

# Janez Brest

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/413591/publications.pdf>

Version: 2024-02-01

81  
papers

6,634  
citations

331670

21  
h-index

189892

50  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Autocorrelation Binary Sequences: Best-Known Peak Sidelobe Level Values. IEEE Access, 2021, 9, 67713-67723.	4.2	2
2	Self-adaptive Differential Evolution Algorithm with Population Size Reduction for Single Objective Bound-Constrained Optimization: Algorithm j21. , 2021, , .		10
3	On Selection of a Benchmark by Determining the Algorithmsâ€™ Qualities. IEEE Access, 2021, 9, 51166-51178.	4.2	11
4	Post hoc analysis of sport performance with differential evolution. Neural Computing and Applications, 2020, 32, 10799-10808.	5.6	19
5	Differential Evolution Algorithm for Single Objective Bound-Constrained Optimization: Algorithm j2020. , 2020, , .		31
6	Wrapper-Based Feature Selection Using Self-adaptive Differential Evolution. Communications in Computer and Information Science, 2020, , 135-154.	0.5	2
7	Two-phase protein folding optimization on a three-dimensional AB off-lattice model. Swarm and Evolutionary Computation, 2020, 57, 100708.	8.1	5
8	A review of the recent use of Differential Evolution for Large-Scale Global Optimization: An analysis of selected algorithms on the CEC 2013 LSGO benchmark suite. Swarm and Evolutionary Computation, 2019, 50, 100428.	8.1	26
9	The 100-Digit Challenge: Algorithm jDE100. , 2019, , .		51
10	Slavic languages in phrase-based statistical machine translation: a survey. Artificial Intelligence Review, 2019, 51, 77-117.	15.7	7
11	Hybrid Multi-objective PSO for Filter-Based Feature Selection. Advances in Intelligent Systems and Computing, 2019, , 113-123.	0.6	1
12	A Heuristic Algorithm for a Low Autocorrelation Binary Sequence Problem With Odd Length and High Merit Factor. IEEE Access, 2018, 6, 4127-4134.	4.2	17
13	A novel self-adaptive differential evolution for feature selection using threshold mechanism. , 2018, , .		9
14	On Tenfold Execution Time in Real World Optimization Problems with Differential Evolution in Perspective of Algorithm Design. , 2018, , .		7
15	Improved Differential Evolution for Large-Scale Black-Box Optimization. IEEE Access, 2018, 6, 29516-29531.	4.2	14
16	Protein folding optimization using differential evolution extended with local search and component reinitialization. Information Sciences, 2018, 454-455, 178-199.	6.9	17
17	Low-autocorrelation binary sequences: On improved merit factors and runtime predictions to achieve them. Applied Soft Computing Journal, 2017, 56, 262-285.	7.2	12
18	Multi-Objective Differential Evolution for feature selection in Facial Expression Recognition systems. Expert Systems With Applications, 2017, 89, 129-137.	7.6	97

#	ARTICLE	IF	CITATIONS
19	Clustering and differential evolution for multimodal optimization. , 2017, , .		9
20	Single objective real-parameter optimization: Algorithm jSO. , 2017, , .		213
21	On asymptotic complexity of the optimum Golomb ruler problem: From established stochastic methods to self-avoiding walks. , 2017, , .		2
22	Towards the universal framework of stochastic nature-inspired population-based algorithms. , 2016, , .		2
23	A study of chaotic maps in differential evolution applied to gray-level image thresholding. , 2016, , .		4
24	iL-SHADE: Improved L-SHADE algorithm for single objective real-parameter optimization. , 2016, , .		94
25	Genetic algorithm with advanced mechanisms applied to the protein structure prediction in a hydrophobic-polar model and cubic lattice. Applied Soft Computing Journal, 2016, 45, 61-70.	7.2	26
26	A population initialization method for evolutionary algorithms based on clustering and Cauchy deviates. Expert Systems With Applications, 2016, 60, 294-310.	7.6	33
27	Differential evolution for protein folding optimization based on a three-dimensional AB off-lattice model. Journal of Molecular Modeling, 2016, 22, 252.	1.8	13
28	A hybrid differential evolution for optimal multilevel image thresholding. Expert Systems With Applications, 2016, 65, 221-232.	7.6	106
29	Analysis of randomisation methods in swarm intelligence. International Journal of Bio-Inspired Computation, 2015, 7, 36.	0.9	25
30	Adaptation in the Differential Evolution. Adaptation, Learning, and Optimization, 2015, , 53-68.	0.6	4
31	Self-adaptive control parameters $\times$ 3 randomization frequency and propagations in differential evolution. Swarm and Evolutionary Computation, 2015, 25, 72-99.	8.1	106
32	Modified bat algorithm with quaternion representation. , 2015, , .		12
33	Advanced Evolutionary Algorithms in Data Mining. , 2015, , 1-7.		0
34	Towards the Novel Reasoning among Particles in PSO by the Use of RDF and SPARQL. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	17
35	A Novel Hybrid Self-Adaptive Bat Algorithm. Scientific World Journal, The, 2014, 2014, 1-12.	2.1	85
36	The usage of differential evolution in a statistical machine translation. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
37	Vectorized procedural models for animated trees reconstruction using differential evolution. Information Sciences, 2014, 278, 1-21.	6.9	30
38	On the Randomized Firefly Algorithm. Studies in Computational Intelligence, 2014, , 27-48.	0.9	26
39	Structured Population Size Reduction Differential Evolution with Multiple Mutation Strategies on CEC 2013 real parameter optimization. , 2013, , .		32
40	Real Parameter Single Objective Optimization using self-adaptive differential evolution algorithm with more strategies. , 2013, , .		23
41	Modified firefly algorithm using quaternion representation. Expert Systems With Applications, 2013, 40, 7220-7230.	7.6	121
42	Environmental framework to visualize emergent artificial forest ecosystems. Information Sciences, 2013, 220, 522-540.	6.9	14
43	Memetic Self-Adaptive Firefly Algorithm. , 2013, , 73-102.		32
44	A comprehensive review of firefly algorithms. Swarm and Evolutionary Computation, 2013, 13, 34-46.	8.1	993
45	Differential evolution and differential ant-stigmergy on dynamic optimisation problems. International Journal of Systems Science, 2013, 44, 663-679.	5.5	62
46	Performance tuning of Java EE application servers with multi-objective differential evolution. , 2013, , .		4
47	Tree model reconstruction innovization using multi-objective differential evolution. , 2012, , .		5
48	Self-adaptive differential evolution algorithm with a small and varying population size. , 2012, , .		32
49	Population Reduction Differential Evolution with Multiple Mutation Strategies in Real World Industry Challenges. Lecture Notes in Computer Science, 2012, , 154-161.	1.3	48
50	A Hybrid Artificial Bee Colony Algorithm for Graph 3-Coloring. Lecture Notes in Computer Science, 2012, , 66-74.	1.3	10
51	Using differential evolution for the graph coloring. , 2011, , .		4
52	Differential evolution for parameterized procedural woody plant models reconstruction. Applied Soft Computing Journal, 2011, 11, 4904-4912.	7.2	37
53	Design and implementation of domain-specific language easytime. Computer Languages, Systems and Structures, 2011, 37, 151-167.	1.4	22
54	Self-adaptive differential evolution algorithm using population size reduction and three strategies. Soft Computing, 2011, 15, 2157-2174.	3.6	157

