Maria Paola Scaparra

List of Publications by Year
in descending order

42 papers	2,354 citations	331670 21 h-index	302126 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. Computers and Operations Research, 2008, 35, 1905-1923.	4.0	307
2	Identifying Critical Infrastructure: The Median and Covering Facility Interdiction Problems. Annals of the American Association of Geographers, 2004, 94, 491-502.	3.0	298
3	Protecting Critical Assets: The r-Interdiction Median Problem with Fortification. Geographical Analysis, 2007, 39, 129-146.	3.5	213
4	Hedging against disruptions with ripple effects in location analysis. Omega, 2012, 40, 21-30.	5.9	163
5	Analysis of facility protection strategies against an uncertain number of attacks: The stochastic R-interdiction median problem with fortification. Computers and Operations Research, 2011, 38, 357-366.	4.0	147
6	A hierarchical compromise model for the joint optimization of recovery operations and distribution of emergency goods in Humanitarian Logistics. Computers and Operations Research, 2014, 42, 3-13.	4.0	145
7	An exact solution approach for the interdiction median problem with fortification. European Journal of Operational Research, 2008, 189, 76-92.	5.7	124
8	Optimizing system resilience: A facility protection model with recovery time. European Journal of Operational Research, 2012, 217, 519-530.	5.7	122
9	Optimal Allocation of Protective Resources in Shortest-Path Networks. Transportation Science, 2011, 45, 64-80.	4.4	106
10	A Multi-Exchange Heuristic for the Single-Source Capacitated Facility Location Problem. Management Science, 2004, 50, 749-760.	4.1	97
11	Optimising shelter location and evacuation routing operations: The critical issues. European Journal of Operational Research, 2019, 279, 279-295.	5.7	79
12	The stochastic interdiction median problem with disruption intensity levels. Annals of Operations Research, 2012, 201, 345-365.	4.1	47
13	Probability chains: A general linearization technique for modeling reliability in facility location and related problems. European Journal of Operational Research, 2013, 230, 63-75.	5.7	47
14	Protecting Supply Systems to Mitigate Potential Disaster. International Regional Science Review, 2012, 35, 188-210.	2.1	44
15	Optimizing dynamic investment decisions for railway systems protection. European Journal of Operational Research, 2016, 248, 543-557.	5.7	40
16	A multi-period shelter location-allocation model with evacuation orders for flood disasters. EURO Journal on Computational Optimization, 2016, 4, 299-323.	2.4	35
17	A GRASP and Path Relinking Heuristic for Rural Road Network Development. Journal of Heuristics, 2005, 11, 89-108.	1.4	34
18	Large-scale local search heuristics for the capacitated vertexp-center problem. Networks, 2004, 43, 241-255.	2.7	32

#	Article	IF	Citations
19	Reliable Hub Network Design: Formulation and Solution Techniques. Transportation Science, 2017, 51, 358-375.	4.4	29
20	An adaptive multiphase approach for large unconditional and conditional p-median problems. European Journal of Operational Research, 2014, 237, 590-605.	5.7	28
21	Optimizing Protection Strategies for Supply Chains: Comparing Classic Decision-Making Criteria in an Uncertain Environment. Annals of the American Association of Geographers, 2011, 101, 1241-1258.	3.0	23
22	Corridor location: the multi-gateway shortest path model. Journal of Geographical Systems, 2014, 16, 287-309.	3.1	23
23	On a bi-level formulation to protect uncapacitated p-median systems with facility recovery time and frequent disruptions. Electronic Notes in Discrete Mathematics, 2010, 36, 591-598.	0.4	21
24	A dynamic model for road protection against flooding. Journal of the Operational Research Society, 2017, 68, 74-88.	3.4	21
25	Estimating Business and Management journal quality from the 2008 Research Assessment Exercise in the UK. Information Processing and Management, 2012, 48, 1078-1093.	8.6	16
26	Passenger railway network protection: a model with variable post-disruption demand service. Journal of the Operational Research Society, 2018, 69, 603-618.	3.4	16
27	A hypergraph multi-exchange heuristic for the single-source capacitated facility location problem. European Journal of Operational Research, 2017, 263, 173-187.	5.7	13
28	Masterplanning at the Port of Dover: The Use of Discrete-Event Simulation in Managing Road Traffic. Sustainability, 2020, 12, 1067.	3.2	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. International Journal of Disaster Risk Reduction, 2021, 65, 102539.	3.9	8
31	Assessing Protection Strategies for Urban Rail Transit Systems: A Case-Study on the Central London Underground. Sustainability, 2019, 11, 6322.	3.2	6
32	Assessing road network vulnerability: A user equilibrium interdiction model. Journal of the Operational Research Society, 2021, 72, 1648-1663.	3.4	6
33	An integrated <scp>userâ€system</scp> approach for shelter location and evacuation routing. Networks, 2021, 78, 46-68.	2.7	6
34	Mind the gap: a review of optimisation in mental healthcare service delivery. Health Systems, 2023, 12, 133-166.	1.2	6
35	Improving supply system reliability against random disruptions: Strategic protection investment. Journal of the Operational Research Society, 2022, 73, 1307-1324.	3.4	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.	0.2	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.	1.3	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.	1.3	2