List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Modeling impacts of adverse weather conditions on a road network with uncertainties in demand and supply. Transportation Research Part B: Methodological, 2008, 42, 890-910.	2.8	231
2	Stochastic cell transmission model (SCTM): A stochastic dynamic traffic model for traffic state surveillance and assignment. Transportation Research Part B: Methodological, 2011, 45, 507-533.	2.8	188
3	Global optimization method for mixed transportation network design problem: A mixed-integer linear programming approach. Transportation Research Part B: Methodological, 2011, 45, 808-827.	2.8	173
4	Smarter and more connected: Future intelligent transportation system. IATSS Research, 2018, 42, 67-71.	1.8	169
5	A Genetic Algorithm Approach for Optimizing Traffic Control Signals Considering Routing. Computer-Aided Civil and Infrastructure Engineering, 2007, 22, 31-43.	6.3	145
6	A network equilibrium model with travellers' perception of stochastic travel times. Transportation Research Part B: Methodological, 2009, 43, 614-624.	2.8	124
7	Finding Reliable Shortest Paths in Road Networks Under Uncertainty. Networks and Spatial Economics, 2013, 13, 123-148.	0.7	118
8	A Sustainable Road Network Design Problem with Land Use Transportation Interaction over Time. Networks and Spatial Economics, 2015, 15, 791-822.	0.7	109
9	Schedule-based transit assignment model with vehicle capacity and seat availability. Transportation Research Part B: Methodological, 2011, 45, 1805-1830.	2.8	99
10	Reliable shortest path finding in stochastic networks with spatial correlated link travel times. International Journal of Geographical Information Science, 2012, 26, 365-386.	2.2	99
11	Short-Term Traffic State Prediction Based on Temporal–Spatial Correlation. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1242-1254.	4.7	99
12	A Genetic Algorithm Based Approach to Optimal Toll Level and Location Problems. Networks and Spatial Economics, 2004, 4, 161-179.	0.7	88
13	Dynamic stochastic transit assignment with explicit seat allocation model. Transportation Research Part B: Methodological, 2009, 43, 895-912.	2.8	87
14	Reliable Shortest Path Problems in Stochastic Time-Dependent Networks. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2014, 18, 177-189.	2.6	85
15	Vulnerability analysis for large-scale and congested road networks with demand uncertainty. Transportation Research, Part A: Policy and Practice, 2012, 46, 501-516.	2.0	84
16	Environmentally Sustainable Toll Design for Congested Road Networks with Uncertain Demand. International Journal of Sustainable Transportation, 2012, 6, 127-155.	2.1	83
17	A Cell-Based Model for Multi-class Doubly Stochastic Dynamic Traffic Assignment. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 595-611.	6.3	82
18	Stochastic multi-modal transport network under demand uncertainties and adverse weather condition. Transportation Research Part C: Emerging Technologies, 2011, 19, 338-350.	3.9	82

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19	Design of a rail transit line for profit maximization in a linear transportation corridor. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 50-70.	3.7	80
20	The impact of cordon design on the performance of road pricing schemes. Transport Policy, 2002, 9, 209-220.	3.4	75
21	Optimal Road User Charging Cordon Design: A Heuristic Optimization Approach. Computer-Aided Civil and Infrastructure Engineering, 2004, 19, 377-392.	6.3	75
22	Network Capacity Reliability Analysis Considering Traffic Regulation after a Major Disaster. Networks and Spatial Economics, 2006, 6, 205-219.	0.7	73
23	Large-scale road network vulnerability analysis: a sensitivity analysis based approach. Transportation, 2011, 38, 799-817.	2.1	71
24	Reliable Network Design Problem: Case with Uncertain Demand and Total Travel Time Reliability. , 0, .		71
25	An activity-based approach for scheduling multimodal transit services. Transportation, 2010, 37, 751-774.	2.1	69
26	Robust Wardrop's user equilibrium assignment under stochastic demand and supply: Expected residual minimization approach. Transportation Research Part B: Methodological, 2011, 45, 534-552.	2.8	68
27	The use of natural rubber latex as a renewable and sustainable modifier of asphalt binder. International Journal of Pavement Engineering, 2017, 18, 547-559.	2.2	67
