Gabriele Eichfelder

List of Publications by Year
in descending order

57 papers	1,324 citations	471509 17 h-index	361022 35 g-index
64 all docs	64 docs citations	64 times ranked	840 citing authors

#	Article	IF	Citations
1	Adaptive Scalarization Methods in Multiobjective Optimization. Vector Optimization, 2008, , .	0.7	234
2	Local specific absorption rate control for parallel transmission by virtual observation points. Magnetic Resonance in Medicine, 2011, 66, 1468-1476.	3.0	204
3	Multiobjective bilevel optimization. Mathematical Programming, 2010, 123, 419-449.	2.4	128
4	An Adaptive Scalarization Method in Multiobjective Optimization. SIAM Journal on Optimization, 2009, 19, 1694-1718.	2.0	87
5	Scalarizations for adaptively solving multi-objective optimization problems. Computational Optimization and Applications, 2009, 44, 249-273.	1.6	74
6	Optimal Elements in Vector Optimization with a Variable Ordering Structure. Journal of Optimization Theory and Applications, 2011, 151, 217-240.	1.5	54
7	Variable Ordering Structures in Vector Optimization. Vector Optimization, 2014, , .	0.7	52
8	Optimality conditions for vector optimization problems with variable ordering structures. Optimization, 2013, 62, 597-627.	1.7	49
9	Properly optimal elements in vector optimization with variable ordering structures. Journal of Global Optimization, 2014, 60, 689-712.	1.8	31
10	Variable Ordering Structures in Vector Optimization. Vector Optimization, 2012, , 95-126.	0.7	30
11	Numerical Procedures in Multiobjective Optimization with Variable Ordering Structures. Journal of Optimization Theory and Applications, 2014, 162, 489-514.	1.5	30
12	Decision uncertainty in multiobjective optimization. Journal of Global Optimization, 2017, 69, 485-510.	1.8	27
13	A Branch--and--Bound-Based Algorithm for Nonconvex Multiobjective Optimization. SIAM Journal on Optimization, 2019, 29, 794-821.	2.0	25
14	A Trust-Region Algorithm for Heterogeneous Multiobjective Optimization. SIAM Journal on Optimization, 2019, 29, 1017-1047.	2.0	25
15	On the set-semidefinite representation of nonconvex quadratic programs over arbitrary feasible sets. Optimization Letters, 2013, 7, 1373-1386.	1.6	22
16	Solving Multiobjective Mixed Integer Convex Optimization Problems. SIAM Journal on Optimization, 2020, 30, 3122-3145.	2.0	21
17	A Constraint Method in Nonlinear Multi-Objective Optimization. Lecture Notes in Economics and Mathematical Systems, 2009, , 3-12.	0.3	18
18	Cone-valued maps in optimization. Applicable Analysis, 2012, 91, 1831-1846.	1.3	18

