

Yu Nie

List of Publications by Year in descending order

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135
papers

4,447
citations

109264

35
h-index

128225

60
g-index

140
all docs

140
docs citations

140
times ranked

2480
citing authors

#	ARTICLE	IF	CITATIONS
1	An Autonomous Modular Mobility Paradigm. IEEE Intelligent Transportation Systems Magazine, 2023, 15, 378-386.	2.6	3
2	Quantifying the competitiveness of transit relative to taxi with multifaceted data. Transportmetrica A: Transport Science, 2022, 18, 324-343.	1.3	4
3	A bimodal transit system for large cities: cost efficiency and environment friendliness. Transportmetrica A: Transport Science, 2022, 18, 1154-1177.	1.3	4
4	Are autonomous vehicles better off without signals at intersections? A comparative computational study. Transportation Research Part B: Methodological, 2022, 155, 26-46.	2.8	20
5	Managing bottleneck congestion with tradable credits under asymmetric transaction cost. Transportation Research, Part E: Logistics and Transportation Review, 2022, 158, 102600.	3.7	11
6	Auction-Based Permit Allocation and Sharing System (A-PASS) for Travel Demand Management. Transportation Science, 2022, 56, 322-337.	2.6	5
7	Hyperbush Algorithm for Strategy-Based Equilibrium Traffic Assignment Problems. Transportation Science, 2022, 56, 877-903.	2.6	7
8	Train platforming and rescheduling with flexible interlocking mechanisms: An aggregate approach. Transportation Research, Part E: Logistics and Transportation Review, 2022, 159, 102622.	3.7	12
9	Mitigating traffic congestion induced by transportation network companies: A policy analysis. Transportation Research, Part A: Policy and Practice, 2022, 159, 96-118.	2.0	7
10	Optimizing operational strategies for mass transit systems in response to a global pandemic. Transportation Research, Part A: Policy and Practice, 2022, 161, 221-240.	2.0	0
11	Impact of Information on Topology-Induced Traffic Oscillations. Transportation Science, 2021, 55, 475-490.	2.6	2
12	Potential of carpool for network traffic management. International Journal of Transportation Science and Technology, 2021, , .	2.0	1
13	Inter-platform competition in a regulated ride-hail market with pooling. Transportation Research, Part E: Logistics and Transportation Review, 2021, 151, 102327.	3.7	29
14	Plunge and rebound of a taxi market through COVID-19 lockdown: Lessons learned from Shenzhen, China. Transportation Research, Part A: Policy and Practice, 2021, 150, 349-366.	2.0	14
15	A multi-hop control scheme for traffic management. Transportation Research Part C: Emerging Technologies, 2021, 130, 103278.	3.9	1
16	To pool or not to pool: Equilibrium, pricing and regulation. Transportation Research Part B: Methodological, 2021, 151, 59-90.	2.8	48
17	Matching and routing for shared autonomous vehicles in congestible network. Transportation Research, Part E: Logistics and Transportation Review, 2021, 156, 102513.	3.7	12
18	Dynamic trucking equilibrium through a freight exchange. Transportation Research Part C: Emerging Technologies, 2020, 113, 193-212.	3.9	7

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19	Paired-line hybrid transit design considering spatial heterogeneity. <i>Transportation Research Part B: Methodological</i> , 2020, 132, 320-339.	2.8	15
20	Map matching based on multi-layer road index. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 118, 102651.	3.9	19
21	Hyperpath-based algorithms for the transit equilibrium assignment problem. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2020, 143, 102102.	3.7	17
22	Hyperpath Truck Routing in an Online Freight Exchange Platform. <i>Transportation Science</i> , 2020, 54, 1676-1696.	2.6	16
23	On the role of route choice modeling in transit sketchy design. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 136, 223-243.	2.0	4
24	Departure and travel time model for the temporal distribution of morning rush-hour traffic congestion. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050023.	0.8	2
25	Dynamic carpool in morning commute: Role of high-occupancy-vehicle (HOV) and high-occupancy-toll (HOT) lanes. <i>Transportation Research Part B: Methodological</i> , 2020, 135, 98-119.	2.8	28
26	Efficient Algorithm for the Traffic Assignment Problem with Side Constraints. <i>Transportation Research Record</i> , 2020, 2674, 129-139.	1.0	7
27	Pricing Carpool Rides Based on Schedule Displacement. <i>Transportation Science</i> , 2020, 54, 1134-1152.	2.6	4
28	Demand information sharing in port concession arrangements. <i>Transportation Research Part B: Methodological</i> , 2020, 138, 118-143.	2.8	11
29	Some analytical results on spatial price differentiation in first-best congestion pricing schemes. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 114, 425-445.	3.9	12
30	Analyzing the impact of automated vehicles on uncertainty and stability of the mixed traffic flow. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 112, 203-219.	3.9	111
31	Modeling and Prediction of the Volatility of the Freight Rate in the Roadway Freight Market of China. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-15.	0.6	1
32	Coordinated management and control of autonomous traffic systems. <i>Chinese Science Bulletin</i> , 2020, 65, 434-441.	0.4	1
33	Does driving-day-based tradable credit scheme outperform license plate rationing? Examination considering transaction cost. <i>Journal of Modern Transportation</i> , 2019, 27, 198-210.	2.5	3
34	Intersection Operation with Non-Traditional Dynamic Lane Scheme through Vehicle-to-Signal Connection. <i>Transportation Research Record</i> , 2019, 2673, 322-332.	1.0	3
35	Diffusion behavior in a docked bike-sharing system. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 107, 510-524.	3.9	21
36	Dynamic Trucking Equilibrium through a Freight Exchange. <i>Transportation Research Procedia</i> , 2019, 38, 320-340.	0.8	0

