Maria Paola Scaparra

List of Publications by Year in Descending Order

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	An integrated user-system approach for shelter location and evacuation routing. *Networks*, **2021**, 78, 46-68	1.6	1
43	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	4.5	1
42	Assessing road network vulnerability: A user equilibrium interdiction model. *Journal of the Operational Research Society*, **2020**, 1-16	2	4
41	Masterplanning at the Port of Dover: The Use of Discrete-Event Simulation in Managing Road Traffic. *Sustainability*, **2020**, 12, 1067	3.6	8
40	A Review of Hybrid Simulation in Healthcare **2020**,		2
39	Aggregating Centrality Rankings: A Novel Approach to Detect Critical Infrastructure Vulnerabilities. *Lecture Notes in Computer Science*, **2020**, 57-68	0.9	0
38	Location Problems Under Disaster Events **2019**, 631-656		2
37	Application of Discrete-Event Simulation for Planning and Operations Issues in Mental Healthcare **2019**,		1
36	Assessing Protection Strategies for Urban Rail Transit Systems: A Case-Study on the Central London Underground. *Sustainability*, **2019**, 11, 6322	3.6	1
35	Optimising shelter location and evacuation routing operations: The critical issues. *European Journal of Operational Research*, **2019**, 279, 279-295	5.6	37
34	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. *Journal of the Operational Research Society*, **2018**, 69, 603-618	2	15
33	Assessing Urban Rail Transit Systems Vulnerability: Metrics vs. Interdiction Models. *Lecture Notes in Computer Science*, **2018**, 144-155	0.9	3
32	Traffic Modelling at the Port of Dover. *Impact*, **2018**, 2018, 7-11	0.3	2
31	A hypergraph multi-exchange heuristic for the single-source capacitated facility location problem. *European Journal of Operational Research*, **2017**, 263, 173-187	5.6	9
30	A Scenario Planning Approach for Shelter Location and Evacuation Routing. *Springer Proceedings in Mathematics and Statistics*, **2017**, 567-576	0.2	1
29	A dynamic model for road protection against flooding. *Journal of the Operational Research Society*, **2017**, 68, 74-88	2	16
28	Reliable Hub Network Design: Formulation and Solution Techniques. *Transportation Science*, **2017**, 51, 358-375	4.4	24

27 A Synthesis of Optimization Approaches for Tackling Critical Information Infrastructure Survivability. *Lecture Notes in Computer Science*, **2017**, 75-87 — 0.9 — 1

26 A multi-period shelter location-allocation model with evacuation orders for flood disasters. *EURO Journal on Computational Optimization*, **2016**, 4, 299-323 — 1.2 — 20

25 Optimizing dynamic investment decisions for railway systems protection. *European Journal of Operational Research*, **2016**, 248, 543-557 — 5.6 — 26

24 Optimizing Investment Decisions for Railway Systems Protection. *Topics in Safety, Risk, Reliability and Quality*, **2015**, 215-233 — 0.1 — 2

23 Location Problems Under Disaster Events **2015**, 623-642 — 6

22 Corridor location: the multi-gateway shortest path model. *Journal of Geographical Systems*, **2014**, 16, 287-309 — 1.8 — 21

21 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 — 4.6 — 115

20 An adaptive multiphase approach for large unconditional and conditional p-median problems. *European Journal of Operational Research*, **2014**, 237, 590-605 — 5.6 — 23

19 Probability chains: A general linearization technique for modeling reliability in facility location and related problems. *European Journal of Operational Research*, **2013**, 230, 63-75 — 5.6 — 40

18 Optimizing system resilience: A facility protection model with recovery time. *European Journal of Operational Research*, **2012**, 217, 519-530 — 5.6 — 108

17 Hedging against disruptions with ripple effects in location analysis. *Omega*, **2012**, 40, 21-30 — 7.2 — 143

16 The stochastic interdiction median problem with disruption intensity levels. *Annals of Operations Research*, **2012**, 201, 345-365 — 3.2 — 37

15 Estimating Business and Management journal quality from the 2008 Research Assessment Exercise in the UK. *Information Processing and Management*, **2012**, 48, 1078-1093 — 6.3 — 13

14 Protecting Supply Systems to Mitigate Potential Disaster: A Model to Fortify Capacitated Facilities. *International Regional Science Review*, **2012**, 35, 188-210 — 1.8 — 35

13 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 — 21

12 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 — 4.6 — 123

11 Optimal Allocation of Protective Resources in Shortest-Path Networks. *Transportation Science*, **2011**, 45, 64-80 — 4.4 — 87

10 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 — 0.3 — 18

9	An exact solution approach for the interdiction median problem with fortification. *European Journal of Operational Research*, **2008**, 189, 76-92	5.6	105
8	A bilevel mixed-integer program for critical infrastructure protection planning. *Computers and Operations Research*, **2008**, 35, 1905-1923	4.6	255
7	Protecting Critical Assets: The r-Interdiction Median Problem with Fortification. *Geographical Analysis*, **2007**, 39, 129-146	2.9	176
6	A GRASP and Path Relinking Heuristic for Rural Road Network Development. *Journal of Heuristics*, **2005**, 11, 89-108	1.9	30
5	A Multi-Exchange Heuristic for the Single-Source Capacitated Facility Location Problem. *Management Science*, **2004**, 50, 749-760	3.9	81
4	Identifying Critical Infrastructure: The Median and Covering Facility Interdiction Problems. *Annals of the American Association of Geographers*, **2004**, 94, 491-502		242
3	Large-scale local search heuristics for the capacitated vertex p-center problem. *Networks*, **2004**, 43, 241-255	2.5	22
2	Improving supply system reliability against random disruptions: Strategic protection investment. *Journal of the Operational Research Society*, 1-18	2	2
1	Mind the gap: a review of optimisation in mental healthcare service delivery. *Health Systems*, 1-34	2.3	0