David Rey

List of Publications by Citations

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 multi-objective mixed integer nonlinear programming model for construction site layout planning to minimise noise pollution and transport costs. *Automation in Construction*, **2016**, 61, 73-85	9.6	77
57	Conflict-point formulation of intersection control for autonomous vehicles. *Transportation Research Part C: Emerging Technologies*, **2017**, 85, 528-547	8.4	68
56	Novel dynamic formulations for real-time ride-sharing systems. *Transportation Research, Part E: Logistics and Transportation Review*, **2017**, 108, 122-140	9	57
55	A decision-support framework to optimize border control for global outbreak mitigation. *Scientific Reports*, **2019**, 9, 2216	4.9	32
54	Subliminal Speed Control in Air Traffic Management: Optimization and Simulation. *Transportation Science*, **2016**, 50, 240-262	4.4	27
53	Sustainable urban facility location: Minimising noise pollution and network congestion. *Transportation Research, Part E: Logistics and Transportation Review*, **2017**, 107, 38-59	9	26
52	An endogenous lottery-based incentive mechanism to promote off-peak usage in congested transit systems. *Transport Policy*, **2016**, 46, 46-55	5.7	25
51	Minimization of Potential Air Conflicts through Speed Regulation. *Transportation Research Record*, **2012**, 2300, 59-67	1.7	25
50	Blue phase: Optimal network traffic control for legacy and autonomous vehicles. *Transportation Research Part B: Methodological*, **2019**, 130, 105-129	7.2	24
49	Multitype Recharge Facility Location for Electric Vehicles. *Computer-Aided Civil and Infrastructure Engineering*, **2018**, 33, 943-965	8.4	17
48	A scenario-based evaluation of the Middle East respiratory syndrome coronavirus and the Hajj. *Risk Analysis*, **2014**, 34, 1391-400	3.9	17
47	A Computational Method for Estimating Travel Frequencies in Site Layout Planning. *Journal of Construction Engineering and Management - ASCE*, **2016**, 142, 04015102	4.2	16
46	Equity-Oriented Aircraft Collision Avoidance Model. *IEEE Transactions on Intelligent Transportation Systems*, **2015**, 16, 172-183	6.1	16
45	Maximizing the number of conflict-free aircraft using mixed-integer nonlinear programming. *Computers and Operations Research*, **2017**, 80, 147-158	4.6	15
44	A cutting plane algorithm for the site layout planning problem with travel barriers. *Computers and Operations Research*, **2017**, 82, 36-51	4.6	15
43	Exact and heuristic algorithms for finding envy-free allocations in food rescue pickup and delivery logistics. *Transportation Research, Part E: Logistics and Transportation Review*, **2018**, 112, 19-46	9	15
42	An Integrated Supply-Demand Approach to Solving Optimal Relocations in Station-Based Carsharing Systems. *Networks and Spatial Economics*, **2019**, 19, 611-632	1.9	13

41	Fair allocation and cost-effective routing models for food rescue and redistribution. *IISE Transactions*, **2017**, 49, 1172-1188	3.3	13
40	Stability-based analysis of autonomous intersection management with pedestrians. *Transportation Research Part C: Emerging Technologies*, **2020**, 114, 463-483	8.4	12
39	Food Rescue and Delivery: Heuristic Algorithm for Periodic Unpaired Pickup and Delivery Vehicle Routing Problem. *Transportation Research Record*, **2016**, 2548, 81-89	1.7	11
38	Optimization of Job Allocation in Construction Organizations to Maximize Workers⬛Career Development Opportunities. *Journal of Construction Engineering and Management - ASCE*, **2019**, 145, 04019036	4.2	9
37	Distributed and Centralized Approaches for Cooperative Road Traffic Dynamics. *Procedia, Social and Behavioral Sciences*, **2012**, 48, 3198-3208		9
36	Mathematical optimization in enhancing the sustainability of aircraft trajectory: A review. *International Journal of Sustainable Transportation*, **2020**, 14, 413-436	3.6	9
35	Range-Constrained Traffic Assignment with Multi-Modal Recharge for Electric Vehicles. *Networks and Spatial Economics*, **2019**, 19, 633-668	1.9	8
34	Bilevel Optimization Model for the Development of Real-Time Strategies to Minimize Epidemic Spreading Risk in Air Traffic Networks. *Transportation Research Record*, **2016**, 2569, 62-69	1.7	8
33	Dynamic Optimal Vehicle Relocation in Carshare Systems. *Transportation Research Record*, **2016**, 2567, 1-9	1.7	8
32	Bilevel Mixed-Integer Linear Programming Model for Solving the Single Airport Location Problem. *Journal of Computing in Civil Engineering*, **2017**, 31, 06017001	5	7
31	A Clustering Algorithm for Bi-Criteria Stop Location Design with Elastic Demand. *Computer-Aided Civil and Infrastructure Engineering*, **2016**, 31, 117-131	8.4	7
30	Online incentive-compatible mechanisms for traffic intersection auctions. *European Journal of Operational Research*, **2021**, 293, 229-247	5.6	7
29	Finding Outbreak Trees in Networks with Limited Information. *Networks and Spatial Economics*, **2016**, 16, 687-721	1.9	6
28	Max-pressure control of dynamic lane reversal and autonomous intersection management. *Transportmetrica B*, **2019**, 7, 1693-1718	1.8	6
27	Integrating uncertainty considerations into multi-objective transportation network design projects accounting for environment disruption. *Transportation Letters*, **2019**, 11, 351-361	2.1	6
26	Long-term scheduling for road network disaster recovery. *International Journal of Disaster Risk Reduction*, **2020**, 42, 101353	4.5	6
25	An integrated approach for optimizing left-turn forbiddance decisions at multiple intersections. *Transportmetrica B*, **2019**, 7, 1481-1504	1.8	5
24	Accounting for Noise Pollution in Planning of Smart Cities. *Advances in Environmental Engineering and Green Technologies Book Series*, **2016**, 149-196	0.4	5

