

# Victor Gergel

## List of Publications by Year in descending order

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46  
papers

372  
citations

932766

10  
h-index

839053

18  
g-index

51  
all docs

51  
docs citations

51  
times ranked

90  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parallel global optimization on GPU. Journal of Global Optimization, 2016, 66, 3-20.	1.1	50
2	Local Tuning in Nested Scheme of Global Optimization. Procedia Computer Science, 2015, 51, 865-874.	1.2	49
3	Adaptive nested optimization scheme for multidimensional global search. Journal of Global Optimization, 2016, 66, 35-51.	1.1	43
4	Globalizer: A novel supercomputer software system for solving time-consuming global optimization problems. Numerical Algebra, Control and Optimization, 2018, 8, 47-62.	1.0	26
5	Solving global optimization problems on GPU cluster. AIP Conference Proceedings, 2016, , .	0.3	20
6	A Two-Level Parallel Global Search Algorithm for Solution of Computationally Intensive Multiextremal Optimization Problems. Lecture Notes in Computer Science, 2015, , 505-515.	1.0	19
7	Heterogeneous Parallel Computations for Solving Global Optimization Problems1. Procedia Computer Science, 2015, 66, 53-62.	1.2	18
8	Efficient multicriterial optimization based on intensive reuse of search information. Journal of Global Optimization, 2018, 71, 73-90.	1.1	17
9	Use of Xeon Phi Coprocessor for Solving Global Optimization Problems. Lecture Notes in Computer Science, 2015, , 307-318.	1.0	16
10	Challenges of a Systematic Approach to Parallel Computing and Supercomputing Education. Lecture Notes in Computer Science, 2015, , 90-101.	1.0	11
11	A Unified Approach to Use of Coprocessors of Various Types for Solving Global Optimization Problems. , 2015, , .		10
12	Generalized Parallel Computational Schemes for Time-Consuming Global Optimization. Lobachevskii Journal of Mathematics, 2018, 39, 576-586.	0.1	9
13	Optimization of Drop Characteristics in a Carrier Cooled Gas Stream Using ANSYS and Globalizer Software Systems on the PNRPU High-Performance Cluster. Communications in Computer and Information Science, 2017, , 331-345.	0.4	7
14	An Approach for Generating Test Problems of Constrained Global Optimization. Lecture Notes in Computer Science, 2017, , 314-319.	1.0	7
15	Accelerating multicriterial optimization by the intensive exploitation of accumulated search data. AIP Conference Proceedings, 2016, , .	0.3	6
16	Globalizer â€“ A Parallel Software System for Solving Global Optimization Problems. Lecture Notes in Computer Science, 2017, , 492-499.	1.0	6
17	A flexible generator of constrained global optimization test problems. AIP Conference Proceedings, 2019, , .	0.3	6
18	Adaptive Dimensionality Reduction in Multiobjective Optimization with Multiextremal Criteria. Lecture Notes in Computer Science, 2019, , 129-140.	1.0	6

#	ARTICLE	IF	CITATIONS
19	Computationally efficient approach for solving lexicographic multicriteria optimization problems. Optimization Letters, 2021, 15, 2469-2495.	0.9	5
20	Multidimensional global optimization using numerical estimates of objective function derivatives. Optimization Methods and Software, 2019, , 1-21.	1.6	4
21	Efficient Methods of Multicriterial Optimization Based on the Intensive Use of Search Information. Springer Proceedings in Mathematics and Statistics, 2017, , 27-45.	0.1	4
22	Parallel Computing for Time-Consuming Multicriterial Optimization Problems. Lecture Notes in Computer Science, 2017, , 446-458.	1.0	4
23	Parallel Numerical Methods Course for Future Scientists and Engineers. Communications in Computer and Information Science, 2017, , 3-13.	0.4	4
24	Global Optimization Using Numerical Approximations of Derivatives. Lecture Notes in Computer Science, 2017, , 320-325.	1.0	3
25	An Approach for Parallel Solving the Multicriterial Optimization Problems with Non-convex Constraints. Communications in Computer and Information Science, 2017, , 121-135.	0.4	3
26	Comprehensive Collection of Time-Consuming Problems for Intensive Training on High Performance Computing. Communications in Computer and Information Science, 2019, , 523-530.	0.4	2
27	Multiextremal Optimization in Feasible Regions with Computable Boundaries on the Base of the Adaptive Nested Scheme. Lecture Notes in Computer Science, 2020, , 112-123.	1.0	2
28	GPU-Based Parallel Computations in Multicriterial Optimization. Communications in Computer and Information Science, 2019, , 88-100.	0.4	1
29	An Approach for Simultaneous Finding of Multiple Efficient Decisions in Multi-objective Optimization Problems. Lecture Notes in Computer Science, 2021, , 127-143.	1.0	1
30	A Global Optimization Algorithm for Non-Convex Mixed-Integer Problems. Lecture Notes in Computer Science, 2019, , 78-81.	1.0	1
31	Multilevel Parallel Computations for Solving Multistage Multicriteria Optimization Problems. Lecture Notes in Computer Science, 2020, , 17-30.	1.0	1
32	Combining Local and Global Search in a Parallel Nested Optimization Scheme. Communications in Computer and Information Science, 2020, , 100-112.	0.4	1
33	Internet-Oriented Educational Course "Introduction to Parallel Computing": A Simple Way to Start. Communications in Computer and Information Science, 2016, , 291-303.	0.4	1
34	HPC Implementation of the Multipoint Approximation Method for Large Scale Design Optimization Problems Under Uncertainty. , 2019, , 296-306.		1
35	Parallel Dimensionality Reduction for Multiextremal Optimization Problems. Lecture Notes in Computer Science, 2019, , 166-178.	1.0	1
36	Multistage Global Search Using Various Scalarization Schemes in Multicriteria Optimization Problems. Advances in Intelligent Systems and Computing, 2020, , 638-648.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Parallel Computations for Various Scalarization Schemes in Multicriteria Optimization Problems. Lecture Notes in Computer Science, 2020, , 174-184.	1.0	1
38	Comparative Analysis of Parallel Computational Schemes for Solving Time-Consuming Decision-Making Problems. Communications in Computer and Information Science, 2019, , 107-121.	0.4	0
39	Parametric Randomization for Accelerating the Nested Global Optimization. Communications in Computer and Information Science, 2021, , 232-246.	0.4	0
40	Parallel solving of multiple information-coordinated global optimization problems. Journal of Parallel and Distributed Computing, 2021, 154, 153-162.	2.7	0
41	Globalizer Lite: A Software System for Solving Global Optimization Problems. Communications in Computer and Information Science, 2017, , 130-143.	0.4	0
42	Solving Time-Consuming Global Optimization Problems with Globalizer Software System. Communications in Computer and Information Science, 2017, , 108-120.	0.4	0
43	A Highly Parallel Approach for Solving Computationally Expensive Multicriteria Optimization Problems. Communications in Computer and Information Science, 2019, , 3-14.	0.4	0
44	Global Optimization Method with Numerically Calculated Function Derivatives. Communications in Computer and Information Science, 2020, , 3-14.	0.4	0
45	A Visual-Based Approach for Evaluating Global Optimization Methods. Communications in Computer and Information Science, 2020, , 137-149.	0.4	0
46	Multidimensional Global Search Using Numerical Estimations of Minimized Function Derivatives and Adaptive Nested Optimization Scheme. Lecture Notes in Computer Science, 2020, , 378-385.	1.0	0