

# Andru00e9s L Medaglia

## List of Publications by Year in Descending Order

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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.

73  
papers

2,437  
citations

25  
h-index

48  
g-index

75  
ext. papers

2,829  
ext. citations

3.7  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
73	Exact bidirectional algorithm for the least expected travel-time path problem on stochastic and time-dependent networks. <i>Computers and Operations Research</i> , <b>2022</b> , 141, 105671	4.6	0
72	Optimal waterflooding management using an embedded predictive analytical model. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 208, 109419	4.4	1
71	On the shortest (alpha)-reliable path problem. <i>Top</i> , <b>2021</b> , 29, 287-318	1.3	2
70	Is the built-environment at origin, on route, and at destination associated with bicycle commuting? A gender-informed approach. <i>Journal of Transport Geography</i> , <b>2021</b> , 94, None	5.2	1
69	A column-oriented optimization approach for the generation of correlated random vectors. <i>OR Spectrum</i> , <b>2021</b> , 43, 777-808	1.9	
68	Level of traffic stress-based classification: A clustering approach for Bogot�Colombia. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2020</b> , 85, 102420	6.4	8
67	An exact bidirectional pulse algorithm for the constrained shortest path. <i>Networks</i> , <b>2020</b> , 76, 128-146	1.6	6
66	Urban Transformations and Health: Methods for TrUST-a Natural Experiment Evaluating the Impacts of a Mass Transit Cable Car in Bogot�Colombia. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 64	6	10
65	Improving harvesting operations in an oil palm plantation. <i>Annals of Operations Research</i> , <b>2020</b> , 1	3.2	3
64	Bicycle safety in Bogot�A seven-year analysis of bicyclists collisions and fatalities. <i>Accident Analysis and Prevention</i> , <b>2020</b> , 144, 105596	6.1	12
63	Time Estimation and Hotspot Detection in the Evacuation of a Complex of Buildings: A Mesoscopic Approach and Case Study. <i>IEEE Transactions on Engineering Management</i> , <b>2020</b> , 67, 641-658	2.6	0
62	Evacuation dynamics: a modeling and visualization framework. <i>OR Spectrum</i> , <b>2020</b> , 42, 661-691	1.9	2
61	Combined maintenance and routing optimization for large-scale sewage cleaning. <i>Annals of Operations Research</i> , <b>2020</b> , 286, 441-474	3.2	11
60	Optimization model for urban air quality policy design: A case study in Latin America. <i>Computers, Environment and Urban Systems</i> , <b>2019</b> , 78, 101385	5.9	5
59	A robust DEA-centric location-based decision support system for expanding Recreov� hubs in the city of Bogot�(Colombia). <i>International Transactions in Operational Research</i> , <b>2019</b> , 26, 1157-1187	2.9	3
58	An exact method for a class of robust shortest path problems with scenarios. <i>Networks</i> , <b>2019</b> , 74, 360-373	1.3	4
57	A DEA-centric decision support system for evaluating Ciclov�-Recreativa programs in the Americas. <i>Socio-Economic Planning Sciences</i> , <b>2018</b> , 61, 90-101	3.7	6

