools in Ensemble Differential Evolution <b>2015</b> ,		5
101	Multi-strategy coevolving aging particle optimization. <i>International Journal of Neural Systems</i> , <b>2014</b> , 24, 1450008	6.2	54
100	An optimization spiking neural p system for approximately solving combinatorial optimization problems. <i>International Journal of Neural Systems</i> , <b>2014</b> , 24, 1440006	6.2	214
99	Changing factor based food sources in artificial bee colony <b>2014</b> ,		5
98	A Separability Prototype for Automatic Memes with Adaptive Operator Selection <b>2014</b> ,		6
97	Two local search components that move along the axes for memetic computing frameworks <b>2014</b> ,		1
96	Differential evolution schemes for speech segmentation: A comparative study <b>2014</b> ,		1
95	Analysis of gray scale watermark in RGB host using SVD and PSO <b>2014</b> ,		7

94	An analysis on separability for Memetic Computing automatic design. <i>Information Sciences</i> , <b>2014</b> , 265, 1-22	7.7	76
93	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 615-626	0.9	11
92	Differential Evolution with Concurrent Fitness Based Local Search <b>2013</b> ,		15
91	A CMA-ES super-fit scheme for the re-sampled inheritance search <b>2013</b> ,		20
90	Memory-saving memetic computing for path-following mobile robots. <i>Applied Soft Computing Journal</i> , <b>2013</b> , 13, 2003-2016	7.5	28
89	Re-sampled inheritance search: high performance despite the simplicity. <i>Soft Computing</i> , <b>2013</b> , 17, 2235-2256	7.3	25
88	Micro-differential evolution with extra moves along the axes <b>2013</b> ,		10
87	Re-sampling search: A seriously simple memetic approach with a high performance <b>2013</b> ,		2
86	Parallel memetic structures. <i>Information Sciences</i> , <b>2013</b> , 227, 60-82	7.7	87
85	Enhancing distributed differential evolution with multicultural migration for global numerical optimization. <i>Information Sciences</i> , <b>2013</b> , 247, 72-93	7.7	54
84	Compact Particle Swarm Optimization. <i>Information Sciences</i> , <b>2013</b> , 239, 96-121	7.7	101
83	A study on scale factor/crossover interaction in distributed differential evolution. <i>Artificial Intelligence Review</i> , <b>2013</b> , 39, 195-224	9.7	25
82	Single particle algorithms for continuous optimization <b>2013</b> ,		3
81	Super-fit Multicriteria Adaptive Differential Evolution <b>2013</b> ,		28
80	Focusing the search: a progressively shrinking memetic computing framework. <i>International Journal of Innovative Computing and Applications</i> , <b>2013</b> , 5, 127	0.4	2
79	Compact Optimization. <i>Intelligent Systems Reference Library</i> , <b>2013</b> , 337-364	0.8	15
78	Ockham's Razor in memetic computing: Three stage optimal memetic exploration. <i>Information Sciences</i> , <b>2012</b> , 188, 17-43	7.7	114
77	Memetic Algorithms in Continuous Optimization. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 121-134	0.8	6

76	Memetic Algorithms in Engineering and Design. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 241-260	0.8	4
75	Diversity Management in Memetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 153-165	0.8	9
74	A Primer on Memetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 43-52	0.8	8
73	Local Search. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 29-41	0.8	9
72	Compact Differential Evolution Light: High Performance Despite Limited Memory Requirement and Modest Computational Overhead. <i>Journal of Computer Science and Technology</i> , <b>2012</b> , 27, 1056-1076	1.7	31
71	The importance of being structured: A comparative study on multi stage memetic approaches <b>2012</b> ,		3
70	Meta-Lamarckian learning in three stage optimal memetic exploration <b>2012</b> ,		3
69	Three variants of three Stage Optimal Memetic Exploration for handling non-separable fitness landscapes <b>2012</b> ,		2
68	Computational intelligence optimisation in the presence of uncertainties. <i>International Journal of Systems Science</i> , <b>2012</b> , 43, 1191-1192	2.3	
67	Memetic algorithms and memetic computing optimization: A literature review. <i>Swarm and Evolutionary Computation</i> , <b>2012</b> , 2, 1-14	9.8	380
66	Compact Bacterial Foraging Optimization. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 84-92	0.9	2
65	Noise analysis compact differential evolution. <i>International Journal of Systems Science</i> , <b>2012</b> , 43, 1248-1263		17
64	Nature That Breeds Solutions. <i>International Journal of Signs and Semiotic Systems</i> , <b>2012</b> , 2, 23-44		0
63	Evolutionary Optimization <b>2012</b> , 1-29		11
62	Robot Base Disturbance Optimization with Compact Differential Evolution Light. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 285-294	0.9	4
61	Evolutionary Regression Machines for Precision Agriculture. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 356-365	0.9	1
60	Contiguous Binomial Crossover in Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 145-153		9
59	Opposition-Based Learning in Compact Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 264-273	0.9	10