28	Estimation of mean and covariance of peak hour origin–destination demands from day-to-day traffic counts. Transportation Research Part B: Methodological, 2014, 68, 52-75.	2.8	61
29	Shortest Path Finding Problem in Stochastic Time-Dependent Road Networks With Stochastic First-In-First-Out Property. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1907-1917.	4.7	56
30	Modeling the impacts of mandatory and discretionary lane-changing maneuvers. Transportation Research Part C: Emerging Technologies, 2016, 68, 403-424.	3.9	54
31	Dynamic Cell Transmission–Based Pedestrian Model with Multidirectional Flows and Strategic Route Choices. Transportation Research Record, 2007, 2039, 42-49.	1.0	52
32	A dynamic traffic assignment model for a continuum transportation system. Transportation Research Part B: Methodological, 2011, 45, 343-363.	2.8	52
33	An efficient solution algorithm for solving multi-class reliability-based traffic assignment problem. Mathematical and Computer Modelling, 2011, 54, 1428-1439.	2.0	51
34	First-best marginal cost toll for a traffic network with stochastic demand. Transportation Research Part B: Methodological, 2011, 45, 41-59.	2.8	48
35	Robust perimeter control for two urban regions with macroscopic fundamental diagrams: A control-Lyapunov function approach. Transportation Research Part B: Methodological, 2018, 117, 687-707.	2.8	48
36	Efficiency and equity comparison of cordon- and area-based road pricing schemes using a trip-chain equilibrium model. Transportation Research, Part A: Policy and Practice, 2007, 41, 655-671.	2.0	44

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37	Reliable Network Design Problem. Transportation Research Record, 2006, 1964, 81-90.	1.0	43
38	A Study on Network Design Problems for Multi-modal Networks by Probit-based Stochastic User Equilibrium. Networks and Spatial Economics, 2007, 7, 213-240.	0.7	42
39	A cross-entropy method and probabilistic sensitivity analysis framework for calibrating microscopic traffic models. Transportation Research Part C: Emerging Technologies, 2016, 63, 147-169.	3.9	41
40	Sensitivity analysis of the variable demand probit stochastic user equilibrium with multiple user-classes. Transportation Research Part B: Methodological, 2007, 41, 593-615.	2.8	40
41	Optimizing toll locations and levels using a mixed integer linear approximation approach. Transportation Research Part B: Methodological, 2012, 46, 834-854.	2.8	40
42	Design of Sustainable Cordon Toll Pricing Schemes in a Monocentric City. Networks and Spatial Economics, 2014, 14, 133-158.	0.7	39
43	Dynamic marginal cost, access control, and pollution charge: a comparison of bottleneck and whole link models. Journal of Advanced Transportation, 2012, 46, 191-221.	0.9	38
44	Dynamic stochastic journey time estimation and reliability analysis using stochastic cell transmission model: Algorithm and case studies. Transportation Research Part C: Emerging Technologies, 2013, 35, 263-285.	3.9	38
45	Forecasting journey time distribution with consideration to abnormal traffic conditions. Transportation Research Part C: Emerging Technologies, 2017, 85, 292-311.	3.9	38
46	Boundary conditions and behavior of the macroscopic fundamental diagram based network traffic dynamics: A control systems perspective. Transportation Research Part B: Methodological, 2018, 111, 327-355.	2.8	37
47	Dynamic user equilibrium with side constraints for a traffic network: Theoretical development and numerical solution algorithm. Transportation Research Part B: Methodological, 2011, 45, 1035-1061.	2.8	36
48	Network Evaluation Based on Connectivity Vulnerability. , 2009, , 637-649.		35
49	Comparison of judgmental and optimal road pricing cordons. Transport Policy, 2005, 12, 384-390.	3.4	34
50	MULTI-CONCENTRIC OPTIMAL CHARGING CORDON DESIGN. Transportmetrica, 2007, 3, 41-71.	1.8	34
51	Stochastic cell transmission model for traffic network with demand and supply uncertainties. Transportmetrica A: Transport Science, 2013, 9, 567-602.	1.3	33
52	Modeling the Effects of Public Bicycle Schemes in a Congested Multi-Modal Road Network. International Journal of Sustainable Transportation, 2015, 9, 282-297.	2.1	33
53	Road user charging design: dealing with multi-objectives and constraints. Transportation, 2009, 36, 167-186.	2.1	31