56	Linear solution schemes for Mean-SemiVariance Project portfolio selection problems: An application in the oil and gas industry. <i>Omega</i> , <b>2017</b> , 68, 39-48	7.2	24
55	On Modeling Stochastic Travel and Service Times in Vehicle Routing. <i>Transportation Science</i> , <b>2016</b> , 50, 627-641	4.4	24
54	The Interdependent Network Design Problem for Optimal Infrastructure System Restoration. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2016</b> , 31, 334-350	8.4	131
53	An Exact Algorithm for the Elementary Shortest Path Problem with Resource Constraints. <i>Transportation Science</i> , <b>2016</b> , 50, 348-357	4.4	34
52	On the combined maintenance and routing optimization problem. <i>Reliability Engineering and System Safety</i> , <b>2016</b> , 145, 199-214	6.3	31
51	On the preventive management of sediment-related sewer blockages: a combined maintenance and routing optimization approach. <i>Water Science and Technology</i> , <b>2016</b> , 74, 302-8	2.2	16
50	Hybrid Algorithm for Route Design on Bus Rapid Transit Systems. <i>Transportation Science</i> , <b>2015</b> , 49, 66-84	4.4	21
49	An exact method for the biobjective shortest path problem for large-scale road networks. <i>European Journal of Operational Research</i> , <b>2015</b> , 242, 788-797	5.6	46
48	Solving the Orienteering Problem with Time Windows via the Pulse Framework. <i>Computers and Operations Research</i> , <b>2015</b> , 54, 168-176	4.6	13
47	On the optimal parking lot subscription policy problem: a hybrid simulation-optimization approach. <i>Annals of Operations Research</i> , <b>2014</b> , 222, 29-44	3.2	5
46	Acceleration strategies for the weight constrained shortest path problem with replenishment. <i>Optimization Letters</i> , <b>2014</b> , 8, 2155-2172	1.1	10
45	Mitigation Strategies for Lifeline Systems Based on the Interdependent Network Design Problem <b>2014</b> ,		3
44	Scheduling of parallel machines with sequence-dependent batches and product incompatibilities in an automotive glass facility. <i>Journal of Scheduling</i> , <b>2014</b> , 17, 521-540	1.6	4
43	Resource allocation for infrastructure networks within the context of disaster management <b>2014</b> , 639-646		4
42	A parallel matheuristic for the technician routing and scheduling problem. <i>Optimization Letters</i> , <b>2013</b> , 7, 1525-1535	1.1	60
41	A review of dynamic vehicle routing problems. <i>European Journal of Operational Research</i> , <b>2013</b> , 225, 1-11	5.6	661
40	An improved robust topology optimization approach using multiobjective evolutionary algorithms. <i>Computers and Structures</i> , <b>2013</b> , 125, 1-10	4.5	26
39	A matheuristic for the truck and trailer routing problem. <i>European Journal of Operational Research</i> , <b>2013</b> , 230, 231-244	5.6	79

38	On an exact method for the constrained shortest path problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 378-384	4.6	65
37	Sustainable workforce scheduling in construction program management. <i>Journal of the Operational Research Society</i> , <b>2013</b> , 64, 1169-1181	2	21
36	Computing bounds on the expected payoff of Alternative Risk Transfer products. <i>Insurance: Mathematics and Economics</i> , <b>2012</b> , 51, 271-281	1.5	4
35	Constrained network-based column generation for the multi-activity shift scheduling problem. <i>International Journal of Production Economics</i> , <b>2012</b> , 140, 466-472	9.3	21
34	An event-driven optimization framework for dynamic vehicle routing. <i>Decision Support Systems</i> , <b>2012</b> , 54, 414-423	5.6	50
33	Maximizing Labor Stability As a Sustainability Performance Indicator in Project Scheduling <b>2012</b> ,		6
32	Locating Neighborhood Parks with a Lexicographic Multiobjective Optimization Method. <i>Profiles in Operations Research</i> , <b>2012</b> , 143-171	1	5
31	Constructive Heuristics for the Multicompartment Vehicle Routing Problem with Stochastic Demands. <i>Transportation Science</i> , <b>2011</b> , 45, 346-363	4.4	30
30	A hybrid topology optimization methodology combining simulated annealing and SIMP. <i>Computers and Structures</i> , <b>2011</b> , 89, 1512-1522	4.5	26
29	A GRASP with evolutionary path relinking for the truck and trailer routing problem. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 1319-1334	4.6	76
28	An improved hybrid topology optimization approach coupling simulated annealing and SIMP (SA-SIMP). <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 10, 012183	0.4	
27	A note on branch-and-cut-and-price. <i>Operations Research Letters</i> , <b>2010</b> , 38, 346-353	1	11
26	A memetic algorithm for the multi-compartment vehicle routing problem with stochastic demands. <i>Computers and Operations Research</i> , <b>2010</b> , 37, 1886-1898	4.6	107
25	GRASP/VND and multi-start evolutionary local search for the single truck and trailer routing problem with satellite depots. <i>Engineering Applications of Artificial Intelligence</i> , <b>2010</b> , 23, 780-794	7.2	62
24	<b>2009</b> ,		3
23	Optimization Model for the Selection of Materials Using the LEED Green Building Rating System <b>2009</b> ,		4
22	An evolutionary-based decision support system for vehicle routing: The case of a public utility. <i>Decision Support Systems</i> , <b>2009</b> , 46, 730-742	5.6	47
21	Optimization model for the selection of materials using a LEED-based green building rating system in Colombia. <i>Building and Environment</i> , <b>2009</b> , 44, 1162-1170	6.5	174

