Dmitri E Kvasov

List of Publications by Year
in descending order

37	1,491	361045 20	377514 34
papers	citations	h-index	g-index

42	42	42	552
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Algorithm 829. ACM Transactions on Mathematical Software, 2003, 29, 469-480.	1.6	192
2	Global Search Based on Efficient Diagonal Partitions and a Set of Lipschitz Constants. SIAM Journal on Optimization, 2006, 16, 910-937.	1.2	159
3	On the efficiency of nature-inspired metaheuristics in expensive global optimization with limited budget. Scientific Reports, 2018, 8, 453.	1.6	139
4	Globally-biased Disimpl algorithm for expensive global optimization. Journal of Global Optimization, 2014, 59, 545-567.	1.1	106
5	Metaheuristic vs. deterministic global optimization algorithms: The univariate case. Applied Mathematics and Computation, 2018, 318, 245-259.	1.4	84
6	Deterministic Global Optimization. SpringerBriefs in Optimization, 2017, , .	0.3	64
7	A deterministic global optimization using smooth diagonal auxiliary functions. Communications in Nonlinear Science and Numerical Simulation, 2015, 21, 99-111.	1.7	63
8	Deterministic approaches for solving practical black-box global optimization problems. Advances in Engineering Software, 2015, 80, 58-66.	1.8	61
9	Lipschitz global optimization methods in control problems. Automation and Remote Control, 2013, 74, 1435-1448.	0.4	56
10	A univariate global search working with a set of Lipschitz constants for the first derivative. Optimization Letters, 2009, 3, 303-318.	0.9	53
11	Lipschitz gradients for global optimization in a one-point-based partitioning scheme. Journal of Computational and Applied Mathematics, 2012, 236, 4042-4054.	1.1	53
12	Tuning fuzzy power-system stabilizers in multi-machine systems by global optimization algorithms based on efficient domain partitions. Electric Power Systems Research, 2008, 78, 1217-1229.	2.1	47
13	Globally-biased BIRECT algorithm with local accelerators for expensive global optimization. Expert Systems With Applications, 2020, 144, 113052.	4.4	47
14	Local tuning and partition strategies for diagonal GO methods. Numerische Mathematik, 2003, 94, 93-106.	0.9	46
15	On strong homogeneity of a class of global optimization algorithms working with infinite and infinitesimal scales. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 319-330.	1.7	46
16	Operational zones for comparing metaheuristic and deterministic one-dimensional global optimization algorithms. Mathematics and Computers in Simulation, 2017, 141, 96-109.	2.4	39
17	Derivative-Free Local Tuning and Local Improvement Techniques Embedded in the Univariate Global Optimization. Journal of Optimization Theory and Applications, 2016, 171, 186-208.	0.8	37
18	Lipschitz optimization methods for fitting a sum of damped sinusoids to a series of observations. Statistics and Its Interface, 2017, 10, 59-70.	0.2	32

#	Article	IF	Citations
19	Univariate geometric Lipschitz global optimization algorithms. Numerical Algebra, Control and Optimization, 2012, 2, 69-90.	1.0	31
20	A one-dimensional local tuning algorithm for solving GO problems with partially defined constraints. Optimization Letters, 2006, 1, 85-99.	0.9	27
21	Safe global optimization of expensive noisy black-box functions in the $$delta $$-Lipschitz framework. Soft Computing, 2020, 24, 17715-17735.	2.1	24
22	Novel local tuning techniques for speeding up one-dimensional algorithms in expensive global optimization using Lipschitz derivatives. Journal of Computational and Applied Mathematics, 2021, 383, 113134.	1.1	22
23	Multidimensional Lipschitz global optimization based on efficient diagonal partitions. 4or, 2008, 6, 403-406.	1.0	13
24	Emmental-Type GKLS-Based Multiextremal Smooth Test Problems with Non-linear Constraints. Lecture Notes in Computer Science, 2017, , 383-388.	1.0	7
25	On the Least-Squares Fitting of Data by Sinusoids. Springer Optimization and Its Applications, 2016, , 209-226.	0.6	5
26	A Generator of Multiextremal Test Classes With Known Solutions for Black-Box-Constrained Global Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 1261-1270.	7.5	5
27	One-dimensional global search: Nature-inspired vs. Lipschitz methods. AIP Conference Proceedings, 2016, , .	0.3	4
28	On Acceleration of Derivative-Free Univariate Lipschitz Global Optimization Methods. Lecture Notes in Computer Science, 2020, , 413-421.	1.0	4
29	GENOPT 2016: Design of a generalization-based challenge in global optimization. AIP Conference Proceedings, 2016, , .	0.3	3
30	Ill-conditioning provoked by scaling in univariate global optimization and its handling on the infinity computer. AIP Conference Proceedings, 2019, , .	0.3	3
31	Univariate Algorithms for Solving Global Optimization Problems with Multiextremal Non-differentiable Constraints. , 2007, , 123-140.		3
32	On Deterministic Diagonal Methods for Solving Global Optimization Problems with Lipschitz Gradients. Springer Proceedings in Mathematics and Statistics, 2015, , 315-334.	0.1	2
33	Comments upon the usage of derivatives in Lipschitz global optimization. AIP Conference Proceedings, 2016, , .	0.3	1
34	Acceleration techniques in the univariate Lipschitz global optimization. AIP Conference Proceedings, 2016, , .	0.3	1
35	Preface: The 2nd International Conference â€œNumerical Computations: Theory and Algorithmsâ€• NUMTAâ€“2016. AIP Conference Proceedings, 2016, , .	0.3	1
36	A Numerical Comparison of Some Deterministic and Nature-Inspired Algorithms for Black-Box Global Optimization. , 0, , .		1

#	Article	IF	Citations
37	Optimization problems in structured low rank approximation. AIP Conference Proceedings, 2016, , .	0.3	0