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19	Vector Optimization Problems and Their Solution Concepts. Vector Optimization, 2012, , 1-27.	0.7	17
20	Copositivity detection by difference-of-convex decomposition and Ï‰-subdivision. Mathematical Programming, 2013, 138, 365-400.	2.4	17
21	Set Approach for Set Optimization with Variable Ordering Structures Part II: Scalarization Approaches. Journal of Optimization Theory and Applications, 2016, 171, 947-963.	1.5	13
22	Set Approach for Set Optimization with Variable Ordering Structures Part I: Set Relations and Relationship to Vector Approach. Journal of Optimization Theory and Applications, 2016, 171, 931-946.	1.5	13
23	An algorithmic approach to multiobjective optimization with decision uncertainty. Journal of Global Optimization, 2020, 77, 3-25.	1.8	11
24	Characterization of properly optimal elements with variable ordering structures. Optimization, 2016, 65, 571-588.	1.7	10
25	A general branch-and-bound framework for continuous global multiobjective optimization. Journal of Global Optimization, 2021, 80, 195-227.	1.8	10
26	Twenty years of continuous multiobjective optimization in the twenty-first century. EURO Journal on Computational Optimization, 2021, 9, 100014.	2.4	8
27	Copositivity tests based on the linear complementarity problem. Computational Optimization and Applications, 2016, 63, 461-493.	1.6	6
28	Numerical results for the multiobjective trust region algorithm MHT. Data in Brief, 2019, 25, 104103.	1.0	6
29	Coordinate transformation and its uncertainty under consideration of a non-orthogonal coordinate base. Measurement Science and Technology, 2021, 32, 045001.	2.6	6
30	A decision space algorithm for multiobjective convex quadratic integer optimization. Computers and Operations Research, 2021, 134, 105396.	4.0	6
31	Proximity measures based on KKT points for constrained multi-objective optimization. Journal of Global Optimization, 2021, 80, 63-86.	1.8	5
32	Foundations of Set-Semidefinite Optimization. Springer Optimization and Its Applications, 2010, , 259-284.	0.9	5
33	An approximation algorithm for multi-objective optimization problems using a box-coverage. Journal of Global Optimization, 2022, 83, 329-357.	1.8	5
34	On the exactness of the Îµ-constraint method for biobjective nonlinear integer programming. Operations Research Letters, 2022, 50, 356-361.	0.7	5
35	On the effects of combining objectives in multi-objective optimization. Mathematical Methods of Operations Research, 2015, 82, 1-18.	1.0	3
36	Optimality conditions for set optimization using a directional derivative based on generalized Steiner sets. Optimization, 2022, 71, 2273-2314.	1.7	3

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37	Expensive multi-objective optimization of electromagnetic mixing in a liquid metal. Optimization and Engineering, 2021, 22, 1065-1089.	2.4	3
38	Methods for Multiobjective Bilevel Optimization. Springer Optimization and Its Applications, 2020, , 423-449.	0.9	3
39	A modification of the $$\alpha \hbox {BB}$$ α BB method for box-constrained optimization and an application to inverse kinematics. EURO Journal on Computational Optimization, 2016, 4, 93-121.	2.4	2
40	An algorithm for computing Fréchet means on the sphere. Optimization Letters, 2019, 13, 1523-1533.	1.6	2
41	Nonconvex constrained optimization by a filtering branch and bound. Journal of Global Optimization, 2021, 80, 31-61.	1.8	2
42	Solving set-valued optimization problems using a multiobjective approach. Optimization, 0, , 1-32.	1.7	2
43	A note on completely positive relaxations of quadratic problems in a multiobjective framework. Journal of Global Optimization, 2022, 82, 615-626.	1.8	2
44	A Vectorization Scheme for Nonconvex Set Optimization Problems. SIAM Journal on Optimization, 2022, 32, 1184-1209.	2.0	2
45	Maximum electromagnetic drag configurations for a translating conducting cylinder with distant magnetic dipoles. Journal of Engineering Mathematics, 2018, 108, 123-141.	1.2	1
46	Using a B&B algorithm from multiobjective optimization to solve constrained optimization problems. AIP Conference Proceedings, 2019, , .	0.4	1
47	On Classes of Set Optimization Problems which are Reducible to Vector Optimization Problems and its Impact on Numerical Test Instances. , 2019, , 241-265.		1
48	Limit sets in global multiobjective optimization. Optimization, 2024, 73, 1-27.	1.7	1
49	Cone-Valued Maps. Vector Optimization, 2014, , 57-75.	0.7	0
50	Nonlinear Scalarizations. Vector Optimization, 2014, , 89-104.	0.7	0
51	Outlook and Further Application Areas. Vector Optimization, 2014, , 175-180.	0.7	0
52	Duality Results. Vector Optimization, 2014, , 139-152.	0.7	0
53	Linear Scalarizations. Vector Optimization, 2014, , 77-88.	0.7	0
54	Optimality Concepts and Their Characterization. Vector Optimization, 2014, , 27-55.	0.7	0

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55	Optimality Conditions for Vector Optimization Problems. Vector Optimization, 2014, , 117-138.	0.7	0
56	Variable Ordering Structures. Vector Optimization, 2014, , 1-25.	0.7	0
57	Scalarizations for Variable Orderings Given by Bishop-Phelps Cones. Vector Optimization, 2014, , 105-115.	0.7	0