Nikolaos Ploskas

List of Publications by Year
in descending order

40 papers	260 citations	1162367 8 h-index	996533 15 g-index
48 all docs	48 docs citations	48 times ranked	225 citing authors

#	Article	IF	Citations
1	A decision support system for multiple criteria alternative ranking using TOPSIS and VIKOR in fuzzy and nonfuzzy environments. Fuzzy Sets and Systems, 2019, 377, 1-30.	1.6	49
2	Linear Programming Using MATLABÂ®. Springer Optimization and Its Applications, 2017, , .	0.6	25
3	Optimization of circuitry arrangements for heat exchangers using derivative-free optimization. Chemical Engineering Research and Design, 2018, 131, 16-28.	2.7	24
4	Efficient GPU-based implementations of simplex type algorithms. Applied Mathematics and Computation, 2015, 250, 552-570.	1.4	21
5	Tuning BARON using derivative-free optimization algorithms. Journal of Global Optimization, 2019, 74, 611-637.	1.1	18
6	GPU accelerated pivoting rules for the simplex algorithm. Journal of Systems and Software, 2014, 96, 1-9.	3.3	14
7	A Decision Support System for Multiple Criteria Alternative Ranking Using TOPSIS and VIKOR: A Case Study on Social Sustainability in Agriculture. Lecture Notes in Business Information Processing, 2016, , 3-15.	0.8	14
8	A computational comparison of scaling techniques for linear optimization problems on a graphical processing unit. International Journal of Computer Mathematics, 2015, 92, 319-336.	1.0	10
9	GPU parameter tuning for tall and skinny dense linear least squares problems. Optimization Methods and Software, 2020, 35, 638-660.	1.6	9
10	Review and comparison of algorithms and software for mixed-integer derivative-free optimization. Journal of Global Optimization, 2022, 82, 433-462.	1.1	7
11	A Computational Comparison of Basis Updating Schemes for the Simplex Algorithm on a CPU-GPU System. American Journal of Operations Research, 2013, 03, 497-505.	0.2	7
12	A computational evaluation of some free mathematical software for scientific computing. Journal of Computational Science, 2010, 1, 150-158.	1.5	6
13	Evaluating and ranking patents with multiple criteria: How many criteria are required to find the most promising patents?. Computers and Chemical Engineering, 2019, 123, 317-330.	2.0	6
14	Analysis and design of a web-based decision support system for choosing higher education studies. Yugoslav Journal of Operations Research, 2014, 24, 399-414.	0.5	6
15	Assessing Computer Network Efficiency Using Data Envelopment Analysis and Multicriteria Decision Analysis Techniques. Journal of Multi-Criteria Decision Analysis, 2015, 22, 260-278.	1.0	5
16	Pivoting rules for the revised simplex algorithm. Yugoslav Journal of Operations Research, 2014, 24, 321-332.	0.5	5
17	The impact of scaling on simplex type algorithms. , 2013, , .		4
18	An Interactive Spatial Decision Support System Enabling Co-Located Collaboration using Tangible User Interfaces for the Multiple Capacitated Facility Location Problem. International Journal of Decision Support System Technology, 2015, 7, 15-28.	0.4	4

#	Article	IF	Citations
19	Multi-Robot Coverage Path Planning in 3-Dimensional Environments. , 2019, , .		4
20	Improving a primalâ€“dual simplex-type algorithm using interior point methods. Optimization, 2018, 67, 2259-2274.	1.0	2
21	A Collaborative Spatial Decision Support System for the Capacitated Vehicle Routing Problem on a Tabletop Display. Lecture Notes in Business Information Processing, 2015, , 26-36.	0.8	2
22	A Web-Based Decision Support System Using Basis Update on Simplex Type Algorithms. Lecture Notes in Business Information Processing, 2013, , 102-114.	0.8	2
23	Dynamic Simulation-Based Surrogate Model for the Dimensioning of Building Energy Systems. Energies, 2021, 14, 7141.	1.6	2
24	A triangulation and fill-reducing initialization procedure for the simplex algorithm. Mathematical Programming Computation, 2021, 13, 491-508.	3.2	1
25	Interior Point Methods. Springer Optimization and Its Applications, 2017, , 491-540.	0.6	1
26	Exterior Point Simplex Algorithm. Springer Optimization and Its Applications, 2017, , 437-490.	0.6	1
27	Implementation of an Extended Fuzzy VIKOR Method Based on Triangular and Trapezoidal Fuzzy Linguistic Variables and Alternative Deffuzification Techniques. Lecture Notes in Business Information Processing, 2017, , 165-178.	0.8	1
28	Power Consumption Estimation in Data Centers Using Machine Learning Techniques. Lecture Notes in Computer Science, 2020, , 195-200.	1.0	1
29	Combining interior and exterior simplex type algorithms. , 2013, , .		0
30	A Decision Support System for Solving Linear Programming Problems. International Journal of Decision Support System Technology, 2014, 6, 46-62.	0.4	0
31	A Tangible Collaborative Decision Support System for Various Variants of the Vehicle Routing Problem. Lecture Notes in Business Information Processing, 2015, , 73-84.	0.8	0
32	Heat Exchanger Circuitry Design by Decision Diagrams. Lecture Notes in Computer Science, 2019, , 461-471.	1.0	0
33	Basis Inverse and Update Methods. Springer Optimization and Its Applications, 2017, , 303-328.	0.6	0
34	Revised Dual Simplex Algorithm. Springer Optimization and Its Applications, 2017, , 383-435.	0.6	0
35	Presolve Methods. Springer Optimization and Its Applications, 2017, , 135-217.	0.6	0
36	Pivoting Rules. Springer Optimization and Its Applications, 2017, , 277-302.	0.6	0

#	Article	IF	Citations
37	Linear Programming Benchmark and Random Problems. Springer Optimization and Its Applications, 2017, , 73-134.	0.6	0
38	Predicting the Execution Time of the Interior Point Method for Solving Linear Programming Problems Using Artificial Neural Networks. Lecture Notes in Computer Science, 2020, , 319-324.	1.0	0
39	Predicting the Execution Time of the Primal and Dual Simplex Algorithms Using Artificial Neural Networks. Mathematics, 2022, 10, 1038.	1.1	0
40	Design optimization of multi energy systems for domestic hot water uses on the building sector. , 0, , 1-18.		0