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37	Paired-line hybrid transit design considering spatial heterogeneity. <i>Transportation Research Procedia</i> , 2019, 38, 812-832.	0.8	0
38	Impact of ride-pooling on the nature of transit network design. <i>Transportation Research Part B: Methodological</i> , 2019, 129, 175-192.	2.8	14
39	Paired-Line Hybrid Transit System in a Monocentric City with Exponential Demand Pattern. <i>Transportation Research Record</i> , 2019, 2673, 614-626.	1.0	2
40	Whereabouts of truckers: An empirical study of predictability. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 104, 184-195.	3.9	11
41	A New Algorithm for Achieving Proportionality in User Equilibrium Traffic Assignment. <i>Transportation Science</i> , 2019, 53, 566-584.	2.6	13
42	Complementarity Formulation and Solution Algorithm for Auto-Transit Assignment Problem. <i>Transportation Research Record</i> , 2019, 2673, 384-397.	1.0	4
43	Modeling tradable credit scheme in managing bottleneck congestion with consideration of transaction cost. , 2019, , .		1
44	Hunting image: Taxi search strategy recognition using Sparse Subspace Clustering. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 109, 250-266.	3.9	14
45	Promoting social equity with cyclic tradable credits. <i>Transportation Research Part B: Methodological</i> , 2019, 121, 56-73.	2.8	28
46	Trajectory-based traffic management inside an autonomous vehicle zone. <i>Transportation Research Part B: Methodological</i> , 2019, 120, 76-98.	2.8	51
47	Optimal design of demand adaptive paired-line hybrid transit: Case of radial route structure. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2018, 110, 71-89.	3.7	32
48	The identification of truck-related greenhouse gas emissions and critical impact factors in an urban logistics network. <i>Journal of Cleaner Production</i> , 2018, 178, 561-571.	4.6	27
49	Mitigating the impact of selfish routing: An optimal-ratio control scheme (ORCS) inspired by autonomous driving. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 87, 75-90.	3.9	61
50	Managing partially automated network traffic flow: Efficiency vs. stability. <i>Transportation Research Part B: Methodological</i> , 2018, 114, 300-324.	2.8	34
51	A Greedy Path-Based Algorithm for Traffic Assignment. <i>Transportation Research Record</i> , 2018, 2672, 36-44.	1.0	34
52	Connecting e-hailing to mass transit platform: Analysis of relative spatial position. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 77, 444-461.	3.9	62
53	On the potential remedies for license plate rationing. <i>Economics of Transportation</i> , 2017, 9, 37-50.	1.1	21
54	Testing the proportionality condition with taxi trajectory data. <i>Transportation Research Part B: Methodological</i> , 2017, 104, 583-601.	2.8	14