20	Design of a motorcycle frame using neuroacceleration strategies in MOEAs. <i>Journal of Heuristics</i> , <b>2009</b> , 15, 177-196	1.9	10
19	Hybrid biobjective evolutionary algorithms for the design of a hospital waste management network. <i>Journal of Heuristics</i> , <b>2009</b> , 15, 153-176	1.9	41
18	Material Selection in Building Construction Using Optimal Scoring Method (OSM) <b>2009</b> ,		2
17	Generation of Pop-Rock Chord Sequences Using Genetic Algorithms and Variable Neighborhood Search. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 573-578	0.9	1
16	A multiobjective model for the selection and timing of public enterprise projects. <i>Socio-Economic Planning Sciences</i> , <b>2008</b> , 42, 31-45	3.7	43
15	Car pooling optimization: A case study in Strasbourg (France) <b>2008</b> ,		5
14	Solving the Winner Determination Problem in a Divisible-Object Auction. <i>Engineering Economist</i> , <b>2007</b> , 52, 179-194	0.8	
13	Supply chain optimization tool for purchasing decisions in B2B construction marketplaces. <i>Automation in Construction</i> , <b>2007</b> , 16, 569-575	9.6	36
12	Labeling algorithm for the shortest path problem with turn prohibitions with application to large-scale road networks. <i>Annals of Operations Research</i> , <b>2007</b> , 157, 169-182	3.2	28
11	A multiobjective evolutionary approach for linearly constrained project selection under uncertainty. <i>European Journal of Operational Research</i> , <b>2007</b> , 179, 869-894	5.6	110
10	<b>2007</b> ,		9
9	Optimizing B2B transactions using the marketplace competitive analyzer. <i>International Journal of Management Science and Engineering Management</i> , <b>2006</b> , 1, 37-46	2.8	1
8	Efficient Coverage Algorithms for Wireless Sensor Networks <b>2006</b> ,		9
7	Solution methods for the bi-objective (cost-coverage) unconstrained facility location problem with an illustrative example. <i>Annals of Operations Research</i> , <b>2006</b> , 147, 109-141	3.2	53
6	A genetic-based framework for solving (multi-criteria) weighted matching problems. <i>European Journal of Operational Research</i> , <b>2003</b> , 149, 77-101	5.6	12
5	An Evolutionary Algorithm for Project Selection Problems Based on Stochastic Multiobjective Linearly Constrained Optimization. <i>Profiles in Operations Research</i> , <b>2003</b> , 163-189	1	
4	Fuzzy controlled simulation optimization. <i>Fuzzy Sets and Systems</i> , <b>2002</b> , 127, 65-84	3.7	7
3	An efficient and flexible mechanism for constructing membership functions. <i>European Journal of Operational Research</i> , <b>2002</b> , 139, 84-95	5.6	46

2 Decision Support with Web-Enabled Software. *Interfaces*, **2001**, 31, 109-129

0.7 43

1 Smart Pooling: AI-powered COVID-19 testing

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