#	Reference	Impact	Cites
23	A Branch-and-Price Algorithm for the Bilevel Network Maintenance Scheduling Problem. *Transportation Science*, **2019**, 53, 1455-1478	4.4	4
22	Using Lagrangian Relaxation to Solve Ready Mixed Concrete Dispatching Problems. *Transportation Research Record*, **2015**, 2498, 84-90	1.7	4
21	Model formulation and calibration procedure for integrated multi-modal activity routing and network assignment models. *Transportation Research Part C: Emerging Technologies*, **2020**, 121, 102853	8.4	3
20	Determining the Market Uptake of Demand Responsive Transport Enabled Public Transport Service. *Sustainability*, **2020**, 12, 4914	3.6	3
19	Link Transmission Model-Based Linear Programming Formulation for Network Design. *Transportation Research Record*, **2018**, 2672, 139-147	1.7	3
18	Multiscale Network Model for Evaluating Global Outbreak Control Strategies. *Transportation Research Record*, **2017**, 2626, 42-50	1.7	3
17	An axiomatic characterization of fairness in transport networks: Application to road pricing and spatial equity. *Transport Policy*, **2018**, 68, 142-157	5.7	3
16	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. *Lecture Notes in Management and Industrial Engineering*, **2018**, 381-395	0.3	2
15	Optimization of concrete placing operation based on competing carbon footprint, cost and production rate objectives. *Engineering, Construction and Architectural Management*, **2018**, 25, 938-957	3.1	2
14	Complex number formulation and convex relaxations for aircraft conflict resolution **2017**,		2
13	An algorithmic framework for the scheduling of construction projects based on ant colony optimization and expert knowledge **2014**,		2
12	Locating park-and-ride facilities for resilient on-demand urban mobility. *Transportation Research, Part E: Logistics and Transportation Review*, **2022**, 158, 102557	9	2
11	A Comparison of Mixed Integer Programming Models for the Construction Site Layout Problem **2015**,		2
10	Dial-a-Ride Problem with Users Accept/Reject Decisions Based on Service Utilities. *Transportation Research Record*, **2020**, 2674, 55-67	1.7	2
9	Incentives for Ridesharing: A Case Study of Welfare and Traffic Congestion. *Journal of Advanced Transportation*, **2021**, 2021, 1-15	1.9	2
8	Detection of anomalous vehicles using physics of traffic. *Vehicular Communications*, **2021**, 27, 100304	5.7	2
7	Computational benchmarking of exact methods for the bilevel discrete network design problem. *Transportation Research Procedia*, **2020**, 47, 11-18	2.4	1
6	Transit Route Design Solved with Wireless Data Collection Algorithms. *Transportation Research Record*, **2014**, 2466, 42-51	1.7	1

List of Publications

5	Freeway network design with exclusive lanes for automated vehicles under endogenous mobility demand. *Transportation Research Part C: Emerging Technologies*, **2021**, 133, 103440	8.4	1
4	Disjunctive linear separation conditions and mixed-integer formulations for aircraft conflict resolution. *European Journal of Operational Research*, **2022**, 296, 520-538	5.6	1
3	A chance-constrained dial-a-ride problem with utility-maximising demand and multiple pricing structures. *Transportation Research, Part E: Logistics and Transportation Review*, **2022**, 158, 102601	9	0
2	Accounting for Embodied Carbon Emissions in Planning and Optimisation of Transport Activities During Construction **2018**, 301-321		
1	Optimizing Location of New Public Schools in Town Planning Considering Supply and Demand. *Journal of the Urban Planning and Development Division, ASCE*, **2021**, 147, 04021057	2.2	