#	ARTICLE	IF	CITATIONS
55	History mechanism supported differential evolution for chess evaluation function tuning. Soft Computing, 2010, 15, 667-683.	3.6	11
56	An improved self-adaptive differential evolution algorithm in single objective constrained real-parameter optimization. , 2010, , .		24
57	Large scale global optimization using self-adaptive differential evolution algorithm. , 2010, , .		38
58	Reduction of Morpho-Syntactic Features in Statistical Machine Translation of Highly Inflective Language. Informatica, 2010, 21, 95-116.	2.7	6
59	USING DATA-DRIVEN SUBWORD UNITS IN LANGUAGE MODEL OF HIGHLY INFLECTIVE SLOVENIAN LANGUAGE. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 287-312.	1.2	5
60	Zeroâ€”a blend of static typing and dynamic metaprogramming. Computer Languages, Systems and Structures, 2009, 35, 241-251.	1.4	0
61	Dynamic optimization using Self-Adaptive Differential Evolution. , 2009, , .		107
62	Differential Evolution with Self-adaptation and Local Search for Constrained Multiobjective Optimization. , 2009, , .		53
63	Constrained Real-Parameter Optimization with $\hat{\mu}$ -Self-Adaptive Differential Evolution. Studies in Computational Intelligence, 2009, , 73-93.	0.9	31
64	Differential Evolution with Self-Adaptation. , 2009, , 488-493.		4
65	Statistical Machine Translation from Slovenian to English Using Reduced Morphology. Lecture Notes in Computer Science, 2009, , 451-460.	1.3	0
66	Population size reduction for the differential evolution algorithm. Applied Intelligence, 2008, 29, 228-247.	5.3	304
67	High-dimensional real-parameter optimization using Self-Adaptive Differential Evolution algorithm with population size reduction. , 2008, , .		84
68	Large Scale Global Optimization using Differential Evolution with self-adaptation and cooperative co-evolution. , 2008, , .		71
69	An Adaptive Differential Evolution Algorithm with Opposition-Based Mechanisms, Applied to the Tuning of a Chess Program. Studies in Computational Intelligence, 2008, , 287-298.	0.9	9
70	An Analysis of the Control Parametersâ€™ Adaptation in DE. Studies in Computational Intelligence, 2008, , 89-110.	0.9	16
71	Differential evolution for multiobjective optimization with self adaptation. , 2007, , .		54
72	Modelling, Simulation, and Visualization of Forest Ecosystems. , 2007, , .		5

#	ARTICLE	IF	CITATIONS
73	Performance comparison of self-adaptive and adaptive differential evolution algorithms. Soft Computing, 2007, 11, 617-629.	3.6	176
74	Self-Adapting Control Parameters in Differential Evolution: A Comparative Study on Numerical Benchmark Problems. IEEE Transactions on Evolutionary Computation, 2006, 10, 646-657.	10.0	2,854
75	Z 0 - a tiny experimental language. ACM SIGPLAN Notices, 2005, 40, 19-28.	0.2	2
76	Quick Adaptation of Web-Based Information Systems with Aspect-Oriented Features. Journal of Computing and Information Technology, 2004, 12, 103.	0.3	0
77	Power of heterogeneous computing as a vehicle for implementing E3 medical decision support systems. International Journal of Medical Informatics, 2000, 58-59, 179-190.	3.3	2
78	Integration of complexity metrics with the use of decision trees. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 1998, 23, 56-58.	0.7	6
79	Fractal structure of random programs. ACM SIGPLAN Notices, 1998, 33, 33-38.	0.2	11
80	Software complexity – an alternative view. ACM SIGPLAN Notices, 1996, 31, 35-41.	0.2	8
81	Hybridization of Evolutionary Algorithms. , 0, , .		3