58	Ensemble strategies in Compact Differential Evolution <b>2011</b> ,		9
57	Two algorithmic enhancements for the parallel differential evolution. <i>International Journal of Innovative Computing and Applications</i> , <b>2011</b> , 3, 20	0.4	5
56	Compact Differential Evolution. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2011</b> , 15, 32-54	15.6	191
55	Shuffle or update parallel differential evolution for large-scale optimization. <i>Soft Computing</i> , <b>2011</b> , 15, 2089-2107	3.5	73
54	Composed compact differential evolution. <i>Evolutionary Intelligence</i> , <b>2011</b> , 4, 17-29	1.7	9
53	Disturbed Exploitation compact Differential Evolution for limited memory optimization problems. <i>Information Sciences</i> , <b>2011</b> , 181, 2469-2487	7.7	104
52	A study on scale factor in distributed differential evolution. <i>Information Sciences</i> , <b>2011</b> , 181, 2488-2511	7.7	101
51	Super-fit and population size reduction in compact Differential Evolution <b>2011</b> ,		24
50	Global supervision for compact Differential Evolution <b>2011</b> ,		6
49	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> , <b>2011</b> , 204-213	0.9	
48	A differential evolution for optimisation in noisy environment. <i>International Journal of Bio-Inspired Computation</i> , <b>2010</b> , 2, 152	2.9	5
47	Noise Analysis Compact Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 602-611	0.9	3
46	Optimization of Delayed-State Kalman-Filter-Based Algorithm via Differential Evolution for Sensorless Control of Induction Motors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 385-394	8.9	86
45	Recent advances in differential evolution: a survey and experimental analysis. <i>Artificial Intelligence Review</i> , <b>2010</b> , 33, 61-106	9.7	696
44	Scale factor inheritance mechanism in distributed differential evolution. <i>Soft Computing</i> , <b>2010</b> , 14, 1187-1207	3.3	78
43	A memetic Differential Evolution approach in noisy optimization. <i>Memetic Computing</i> , <b>2010</b> , 2, 111-135	3.4	42
42	Memetic Compact Differential Evolution for Cartesian Robot Control. <i>IEEE Computational Intelligence Magazine</i> , <b>2010</b> , 5, 54-65	5.6	139
41	Differential Evolution with Scale Factor Local Search for Large Scale Problems. <i>Adaptation, Learning, and Optimization</i> , <b>2010</b> , 297-323	0.7	6

