Malachy Carey

List of Publications by Year
in descending order

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		236833	223716
59	2,246	25	46
papers	citations	h-index	g-index

62	62	62	939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Time-Varying Flows on Congested Networks. Operations Research, 1987, 35, 58-69.	1.2	214
2	A Model, Algorithms and Strategy for Train Pathing. Journal of the Operational Research Society, 1995, 46, 988-1005.	2.1	155
3	Scheduling trains on a network of busy complex stations. Transportation Research Part B: Methodological, 2007, 41, 159-178.	2.8	142
4	A model and strategy for train pathing with choice of lines, platforms, and routes. Transportation Research Part B: Methodological, 1994, 28, 333-353.	2.8	122
5	Nonconvexity of the dynamic traffic assignment problem. Transportation Research Part B: Methodological, 1992, 26, 127-133.	2.8	121
6	A Constraint Qualification for a Dynamic Traffic Assignment Model. Transportation Science, 1986, 20, 55-58.	2.6	87
7	Ex ante heuristic measures of schedule reliability. Transportation Research Part B: Methodological, 1999, 33, 473-494.	2.8	83
8	Stochastic approximation to the effects of headways on knock-on delays of trains. Transportation Research Part B: Methodological, 1994, 28, 251-267.	2.8	82
9	An approach to modelling time-varying flows on congested networks. Transportation Research Part B: Methodological, 2000, 34, 157-183.	2.8	81
10	Extending a train pathing model from one-way to two-way track. Transportation Research Part B: Methodological, 1994, 28, 395-400.	2.8	75
11	Scheduling and platforming trains at busy complex stations. Transportation Research, Part A: Policy and Practice, 2003, 37, 195-224.	2.0	71
12	Externalities, Average and Marginal Costs, and Tolls on Congested Networks with Time-Varying Flows. Operations Research, 1993, 41, 217-231.	1.2	64
13	The existence, uniqueness and computation of an arc-based dynamic network user equilibrium formulation. Transportation Research Part B: Methodological, 2002, 36, 897-918.	2.8	64
14	Route swapping in dynamic traffic networks. Transportation Research Part B: Methodological, 2011, 45, 102-111.	2.8	60
15	A Method for Direct Estimation of Origin/Destination Trip Matrices. Transportation Science, 1981, 15, 32-49.	2.6	53
16	A Whole-Link Travel-Time Model with Desirable Properties. Transportation Science, 2003, 37, 83-96.	2.6	53
17	Behaviour of a whole-link travel time model used in dynamic traffic assignment. Transportation Research Part B: Methodological, 2002, 36, 83-95.	2.8	52
18	Optimizing scheduled times, allowing for behavioural response. Transportation Research Part B: Methodological, 1998, 32, 329-342.	2.8	44

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19	Bounds on expected performance of networks with links subject to failure. Networks, 1984, 14, 439-456.	1.6	42
20	Reliability of interconnected scheduled services. European Journal of Operational Research, 1994, 79, 51-72.	3.5	36
21	Dynamic traffic assignment approximating the kinematic wave model: System optimum, marginal costs, externalities and tolls. Transportation Research Part B: Methodological, 2012, 46, 634-648.	2.8	34
22	Comparison of Methods for Path Flow Reassignment for Dynamic User Equilibrium. Networks and Spatial Economics, 2012, 12, 337-376.	0.7	33
23	Extending the Cell Transmission Model to Multiple Lanes and Lane-Changing. Networks and Spatial Economics, 2015, 15, 507-535.	0.7	33
24	Properties of expected costs and performance measures in stochastic models of scheduled transport. European Journal of Operational Research, 1995, 83, 182-199.	3.5	31
25	Comparing whole-link travel time models. Transportation Research Part B: Methodological, 2003, 37, 905-926.	2.8	28
26	A Review of Properties of Flowâ€“Density Functions. Transport Reviews, 2012, 32, 49-73.	4.7	25
27	On the Convergence of the Method of Successive Averages for Calculating Equilibrium in Traffic Networks. Transportation Science, 2015, 49, 535-542.	2.6	25
28	Constrained Estimation of Direct Demand Functions and Trip Matrices. Transportation Science, 1986, 20, 143-152.	2.6	24
29	Link Travel Times I: Desirable Properties. Networks and Spatial Economics, 2004, 4, 257-268.	0.7	23
30	Extending travel-time based models for dynamic network loading and assignment, to achieve adherence to first-in-first-out and link capacities. Transportation Research Part B: Methodological, 2014, 65, 90-104.	2.8	23
31	An exit-flow model used in dynamic traffic assignment. Computers and Operations Research, 2004, 31, 1583-1602.	2.4	22
32	Convergence of a Discretised Travel-Time Model. Transportation Science, 2005, 39, 25-38.	2.6	22
33	Dynamic Traffic Assignment with More Flexible Modelling within Links. Networks and Spatial Economics, 2001, 1, 349-375.	0.7	20
34	Implementing first-inâ€“first-out in the cell transmission model for networks. Transportation Research Part B: Methodological, 2014, 65, 105-118.	2.8	20
35	A Model, Algorithms and Strategy for Train Pathing. Journal of the Operational Research Society, 1995, 46, 988-1005.	2.1	18
36	Congested network flows: Time-varying demands and start-time policies. European Journal of Operational Research, 1988, 36, 227-240.	3.5	17

