

Maria Paola Scaparra

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,354
citations

331259

21
h-index

301761

39
g-index

44
all docs

44
docs citations

44
times ranked

1290
citing authors

#	ARTICLE	IF	CITATIONS
1	A bilevel mixed-integer program for critical infrastructure protection planning. <i>Computers and Operations Research</i> , 2008, 35, 1905-1923.	2.4	307
2	Identifying Critical Infrastructure: The Median and Covering Facility Interdiction Problems. <i>Annals of the American Association of Geographers</i> , 2004, 94, 491-502.	3.0	298
3	Protecting Critical Assets: The r-Interdiction Median Problem with Fortification. <i>Geographical Analysis</i> , 2007, 39, 129-146.	1.9	213
4	Hedging against disruptions with ripple effects in location analysis. <i>Omega</i> , 2012, 40, 21-30.	3.6	163
5	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.	2.4	147
6	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.	2.4	145
7	An exact solution approach for the interdiction median problem with fortification. <i>European Journal of Operational Research</i> , 2008, 189, 76-92.	3.5	124
8	Optimizing system resilience: A facility protection model with recovery time. <i>European Journal of Operational Research</i> , 2012, 217, 519-530.	3.5	122
9	Optimal Allocation of Protective Resources in Shortest-Path Networks. <i>Transportation Science</i> , 2011, 45, 64-80.	2.6	106
10	A Multi-Exchange Heuristic for the Single-Source Capacitated Facility Location Problem. <i>Management Science</i> , 2004, 50, 749-760.	2.4	97
11	Optimising shelter location and evacuation routing operations: The critical issues. <i>European Journal of Operational Research</i> , 2019, 279, 279-295.	3.5	79
12	The stochastic interdiction median problem with disruption intensity levels. <i>Annals of Operations Research</i> , 2012, 201, 345-365.	2.6	47
13	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.	3.5	47
14	Protecting Supply Systems to Mitigate Potential Disaster. <i>International Regional Science Review</i> , 2012, 35, 188-210.	1.0	44
15	Optimizing dynamic investment decisions for railway systems protection. <i>European Journal of Operational Research</i> , 2016, 248, 543-557.	3.5	40
16	A multi-period shelter location-allocation model with evacuation orders for flood disasters. <i>EURO Journal on Computational Optimization</i> , 2016, 4, 299-323.	1.5	35
17	A GRASP and Path Relinking Heuristic for Rural Road Network Development. <i>Journal of Heuristics</i> , 2005, 11, 89-108.	1.1	34
18	Large-scale local search heuristics for the capacitated vertex-center problem. <i>Networks</i> , 2004, 43, 241-255.	1.6	32

#	ARTICLE	IF	CITATIONS
19	Reliable Hub Network Design: Formulation and Solution Techniques. <i>Transportation Science</i> , 2017, 51, 358-375.	2.6	29
20	An adaptive multiphase approach for large unconditional and conditional p-median problems. <i>European Journal of Operational Research</i> , 2014, 237, 590-605.	3.5	28
21	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.	3.0	23
22	Corridor location: the multi-gateway shortest path model. <i>Journal of Geographical Systems</i> , 2014, 16, 287-309.	1.9	23
23	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.	0.4	21
24	A dynamic model for road protection against flooding. <i>Journal of the Operational Research Society</i> , 2017, 68, 74-88.	2.1	21
25	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.	5.4	16
26	Passenger railway network protection: a model with variable post-disruption demand service. <i>Journal of the Operational Research Society</i> , 2018, 69, 603-618.	2.1	16
27	A hypergraph multi-exchange heuristic for the single-source capacitated facility location problem. <i>European Journal of Operational Research</i> , 2017, 263, 173-187.	3.5	13
28	Masterplanning at the Port of Dover: The Use of Discrete-Event Simulation in Managing Road Traffic. <i>Sustainability</i> , 2020, 12, 1067.	1.6	13
29	Location Problems Under Disaster Events. , 2015, , 623-642.		9
30	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.	1.8	8
31	Assessing Protection Strategies for Urban Rail Transit Systems: A Case-Study on the Central London Underground. <i>Sustainability</i> , 2019, 11, 6322.	1.6	6
32	Assessing road network vulnerability: A user equilibrium interdiction model. <i>Journal of the Operational Research Society</i> , 2021, 72, 1648-1663.	2.1	6
33	An integrated <scp>userâ€system</scp> approach for shelter location and evacuation routing. <i>Networks</i> , 2021, 78, 46-68.	1.6	6
34	Mind the gap: a review of optimisation in mental healthcare service delivery. <i>Health Systems</i> , 2023, 12, 133-166.	0.9	6
35	Improving supply system reliability against random disruptions: Strategic protection investment. <i>Journal of the Operational Research Society</i> , 2022, 73, 1307-1324.	2.1	5
36	Location Problems Under Disaster Events. , 2019, , 631-656.		5

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37	Optimizing Investment Decisions for Railway Systems Protection. Topics in Safety, Risk, Reliability and Quality, 2015, , 215-233.	0.1	5
38	Application of Discrete-Event Simulation for Planning and Operations Issues in Mental Healthcare. , 2019, , .		3
39	Assessing Urban Rail Transit Systems Vulnerability: Metrics vs. Interdiction Models. Lecture Notes in Computer Science, 2018, , 144-155.	1.0	3
40	A Review of Hybrid Simulation in Healthcare. , 2020, , .		3
41	Traffic Modelling at the Port of Dover. Impact, 2018, 2018, 7-11.	0.2	2
42	Aggregating Centrality Rankings: A Novel Approach to Detect Critical Infrastructure Vulnerabilities. Lecture Notes in Computer Science, 2020, , 57-68.	1.0	2