

David Rey

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

58
papers

675
citations

15
h-index

23
g-index

65
ext. papers

869
ext. citations

4.3
avg, IF

4.87
L-index

#	Paper	IF	Citations
58	A chance-constrained dial-a-ride problem with utility-maximising demand and multiple pricing structures. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2022 , 158, 102601	9	0
57	Locating park-and-ride facilities for resilient on-demand urban mobility. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2022 , 158, 102557	9	2
56	Disjunctive linear separation conditions and mixed-integer formulations for aircraft conflict resolution. <i>European Journal of Operational Research</i> , 2022 , 296, 520-538	5.6	1
55	Freeway network design with exclusive lanes for automated vehicles under endogenous mobility demand. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 133, 103440	8.4	1
54	Incentives for Ridesharing: A Case Study of Welfare and Traffic Congestion. <i>Journal of Advanced Transportation</i> , 2021 , 2021, 1-15	1.9	2
53	Detection of anomalous vehicles using physics of traffic. <i>Vehicular Communications</i> , 2021 , 27, 100304	5.7	2
52	Online incentive-compatible mechanisms for traffic intersection auctions. <i>European Journal of Operational Research</i> , 2021 , 293, 229-247	5.6	7
51	Optimizing Location of New Public Schools in Town Planning Considering Supply and Demand. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2021 , 147, 04021057	2.2	
50	Model formulation and calibration procedure for integrated multi-modal activity routing and network assignment models. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 121, 102853	8.4	3
49	Computational benchmarking of exact methods for the bilevel discrete network design problem. <i>Transportation Research Procedia</i> , 2020 , 47, 11-18	2.4	1
48	Stability-based analysis of autonomous intersection management with pedestrians. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 114, 463-483	8.4	12
47	Determining the Market Uptake of Demand Responsive Transport Enabled Public Transport Service. <i>Sustainability</i> , 2020 , 12, 4914	3.6	3
46	Dial-a-Ride Problem with Users' Accept/Reject Decisions Based on Service Utilities. <i>Transportation Research Record</i> , 2020 , 2674, 55-67	1.7	2
45	Mathematical optimization in enhancing the sustainability of aircraft trajectory: A review. <i>International Journal of Sustainable Transportation</i> , 2020 , 14, 413-436	3.6	9
44	Long-term scheduling for road network disaster recovery. <i>International Journal of Disaster Risk Reduction</i> , 2020 , 42, 101353	4.5	6
43	A Branch-and-Price Algorithm for the Bilevel Network Maintenance Scheduling Problem. <i>Transportation Science</i> , 2019 , 53, 1455-1478	4.4	4
42	Range-Constrained Traffic Assignment with Multi-Modal Recharge for Electric Vehicles. <i>Networks and Spatial Economics</i> , 2019 , 19, 633-668	1.9	8

41	Optimization of Job Allocation in Construction Organizations to Maximize Workers' Career Development Opportunities. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019036	4.2	9
40	A decision-support framework to optimize border control for global outbreak mitigation. <i>Scientific Reports</i> , 2019 , 9, 2216	4.9	32
39	An Integrated Supply-Demand Approach to Solving Optimal Relocations in Station-Based Carsharing Systems. <i>Networks and Spatial Economics</i> , 2019 , 19, 611-632	1.9	13
38	An integrated approach for optimizing left-turn forbiddance decisions at multiple intersections. <i>Transportmetrica B</i> , 2019 , 7, 1481-1504	1.8	5
37	Blue phase: Optimal network traffic control for legacy and autonomous vehicles. <i>Transportation Research Part B: Methodological</i> , 2019 , 130, 105-129	7.2	24
36	Max-pressure control of dynamic lane reversal and autonomous intersection management. <i>Transportmetrica B</i> , 2019 , 7, 1693-1718	1.8	6
35	Integrating uncertainty considerations into multi-objective transportation network design projects accounting for environment disruption. <i>Transportation Letters</i> , 2019 , 11, 351-361	2.1	6
34	Exact and heuristic algorithms for finding envy-free allocations in food rescue pickup and delivery logistics. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2018 , 112, 19-46	9	15
33	A Bi-level Mixed Integer Programming Model to Solve the Multi-Servicing Facility Location Problem, Minimising Negative Impacts Due to an Existing Semi-Obnoxious Facility. <i>Lecture Notes in Management and Industrial Engineering</i> , 2018 , 381-395	0.3	2
32	Link Transmission Model-Based Linear Programming Formulation for Network Design. <i>Transportation Research Record</i> , 2018 , 2672, 139-147	1.7	3
31	Optimization of concrete placing operation based on competing carbon footprint, cost and production rate objectives. <i>Engineering, Construction and Architectural Management</i> , 2018 , 25, 938-957	3.1	2
30	Multitype Recharge Facility Location for Electric Vehicles. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2018 , 33, 943-965	8.4	17
29	Accounting for Embodied Carbon Emissions in Planning and Optimisation of Transport Activities During Construction 2018 , 301-321		
28	An axiomatic characterization of fairness in transport networks: Application to road pricing and spatial equity. <i>Transport Policy</i> , 2018 , 68, 142-157	5.7	3
27	Maximizing the number of conflict-free aircraft using mixed-integer nonlinear programming. <i>Computers and Operations Research</i> , 2017 , 80, 147-158	4.6	15
26	A cutting plane algorithm for the site layout planning problem with travel barriers. <i>Computers and Operations Research</i> , 2017 , 82, 36-51	4.6	15
25	Sustainable urban facility location: Minimising noise pollution and network congestion. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017 , 107, 38-59	9	26
24	Novel dynamic formulations for real-time ride-sharing systems. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017 , 108, 122-140	9	57

23	Conflict-point formulation of intersection control for autonomous vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , 2017 , 85, 528-547	8.4	68
22	Fair allocation and cost-effective routing models for food rescue and redistribution. <i>IIEE Transactions</i> , 2017 , 49, 1172-1188	3.3	13
21	Bilevel Mixed-Integer Linear Programming Model for Solving the Single Airport Location Problem. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 06017001	5	7
20	Multiscale Network Model for Evaluating Global Outbreak Control Strategies. <i>Transportation Research Record</i> , 2017 , 2626, 42-50	1.7	3
19	Complex number formulation and convex relaxations for aircraft conflict resolution 2017 ,		2
18	Finding Outbreak Trees in Networks with Limited Information. <i>Networks and Spatial Economics</i> , 2016 , 16, 687-721	1.9	6
17	An endogenous lottery-based incentive mechanism to promote off-peak usage in congested transit systems. <i>Transport Policy</i> , 2016 , 46, 46-55	5.7	25
16	A Computational Method for Estimating Travel Frequencies in Site Layout Planning. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04015102	4.2	16
15	Bilevel Optimization Model for the Development of Real-Time Strategies to Minimize Epidemic Spreading Risk in Air Traffic Networks. <i>Transportation Research Record</i> , 2016 , 2569, 62-69	1.7	8
14	A multi-objective mixed integer nonlinear programming model for construction site layout planning to minimise noise pollution and transport costs. <i>Automation in Construction</i> , 2016 , 61, 73-85	9.6	77
13	Accounting for Noise Pollution in Planning of Smart Cities. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2016 , 149-196	0.4	5
12	Subliminal Speed Control in Air Traffic Management: Optimization and Simulation. <i>Transportation Science</i> , 2016 , 50, 240-262	4.4	27
11	Dynamic Optimal Vehicle Relocation in Carshare Systems. <i>Transportation Research Record</i> , 2016 , 2567, 1-9	1.7	8
10	Food Rescue and Delivery: Heuristic Algorithm for Periodic Unpaired Pickup and Delivery Vehicle Routing Problem. <i>Transportation Research Record</i> , 2016 , 2548, 81-89	1.7	11
9	A Clustering Algorithm for Bi-Criteria Stop Location Design with Elastic Demand. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016 , 31, 117-131	8.4	7
8	Using Lagrangian Relaxation to Solve Ready Mixed Concrete Dispatching Problems. <i>Transportation Research Record</i> , 2015 , 2498, 84-90	1.7	4
7	Equity-Oriented Aircraft Collision Avoidance Model. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 172-183	6.1	16
6	A Comparison of Mixed Integer Programming Models for the Construction Site Layout Problem 2015 ,		2

5	Transit Route Design Solved with Wireless Data Collection Algorithms. <i>Transportation Research Record</i> , 2014 , 2466, 42-51	1.7	1
4	An algorithmic framework for the scheduling of construction projects based on ant colony optimization and expert knowledge 2014 ,		2
3	A scenario-based evaluation of the Middle East respiratory syndrome coronavirus and the Hajj. <i>Risk Analysis</i> , 2014 , 34, 1391-400	3.9	17
2	Distributed and Centralized Approaches for Cooperative Road Traffic Dynamics. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 48, 3198-3208		9
1	Minimization of Potential Air Conflicts through Speed Regulation. <i>Transportation Research Record</i> , 2012 , 2300, 59-67	1.7	25