40	Parallel Random Injection Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 471-480	0.9	2
39	Estimation Distribution Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 522-531	0.9	5
38	Enhancing Differential Evolution frameworks by scale factor local search - Part I <b>2009</b> ,		10
37	Integrating Cross-Dominance Adaptation in Multi-Objective Memetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 325-351	0.8	12
36	Super-fit control adaptation in memetic differential evolution frameworks. <i>Soft Computing</i> , <b>2009</b> , 13, 811-831	3.5	101
35	Distributed differential evolution with explorative-exploitative population families. <i>Genetic Programming and Evolvable Machines</i> , <b>2009</b> , 10, 343-371	2	78
34	Scale factor local search in differential evolution. <i>Memetic Computing</i> , <b>2009</b> , 1, 153-171	3.4	146
33	Enhancing Differential Evolution frameworks by scale factor local search - part II <b>2009</b> ,		7
32	Differential Evolution with Fitness Diversity Self-adaptation. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 199-234	0.8	23
31	Memetic Variation Local Search vs. Life-Time Learning in Electrical Impedance Tomography. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 615-624	0.9	3
30	Differential Evolution with Noise Analyzer. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 715-724	0.9	9
29	Memetic Differential Evolution Frameworks in Filter Design for Defect Detection in Paper Production. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 113-131	0.8	3
28	Fitness Diversity Parallel Evolution Algorithms in the Turtle Race Game. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 303-312	0.9	2
27	An enhanced memetic differential evolution in filter design for defect detection in paper production. <i>Evolutionary Computation</i> , <b>2008</b> , 16, 529-55	4.3	97
26	Surrogate assisted local search in PMSM drive design. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2008</b> , 27, 573-592	0.7	26
25	On memetic Differential Evolution frameworks: A study of advantages and limitations in hybridization <b>2008</b> ,		34
24	Application of Memetic Differential Evolution frameworks to PMSM drive design <b>2008</b> ,		8
23	Differential evolution optimization of DSKF algorithm for sensorless SFO control of IM drives <b>2008</b> ,		2



22	Optimization of DSKF-based algorithm for sensorless SFO-SM control of IMs using differential evolution <b>2008</b> ,		2
21	A Memetic-Neural Approach to Discover Resources in P2P Networks. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 113-129	0.8	9
20	Fitness diversity based adaptation in Multimeme Algorithms:A comparative study <b>2007</b> ,		24
19	An adaptive prudent-daring evolutionary algorithm for noise handling in on-line PMSM drive design <b>2007</b> ,		1
18	An adaptive evolutionary algorithm with intelligent mutation local searchers for designing multidrug therapies for HIV. <i>Applied Intelligence</i> , <b>2007</b> , 27, 219-235	4.9	45
17	An adaptive multimeme algorithm for designing HIV multidrug therapies. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2007</b> , 4, 264-78	3	84
16	A fast adaptive memetic algorithm for online and offline control design of PMSM drives. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2007</b> , 37, 28-41		177
15	A Memetic Differential Evolution in Filter Design for Defect Detection in Paper Production <b>2007</b> , 320-329		24
14	Hierarchical Evolutionary Algorithms and Noise Compensation via Adaptation. <i>Studies in Computational Intelligence</i> , <b>2007</b> , 345-369	0.8	6
13	An Adaptive Global-Local Memetic Algorithm to Discover Resources in P2P Networks <b>2007</b> , 61-70		4
12	A Surrogate Assisted Hooke-Jeeves Algorithm to Optimize the Control System of a PMSM Drive <b>2006</b> ,		4
11	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> , <b>2006</b> , 25, 599-608	0.7	5
10	Prudent-Daring vs Tolerant Survivor Selection Schemes in Control Design of Electric Drives. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 805-809	0.9	13
9	Two Cascade Genetic Algorithms to Optimize Unequally Spaced Grounding Grids with Rods <b>2005</b> ,		1
8	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> , <b>2005</b> , 24, 984-996	0.7	1
7	A Hierarchical Evolutionary Algorithm with Noisy Fitness in Structural Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 610-616	0.9	
6	Road Lighting Installation Design to Optimize Energy Use by Genetic Algorithms <b>2005</b> ,		4
5	A Study for Optimizing a Stand-Alone Hybrid Photovoltaic-Diesel System to Feed Summer Load. <i>Renewable Energy and Power Quality Journal</i> , <b>2005</b> , 1, 431-436		2

4	A new evolutionary method for designing grounding grids by touch voltage control <b>2004</b> ,		7
3	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> , <b>2004</b> , 23, 724-732	0.7	1
2	A Genetic Algorithm Method for Determining the Maximum Touch Voltage Generated by a Grounding System <b>2003</b> , 85-92		3
1	Nature that Breeds Solutions1-24		10