

Maria Paola Scaparra

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

1,879
citations

21
h-index

43
g-index

44
ext. papers

2,133
ext. citations

3
avg, IF

5.22
L-index

#	Paper	IF	Citations
44	A bilevel mixed-integer program for critical infrastructure protection planning. <i>Computers and Operations Research</i> , 2008 , 35, 1905-1923	4.6	255
43	Identifying Critical Infrastructure: The Median and Covering Facility Interdiction Problems. <i>Annals of the American Association of Geographers</i> , 2004 , 94, 491-502		242
42	Protecting Critical Assets: The r-Interdiction Median Problem with Fortification. <i>Geographical Analysis</i> , 2007 , 39, 129-146	2.9	176
41	Hedging against disruptions with ripple effects in location analysis. <i>Omega</i> , 2012 , 40, 21-30	7.2	143
40	Analysis of facility protection strategies against an uncertain number of attacks: The stochastic R-interdiction median problem with fortification. <i>Computers and Operations Research</i> , 2011 , 38, 357-366	4.6	123
39	A hierarchical compromise model for the joint optimization of recovery operations and distribution of emergency goods in Humanitarian Logistics. <i>Computers and Operations Research</i> , 2014 , 42, 3-13	4.6	115
38	Optimizing system resilience: A facility protection model with recovery time. <i>European Journal of Operational Research</i> , 2012 , 217, 519-530	5.6	108
37	An exact solution approach for the interdiction median problem with fortification. <i>European Journal of Operational Research</i> , 2008 , 189, 76-92	5.6	105
36	Optimal Allocation of Protective Resources in Shortest-Path Networks. <i>Transportation Science</i> , 2011 , 45, 64-80	4.4	87
35	A Multi-Exchange Heuristic for the Single-Source Capacitated Facility Location Problem. <i>Management Science</i> , 2004 , 50, 749-760	3.9	81
34	Probability chains: A general linearization technique for modeling reliability in facility location and related problems. <i>European Journal of Operational Research</i> , 2013 , 230, 63-75	5.6	40
33	The stochastic interdiction median problem with disruption intensity levels. <i>Annals of Operations Research</i> , 2012 , 201, 345-365	3.2	37
32	Optimising shelter location and evacuation routing operations: The critical issues. <i>European Journal of Operational Research</i> , 2019 , 279, 279-295	5.6	37
31	Protecting Supply Systems to Mitigate Potential Disaster: A Model to Fortify Capacitated Facilities. <i>International Regional Science Review</i> , 2012 , 35, 188-210	1.8	35
30	A GRASP and Path Relinking Heuristic for Rural Road Network Development. <i>Journal of Heuristics</i> , 2005 , 11, 89-108	1.9	30
29	Optimizing dynamic investment decisions for railway systems protection. <i>European Journal of Operational Research</i> , 2016 , 248, 543-557	5.6	26
28	Reliable Hub Network Design: Formulation and Solution Techniques. <i>Transportation Science</i> , 2017 , 51, 358-375	4.4	24

27	An adaptive multiphase approach for large unconditional and conditional p-median problems. <i>European Journal of Operational Research</i> , 2014 , 237, 590-605	5.6	23
26	Large-scale local search heuristics for the capacitated vertex p-center problem. <i>Networks</i> , 2004 , 43, 241-255		22
25	Corridor location: the multi-gateway shortest path model. <i>Journal of Geographical Systems</i> , 2014 , 16, 287-309	1.8	21
24	Optimizing Protection Strategies for Supply Chains: Comparing Classic Decision-Making Criteria in an Uncertain Environment. <i>Annals of the American Association of Geographers</i> , 2011 , 101, 1241-1258		21
23	A multi-period shelter location-allocation model with evacuation orders for flood disasters. <i>EURO Journal on Computational Optimization</i> , 2016 , 4, 299-323	1.2	20
22	On a bi-level formulation to protect uncapacitated p-median systems with facility recovery time and frequent disruptions. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 591-598	0.3	18
21	A dynamic model for road protection against flooding. <i>Journal of the Operational Research Society</i> , 2017 , 68, 74-88	2	16
20	Passenger railway network protection: a model with variable post-disruption demand servicePlease note this paper has been re-typeset by Taylor & Francis from the manuscript originally provided to the previous publisher.View all notes. <i>Journal of the Operational Research Society</i> , 2018 , 69, 603-618	2	15
19	Estimating Business and Management journal quality from the 2008 Research Assessment Exercise in the UK. <i>Information Processing and Management</i> , 2012 , 48, 1078-1093	6.3	13
18	A hypergraph multi-exchange heuristic for the single-source capacitated facility location problem. <i>European Journal of Operational Research</i> , 2017 , 263, 173-187	5.6	9
17	Masterplanning at the Port of Dover: The Use of Discrete-Event Simulation in Managing Road Traffic. <i>Sustainability</i> , 2020 , 12, 1067	3.6	8
16	Location Problems Under Disaster Events 2015 , 623-642		6
15	Assessing road network vulnerability: A user equilibrium interdiction model. <i>Journal of the Operational Research Society</i> , 2020 , 1-16	2	4
14	Assessing Urban Rail Transit Systems Vulnerability: Metrics vs. Interdiction Models. <i>Lecture Notes in Computer Science</i> , 2018 , 144-155	0.9	3
13	A Review of Hybrid Simulation in Healthcare 2020 ,		2
12	Location Problems Under Disaster Events 2019 , 631-656		2
11	Optimizing Investment Decisions for Railway Systems Protection. <i>Topics in Safety, Risk, Reliability and Quality</i> , 2015 , 215-233	0.1	2
10	Improving supply system reliability against random disruptions: Strategic protection investment. <i>Journal of the Operational Research Society</i> , 1-18	2	2

9	Traffic Modelling at the Port of Dover. <i>Impact</i> , 2018 , 2018, 7-11	0.3	2
8	A Scenario Planning Approach for Shelter Location and Evacuation Routing. <i>Springer Proceedings in Mathematics and Statistics</i> , 2017 , 567-576	0.2	1
7	A Synthesis of Optimization Approaches for Tackling Critical Information Infrastructure Survivability. <i>Lecture Notes in Computer Science</i> , 2017 , 75-87	0.9	1
6	An integrated user-system approach for shelter location and evacuation routing. <i>Networks</i> , 2021 , 78, 46-68	1.6	1
5	Application of Discrete-Event Simulation for Planning and Operations Issues in Mental Healthcare 2019 ,		1
4	Assessing Protection Strategies for Urban Rail Transit Systems: A Case-Study on the Central London Underground. <i>Sustainability</i> , 2019 , 11, 6322	3.6	1
3	Use of OR in earthquake operations management: A review of the literature and roadmap for future research. <i>International Journal of Disaster Risk Reduction</i> , 2021 , 65, 102539	4.5	1
2	Aggregating Centrality Rankings: A Novel Approach to Detect Critical Infrastructure Vulnerabilities. <i>Lecture Notes in Computer Science</i> , 2020 , 57-68	0.9	0
1	Mind the gap: a review of optimisation in mental healthcare service delivery. <i>Health Systems</i> , 1-34	2.3	0