54	Multiclass multilane model for freeway traffic mixed with connected automated vehicles and regular human-piloted vehicles. Transportmetrica A: Transport Science, 2021, 17, 5-33.	1.3	31

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55	Partitionâ€based algorithm for estimating transportation network reliability with dependent link failures. Journal of Advanced Transportation, 2008, 42, 213-238.	0.9	30
56	Network Equilibrium under Cumulative Prospect Theory and Endogenous Stochastic Demand and Supply. , 2009, , 19-38.		30
57	Evaluation and Design of Transport Network Capacity under Demand Uncertainty. Transportation Research Record, 2009, 2090, 17-28.	1.0	26
58	Optimal and robust strategies for freeway traffic management under demand and supply uncertainties: an overview and general theory. Transportmetrica A: Transport Science, 2014, 10, 849-877.	1.3	26
59	The multi-class schedule-based transit assignment model under network uncertainties. Public Transport, 2010, 2, 69-86.	1.7	24
60	Modeling Impact of Transit Operator Fleet Size under various Market Regimes with Uncertainty in Network. Transportation Research Record, 2008, 2063, 18-27.	1.0	23
61	Specification of Optimal Cordon Pricing Locations and Charges. Transportation Research Record, 2002, 1812, 60-68.	1.0	21
62	Statistical estimation of freight activity analytics from Global Positioning System data of trucks. Transportation Research, Part E: Logistics and Transportation Review, 2020, 140, 101986.	3.7	21
63	On the existence and uniqueness of first best tolls in networks with multiple user classes and elastic demand. Transportmetrica, 2009, 5, 141-157.	1.8	20
64	Second best toll and capacity optimisation in networks: solution algorithm and policy implications. Transportation, 2009, 36, 147-165.	2.1	18
65	Estimation of mean and covariance of stochastic multi-class OD demands from classified traffic counts. Transportation Research Part C: Emerging Technologies, 2015, 59, 92-110.	3.9	18
66	Freight Traffic Analytics from National Truck GPS Data in Thailand. Transportation Research Procedia, 2018, 34, 123-130.	0.8	17
67	Policy Implications of Airline Performance Indicators. Transportation Research Record, 2010, 2177, 41-48.	1.0	16
68	Bus lane safety implications: a case study in Hong Kong. Transportmetrica A: Transport Science, 2014, 10, 140-159.	1.3	16
69	Study on Optimal Frequency Design Problem for Multimodal Network Using Probit-Based User Equilibrium Assignment. , 0, .		16
70	A congestion-pricing problem with a polycentric region and multi-class users: a continuum modelling approach. Transportmetrica A: Transport Science, 2013, 9, 514-545.	1.3	15
71	Link-based multi-class hazmat routing-scheduling problem: A multiple demon approach. European Journal of Operational Research, 2017, 261, 337-354.	3.5	15
72	Journey time estimator for assessment of road network performance under demand uncertainty. Transportation Research Part C: Emerging Technologies, 2013, 35, 244-262.	3.9	14

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73	Vehicle Reidentification With Self-Adaptive Time Windows for Real-Time Travel Time Estimation. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 540-552.	4.7	14
74	Pricing Environmental Externality in Traffic Networks Mixed With Fuel Vehicles and Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5535-5554.	4.7	14
75	Probabilistic Fusion of Vehicle Features for Reidentification and Travel Time Estimation Using Video Image Data. Transportation Research Record, 2012, 2308, 73-82.	1.0	13
76	Optimization of traffic count locations for estimation of travel demands with covariance between origin-destination flows. Transportation Research Part C: Emerging Technologies, 2019, 108, 49-73.	3.9	13
77	Guest Editorial: Reliability and Emergency Issues in Transportation Network Analysis. Networks and Spatial Economics, 2006, 6, 169-172.	0.7	12
78	Dynamic System Optimum Analysis of Multi-Region Macroscopic Fundamental Diagram Systems With State-Dependent Time-Varying Delays. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4000-4016.	4.7	12
79	A Continuum Modeling Approach for Network Vulnerability Analysis at Regional Scale. Procedia, Social and Behavioral Sciences, 2013, 80, 846-859.	0.5	11