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37	Link Travel Times II: Properties Derived from Traffic-Flow Models. Networks and Spatial Economics, 2004, 4, 379-402.	0.7	17
38	Integrability and Mathematical Programming Models: A Survey and a Parametric Approach. Econometrica, 1977, 45, 1957.	2.6	15
39	STABILITY OF COMPETITIVE REGIONAL TRADE WITH MONOTONE DEMAND/SUPPLY FUNCTIONS*. Journal of Regional Science, 1980, 20, 489-496.	2.1	15
40	Extending and solving a multiperiod congested network flow model. Computers and Operations Research, 1990, 17, 495-507.	2.4	13
41	The dual of the traffic assignment problem with elastic demands. Transportation Research Part B: Methodological, 1985, 19, 227-237.	2.8	12
42	Efficient Discretisation for Link Travel Time Models. Networks and Spatial Economics, 2004, 4, 269-290.	0.7	11
43	Alternative Conditions for a Well-Behaved Travel Time Model. Transportation Science, 2005, 39, 417-428.	2.6	11
44	Retaining desirable properties in discretising a travel-time model. Transportation Research Part B: Methodological, 2007, 41, 540-553.	2.8	9
45	Optimal consolidation of municipalities: An analysis of alternative designs. Socio-Economic Planning Sciences, 1996, 30, 103-119.	2.5	7
46	Solving a class of network models for dynamic flow control. European Journal of Operational Research, 1994, 75, 151-170.	3.5	6
47	Pseudo-periodicity in a travel-time model used in dynamic traffic assignment. Transportation Research Part B: Methodological, 2003, 37, 769-792.	2.8	6
48	A Model, Algorithms and Strategy for Train Pathing. Journal of the Operational Research Society, 1995, 46, 988.	2.1	4
49	Representation requirements for perfect first-in-first-out verification in continuous flow dynamic models. Transportation Research Part B: Methodological, 2017, 100, 284-301.	2.8	4
50	The cell transmission model with free-flow speeds varying over time or space. Transportation Research Part B: Methodological, 2021, 147, 245-257.	2.8	4
51	Network equilibrium: Optimization formulations with both quantities and prices as variables. Transportation Research Part B: Methodological, 1987, 21, 69-77.	2.8	3
52	Swapping the order of scheduled services to minimize expected costs of delays. Transportation Research Part B: Methodological, 1994, 28, 409-428.	2.8	3
53	OPTIMAL ALLOCATION AND PRICING WHEN CONSUMER BEHAVIOUR IS SUBOPTIMAL. Metroeconomica, 1978, 30, 55-71.	0.5	0
54	On Mutually Exclusive and Collectively Exhaustive Properties of Demand Functions. Economica, 1981, 48, 407.	0.9	0

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55	Intertemporal benefit functions. Economics Letters, 1987, 23, 9-14.	0.9	0
56	Estimating nonparametric convex functions using gradient data. European Journal of Operational Research, 1989, 41, 73-85.	3.5	0
57	Travel-Time Models With and Without Homogeneity Over Time. Transportation Science, 2017, 51, 882-892.	2.6	0
58	Consistency and Inconsistency Between the Fundamental Relationships on Which Different Traffic Assignment Models Are Based. Transportation Science, 2018, 52, 1548-1569.	2.6	0
59	Constructing a cell transmission model solution adhering fully to first-in-first-out conditions. Transportation Research Part B: Methodological, 2022, 161, 247-267.	2.8	0