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55	Analysis of an idealized system of demand adaptive paired-line hybrid transit. <i>Transportation Research Part B: Methodological</i> , 2017, 102, 38-54.	2.8	59
56	Modeling collusion-proof port emission regulation of cargo-handling activities under incomplete information. <i>Transportation Research Part B: Methodological</i> , 2017, 104, 543-567.	2.8	37
57	How can the taxi industry survive the tide of ridesourcing? Evidence from Shenzhen, China. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 79, 242-256.	3.9	218
58	Crowdsourced Urban Package Delivery. <i>Transportation Research Record</i> , 2017, 2610, 67-75.	1.0	64
59	A Credit-Based Congestion Management Scheme in General Two-Mode Networks with Multiclass Users. <i>Networks and Spatial Economics</i> , 2017, 17, 681-711.	0.7	26
60	Why is license plate rationing not a good transport policy?. <i>Transportmetrica A: Transport Science</i> , 2017, 13, 1-23.	1.3	26
61	Characterization of Trip-Level Pace Variability Based on Taxi GPS Trajectory Data. <i>Transportation Research Record</i> , 2017, 2667, 51-60.	1.0	2
62	Finding Efficient and Environmentally Friendly Paths for Risk-Averse Freight Carriers. <i>Networks and Spatial Economics</i> , 2016, 16, 255-275.	0.7	17
63	A general corridor model for designing plug-in electric vehicle charging infrastructure to support intercity travel. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 68, 389-402.	3.9	91
64	Solving Detour-Based Fuel Stations Location Problems. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016, 31, 132-144.	6.3	29
65	A path-based greedy algorithm for multi-objective transit routes design with elastic demand. <i>Public Transport</i> , 2016, 8, 261-293.	1.7	5
66	Path Finding in Stochastic Time Varying Networks with Spatial and Temporal Correlations for Heterogeneous Travelers. <i>Transportation Research Record</i> , 2016, 2567, 105-113.	1.0	16
67	Optimization of incentive policies for plug-in electric vehicles. <i>Transportation Research Part B: Methodological</i> , 2016, 84, 103-123.	2.8	84
68	Planning charging infrastructure for plug-in electric vehicles in city centers. <i>International Journal of Sustainable Transportation</i> , 2016, 10, 343-353.	2.1	53
69	Optimal Multi-Step Toll Design under General User Heterogeneity. <i>Transportation Research Procedia</i> , 2015, 7, 341-361.	0.8	2
70	Optimal multi-step toll design under general user heterogeneity. <i>Transportation Research Part B: Methodological</i> , 2015, 81, 775-793.	2.8	7
71	Stochastic Optimal Path Problem with Relays. <i>Transportation Research Procedia</i> , 2015, 7, 129-148.	0.8	4
72	A Capacity-Restraint Transit Assignment Model When a Predetermination Method Indicates the Invalidity of Time Independence. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-12.	0.6	0

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73	Urban Travel Time Reliability Analysis with Consumer GPS Data. Transportation Research Record, 2015, 2497, 73-83.	1.0	2
74	Optimal vehicle speed trajectory on a signalized arterial with consideration of queue. Transportation Research Part C: Emerging Technologies, 2015, 61, 106-120.	3.9	218
75	Stochastic optimal path problem with relays. Transportation Research Part C: Emerging Technologies, 2015, 59, 48-65.	3.9	4
76	Solving the step-tolled bottleneck model with general user heterogeneity. Transportation Research Part B: Methodological, 2015, 81, 210-229.	2.8	22
77	Optimal transit routing with partial online information. Transportation Research Part B: Methodological, 2015, 72, 40-58.	2.8	20
78	A New Tradable Credit Scheme for the Morning Commute Problem. Networks and Spatial Economics, 2015, 15, 719-741.	0.7	42
79	A semi-analytical approach for solving the bottleneck model with general user heterogeneity. Transportation Research Part B: Methodological, 2015, 71, 56-70.	2.8	59
80	Finding optimal hyperpaths in large transit networks with realistic headway distributions. European Journal of Operational Research, 2015, 240, 98-108.	3.5	30
81	Empirical analysis of the dependence structure in traffic data using copula function. , 2014, , .		2
82	Extended spectral envelope method for detecting and analyzing traffic oscillations. Transportation Research Part B: Methodological, 2014, 61, 1-16.	2.8	11
83	Simulation-Based Method for Finding Minimum Travel Time Budget Paths in Stochastic Networks with Correlated Link Times. Transportation Research Record, 2014, 2467, 140-148.	1.0	29
84	A corridor-centric approach to planning electric vehicle charging infrastructure. Transportation Research Part B: Methodological, 2013, 57, 172-190.	2.8	188
85	Bicriterion Shortest Path Problem with a General Nonadditive Cost. Procedia, Social and Behavioral Sciences, 2013, 80, 553-575.	0.5	24
86	Quadratic approximation and convergence of some bush-based algorithms for the traffic assignment problem. Transportation Research Part B: Methodological, 2013, 56, 15-30.	2.8	20
87	Tradable credit schemes on networks with mixed equilibrium behaviors. