George Mavrotas

List of Publications by Year
in descending order

34 papers	2,943 citations	304743 22 h-index	414414 32 g-index
34 all docs	34 docs citations	34 times ranked	2676 citing authors

#	Article	IF	Citations
1	Combining multiple criteria analysis, mathematical programming and Monte Carlo simulation to tackle uncertainty in Research and Development project portfolio selection: A case study from Greece. European Journal of Operational Research, 2021, 291, 794-806.	5.7	40
2	Data for absorption, evaluation and effectiveness of R&D projects in Greece. Data in Brief, 2021, 37, 107273.	1.0	0
3	Multiobjective portfolio optimization: bridging mathematical theory with asset management practice. Annals of Operations Research, 2018, 267, 585-606.	4.1	4
4	Environmental corporate responsibility for investments evaluation: an alternative multi-objective programming model. Annals of Operations Research, 2016, 247, 395-413.	4.1	15
5	Municipal solid waste management and energy production: Consideration of external cost through multi-objective optimization and its effect on waste-to-energy solutions. Renewable and Sustainable Energy Reviews, 2015, 51, 1205-1222.	16.4	63
6	An improved version of a core based algorithm for the multi-objective multi-dimensional knapsack problem: A computational study and comparison with meta-heuristics. Applied Mathematics and Computation, 2015, 270, 25-43.	2.2	11
7	Robustness analysis methodology for multi-objective combinatorial optimization problems and application to project selection. Omega, 2015, 52, 142-155.	5.9	39
8	Robustness analysis in Multi-Objective Mathematical Programming using Monte Carlo simulation. European Journal of Operational Research, 2015, 240, 193-201.	5.7	27
9	Multiobjective portfolio optimization with non-convex policy constraints: Evidence from the Eurostoxx 50. European Journal of Finance, 2014, 20, 957-977.	3.1	23
10	Comparative issues between linear and non-linear risk measures for non-convex portfolio optimization: evidence from the S&P 500. Quantitative Finance, 2014, 14, 1229-1242.	1.7	4
11	Generation of the exact Pareto set in Multi-Objective Traveling Salesman and Set Covering Problems. Applied Mathematics and Computation, 2014, 237, 1-19.	2.2	40
12	A multi-objective programming model for assessment the GHG emissions in MSW management. Waste Management, 2013, 33, 1934-1949.	7.4	35
13	An improved version of the augmented Îµ-constraint method (AUGMECON2) for finding the exact pareto set in multi-objective integer programming problems. Applied Mathematics and Computation, 2013, 219, 9652-9669.	2.2	358
14	The trichotomic approach for dealing with uncertainty in project portfolio selection: combining MCDA, mathematical programming and Monte Carlo simulation. International Journal of Multicriteria Decision Making, 2013, 3, 79.	0.2	15
15	Combining Mathematical Programming and Monte Carlo Simulation to Deal with Uncertainty in Energy Project Portfolio Selection. Green Energy and Technology, 2013, , 333-356.	0.6	9
16	Portfolio Optimization. Springer Optimization and Its Applications, 2012, , 57-83.	0.9	0
17	Using the idea of expanded core for the exact solution of bi-objective multi-dimensional knapsack problems. Journal of Global Optimization, 2011, 49, 589-606.	1.8	11
18	IPSSIS: An integrated multicriteria decision support system for equity portfolio construction and selection. European Journal of Operational Research, 2011, 210, 398-409.	5.7	65

#	Article	IF	Citations
19	Equity portfolio construction and selection using multiobjective mathematical programming. Journal of Global Optimization, 2010, 47, 185-209.	1.8	31
20	Energy planning of a hospital using Mathematical Programming and Monte Carlo simulation for dealing with uncertainty in the economic parameters. Energy Conversion and Management, 2010, 51, 722-731.	9.2	72
21	Solving multiobjective, multiconstraint knapsack problems using mathematical programming and evolutionary algorithms. European Journal of Operational Research, 2010, 203, 14-21.	5.7	44
22	Portfolio construction on the Athens Stock Exchange: a multiobjective optimization approach. Optimization, 2010, 59, 1211-1229.	1.7	27
23	A multicriteria methodology for equity selection using financial analysis. Computers and Operations Research, 2009, 36, 3187-3203.	4.0	77
24	Effective implementation of the Îµ-constraint method in Multi-Objective Mathematical Programming problems. Applied Mathematics and Computation, 2009, 213, 455-465.	2.2	1,420
25	Solving the bi-objective multi-dimensional knapsack problem exploiting the concept of core. Applied Mathematics and Computation, 2009, 215, 2502-2514.	2.2	21
26	Selection among ranked projects under segmentation, policy and logical constraints. European Journal of Operational Research, 2008, 187, 177-192.	5.7	79
27	A mathematical programming framework for energy planning in servicesâ€™ sector buildings under uncertainty in load demand: The case of a hospital in Athens. Energy Policy, 2008, 36, 2415-2429.	8.8	104
28	Freight village design using the multicriteria method PROMETHEE. Operational Research, 2007, 7, 213-231.	2.0	27
29	Project prioritization under policy restrictions. A combination of MCDA with 0â€“1 programming. European Journal of Operational Research, 2006, 171, 296-308.	5.7	87
30	Multicriteria decision analysis with minimum information: combining DEA with MAVT. Computers and Operations Research, 2006, 33, 2083-2098.	4.0	36
31	A Combined MOIPâ€“MCDA Approach to Building and Screening Atmospheric Pollution Control Strategies in Urban Regions. Environmental Management, 2006, 38, 149-160.	2.7	18
32	Energy planning in buildings under uncertainty in fuel costs: The case of a hospital in Greece. Computer Aided Chemical Engineering, 2006, 21, 1735-1740.	0.5	6
33	Multi-criteria branch and bound: A vector maximization algorithm for Mixed 0-1 Multiple Objective Linear Programming. Applied Mathematics and Computation, 2005, 171, 53-71.	2.2	70
34	Energy planning in buildings under uncertainty in fuel costs: The case of a hotel unit in Greece. Energy Conversion and Management, 2003, 44, 1303-1321.	9.2	65