

# Luca D'Acerno

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

997  
citations

516215

16  
h-index

500791

28  
g-index

70  
all docs

70  
docs citations

70  
times ranked

644  
citing authors

#	ARTICLE	IF	CITATIONS
1	The transit network design problem with elastic demand and internalisation of external costs: An application to rail frequency optimisation. <i>Transportation Research Part C: Emerging Technologies</i> , 2011, 19, 1276-1305.	3.9	106
2	A multilayer model to simulate cruising for parking in urban areas. <i>Transport Policy</i> , 2011, 18, 735-744.	3.4	81
3	A meta-heuristic approach for solving the Urban Network Design Problem. <i>European Journal of Operational Research</i> , 2010, 201, 144-157.	3.5	69
4	Optimisation models for the urban parking pricing problem. <i>Transport Policy</i> , 2006, 13, 34-48.	3.4	63
5	An Ant Colony Optimisation algorithm for solving the asymmetric traffic assignment problem. <i>European Journal of Operational Research</i> , 2012, 217, 459-469.	3.5	50
6	Artificial Neural Networks for Forecasting Passenger Flows on Metro Lines. <i>Sensors</i> , 2019, 19, 3424.	2.1	44
7	Methodology for Determining Dwell Times Consistent with Passenger Flows in the Case of Metro Services. <i>Urban Rail Transit</i> , 2017, 3, 73-89.	0.9	41
8	Estimation of urban traffic conditions using an Automatic Vehicle Location (AVL) System. <i>European Journal of Operational Research</i> , 2009, 196, 719-736.	3.5	31
9	An Overview of Cooperative Driving in the European Union: Policies and Practices. <i>Electronics (Switzerland)</i> , 2019, 8, 616.	1.8	29
10	Dispatching and Rescheduling Tasks and Their Interactions with Travel Demand and the Energy Domain: Models and Algorithms. <i>Urban Rail Transit</i> , 2018, 4, 163-197.	0.9	27
11	The definition of a model framework for managing rail systems in the case of breakdowns. , 2013, , .		25
12	A Passenger-Oriented Optimization Model for Implementing Energy-Saving Strategies in Railway Contexts. <i>Energies</i> , 2018, 11, 2946.	1.6	25
13	Analysis of the interaction between travel demand and rail capacity constraints. , 2012, , .		25
14	A Multimodal Multiuser Approach for Analysing Pricing Policies in Urban Contexts. <i>Journal of Applied Sciences</i> , 2011, 11, 599-609.	0.1	23
15	Defining Reserve Times for Metro Systems: An Analytical Approach. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-15.	0.9	22
16	Estimating the benefits of energy-efficient train driving strategies: a model calibration with real data. <i>WIT Transactions on the Built Environment</i> , 2013, , .	0.0	22
17	A multimodal approach to bus frequency design. <i>WIT Transactions on the Built Environment</i> , 2011, , .	0.0	21
18	A simulation framework for supporting design and real-time decisional phases in railway systems. , 2011, , .		16

#	ARTICLE	IF	CITATIONS
19	The use of microsimulation models for the planning and management of metro systems. WIT Transactions on the Built Environment, 2014, , .	0.0	15
20	A stochastic approach for assessing intervention strategies in the case of metro system failures. , 2015, , .		14
21	A Meta-heuristic Algorithm for Solving the Road Network Design Problem in Regional Contexts. Procedia, Social and Behavioral Sciences, 2012, 54, 84-95.	0.5	13
22	A simulation-based approach for evaluating train operating costs under different signalling systems. WIT Transactions on the Built Environment, 2013, , .	0.0	12
23	An Integrated Approach for Availability and QoS Evaluation in Railway Systems. Lecture Notes in Computer Science, 2011, , 171-184.	1.0	11
24	Ant Colony Optimisation approaches for the transportation assignment problem. WIT Transactions on the Built Environment, 2010, , .	0.0	11
25	Defining economic and environmental feasibility thresholds in the case of rail signalling systems based on satellite technology. , 2016, , .		10
26	A neighbourhood search algorithm for determining optimal intervention strategies in the case of metro system failures. International Journal of Transport Development and Integration, 2017, 1, 63-73.	0.6	10
27	Replanning public transport services in the case of budget reductions. WIT Transactions on the Built Environment, 2014, , .	0.0	10
28	Passengers' Satisfaction in the Case of Energy-Saving Strategies: A Rail System Application. , 2018, , .		9
29	Assumptions and simulation of passenger behaviour on rail platforms. International Journal of Transport Development and Integration, 2017, 2, 123-135.	0.6	9
30	A simulation-based approach for estimating railway capacity. International Journal of Transport Development and Integration, 2019, 3, 232-244.	0.6	9
31	A Simulation Approach for Optimising Energy-Efficient Driving Speed Profiles in Metro Lines. Energies, 2020, 13, 6038.	1.6	8
32	Comparing Algorithms for Solving the Local Optimisation of the Signal Settings (LOSS) Problem under Different Supply and Demand Configurations. Procedia, Social and Behavioral Sciences, 2013, 87, 147-162.	0.5	7
33	Benefits of a Combined Micro-macro Approach for Managing Rail Systems in Case of Disruptions. Transportation Research Procedia, 2014, 3, 195-204.	0.8	7
34	An analytical approach for determining reserve times on metro systems. , 2017, , .		7
35	Impact of Railway Energy Efficiency on the Primary Distribution Power Grid. IEEE Transactions on Vehicular Technology, 2020, 69, 14131-14140.	3.9	7
36	A long-term analysis of passenger flows on a regional rail line. International Journal of Transport Development and Integration, 2017, 1, 329-338.	0.6	7