80	Study on Optimal Frequency Design Problem for Multimodal Network Using Probit-Based User Equilibrium Assignment. Transportation Research Record, 2005, 1923, 236-245.	1.0	10
81	Statistical approach for activity-based model calibration based on plate scanning and traffic counts data. Transportation Research Part B: Methodological, 2015, 78, 280-300.	2.8	10
82	A real-time bus arrival time information system using crowdsourced smartphone data: a novel framework and simulation experiments. Transportmetrica B, 2018, 6, 34-53.	1.4	10
83	Simultaneous optimization of fuel surcharges and transit service runs in a multimodal transport network: a time-dependent activity-based approach. Transportation Letters, 2016, 8, 35-46.	1.8	9
84	Network-wide on-line travel time estimation with inconsistent data from multiple sensor systems under network uncertainty. Transportmetrica A: Transport Science, 2018, 14, 110-129.	1.3	9
85	An Optimal Toll Design Problem with Improved Behavioural Equilibrium Model: The Case of the Probit Model. , 2006, , 219-240.		9
86	Adaptive Estimation of Noise Covariance Matrices in Unscented Kalman Filter for Multiclass Traffic Flow Model. Transportation Research Record, 2010, 2188, 119-130.	1.0	8
87	Optimal Recovery Plan after Disaster: Continuum Modeling Approach. Journal of Transportation Engineering, 2014, 140, .	0.9	8
88	Solving a mixed integer linear program approximation of the toll design problem using constraint generation within a branch-and-cut algorithm. Transportmetrica A: Transport Science, 2014, 10, 791-819.	1.3	8
89	Estimation of the value of travel time and of travel time reliability for heterogeneous drivers in a road network. Transportation, 2021, 48, 1639-1670.	2.1	8
90	Travel time reliability-based optimization problem for CAVs dedicated lanes. Transportmetrica A: Transport Science, 2022, 18, 1569-1600.	1.3	8

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91	Design of a rail transit line for profit maximization in a linear transportation corridor. Procedia, Social and Behavioral Sciences, 2011, 17, 82-112.	0.5	7
92	Updating of Travel Behavior Model Parameters and Estimation of Vehicle Trip Chain Based on Plate Scanning. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2014, 18, 393-409.	2.6	7
93	A stochastic multimodal reliable network design problem under adverse weather conditions. Journal of Advanced Transportation, 2015, 49, 73-95.	0.9	7
94	Estimation of Mean and Covariance of Stochastic Multi-class OD Demands from Classified Traffic Counts. Transportation Research Procedia, 2015, 7, 192-211.	0.8	6
95	Evaluation and enhancement of transport network reliability: Network equilibrium based approach. Journal of Advanced Transportation, 2008, 42, 209-212.	0.9	5
96	Stochastic Cell Transmission Model: Traffic State Estimation under Uncertainties. , 2008, , .		5
97	Optimal Locations and Charges for Cordon Schemes. Research in Transportation Economics, 2004, 9, 87-105.	2.2	3
98	An optimal control framework for multi-region macroscopic fundamental diagram systems with time delay, considering route choice and departure time choice. , 2018, , .		3
99	Introduction: Modeling for Sustainable Urban Transportation. International Journal of Sustainable Transportation, 2013, 7, 167-169.	2.1	2
100	Transport dynamics: its time has come!. Transportmetrica B, 2013, 1, 1-2.	1.4	2
101	Automatic Freeway Incident Detection for Free Flow Conditions: A Vehicle Reidentification Based Approach Using Image Data from Sparsely Distributed Video Cameras. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	2
102	Using Time-dependent Attractiveness to Evaluate Dynamic Place-based Accessibility. , 2018, , .		1
103	Robust Transport Network Capacity Planning with Demand Uncertainty. , 2008, , .		0
104	Critical Link Identification for Traffic Incident Management Programme under Degradable Stochastic Network. HKIE Transactions, 2009, 16, 48-55.	1.9	0
105	Evolutionary Marginal Cost Pricing Scheme Implementation Based on Stochastic Traffic Flow Information. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	0
106	Network-Wide Road Travel Time Estimation with Inconsistent Sensor Data. , 2010, , .		0
107	Genetic Algorithm for Constraint Optimal Toll Ring Design. Studies in Computational Intelligence, 2008, , 45-61.	0.7	0