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37	Evaluation of Travel Demand Impacts in the Case of Rail System Failure. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 87, 75-84.	0.5	6
38	A Methodology for Assessing the Feasibility of Fleet Compositions with Dynamic Demand. <i>Transportation Research Procedia</i> , 2015, 10, 595-604.	0.8	6
39	A Rational Decision-Making Process with Public Engagement for Designing Public Transport Services: A Real Case Application in Italy. <i>Sustainability</i> , 2020, 12, 6303.	1.6	6
40	Application of Metaheuristics to Large-Scale Transportation Problems. <i>Lecture Notes in Computer Science</i> , 2014, , 215-222.	1.0	6
41	An analytical methodology for extending passenger counts in a metro system. <i>International Journal of Transport Development and Integration</i> , 2017, 1, 589-600.	0.6	6
42	A Fixed-point Model and Solution Algorithms for Simulating Urban Freight Distribution in a Multimodal Context. <i>Journal of Applied Sciences</i> , 2011, 11, 647-654.	0.1	6
43	Adoption of Micro-Mobility Solutions for Improving Environmental Sustainability: Comparison among Transportation Systems in Urban Contexts. <i>Sustainability</i> , 2022, 14, 7960.	1.6	5
44	Effects of Urban Metro Energy-Saving Strategy on the Distribution Electrical Power System. , 2019, , .		4
45	Railway System Design by Adopting the Merry-Go-Round (MGR) Paradigm. <i>Sustainability</i> , 2021, 13, 2033.	1.6	4
46	Effects of Rolling Stock Unavailability on the Implementation of Energy-Saving Policies: A Metro System Application. <i>Lecture Notes in Computer Science</i> , 2019, , 120-132.	1.0	3
47	Optimising Frequency-Based Railway Services with a Limited Fleet Endowment: An Energy-Efficient Perspective. <i>Energies</i> , 2020, 13, 2403.	1.6	3
48	An Innovative Methodology for Managing Service Disruptions on Regional Rail Lines. , 0, , .		3
49	Managing disruptions and disturbances on railway services : A real-scale case study. <i>International Journal of Transport Development and Integration</i> , 2017, 1, 695-710.	0.6	3
50	Effects of Travel Demand Levels on Optimal Strategies for Metro System Management in Failure Contexts. <i>Procedia, Social and Behavioral Sciences</i> , 2014, 111, 819-828.	0.5	2
51	The Implementation of Energy-Saving Strategies in the Case of Limitation in Rolling Stock Availability. , 2019, , .		2
52	The Definition of Bus Fleet Operational Parameters: The Dwell Time Estimation. , 2020, , .		2
53	A Methodology for Increasing Convergence Speed of Traffic Assignment Algorithms Based on the Use of a Generalised Averaging Function. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5698.	1.3	2
54	Minimisation of total delay in two-way coordinated arterials. , 2013, , .		2

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55	A Geometrical Approach to Reduce Calculation Times in the Definition of Rail Convoy Speed Profiles. WSEAS Transactions on Environment and Development, 2020, 16, 98-104.	0.3	2
56	The Use of Road Microsimulation Software within BIM Environments: A Preliminary Assessment. Journal of Advanced Transportation, 2021, 2021, 1-11.	0.9	1
57	An Origin-Destination Based Parking Pricing Policy for Improving Equity in Urban Transportation. AIRO Springer Series, 2018, , 247-255.	0.4	1
58	A fixed-point model and algorithms for simulating urban freight distribution in a multimodal context with crossed congestion. , 2008, , .		1
59	Optimisation of transit fares: a multimodal approach based on system and external costs. WIT Transactions on the Built Environment, 2010, , .	0.0	1
60	Monitoring of the Operating Parameters of Railway Systems through the Use of Smartphone Detection Technologies. , 2021, , .		1
61	Optimal Motion of a Rolling Stock Fleet Under Traction Power System Constraints. IEEE Transactions on Transportation Electrification, 2023, 9, 1554-1563.	5.3	1
62	Erratum to "The transit network design problem with elastic demand and internalisation of external costs: An application to rail frequency optimization" [Transportation Research Part C 19 (6) (2011) 1276-1305]. Transportation Research Part C: Emerging Technologies, 2012, 20, 15.	3.9	0
63	The Optimisation of Driving Speed Profiles for Minimising Energy Consumptions in Metro Lines. , 2020, , .		0
64	A theoretical multimodal assignment model for simulating intermodal trips. , 2011, , .		0
65	Infrastructure Access Policies to Promote Sustainable Driving Behaviours in Railway Contexts. Advances in Intelligent Systems and Computing, 2020, , 1352-1361.	0.5	0
66	Assessment of Rail Service Capacity Under the Current Regulations Aimed at Ensuring Social Distancing Conditions Against the COVID-19 Pandemic. Lecture Notes in Networks and Systems, 2022, , 637-646.	0.5	0
67	Performance Improvements of Traction Power Systems by Coordinating the Motion of a Fleet of Metro Trains in terms of Layover Time. , 2021, , .		0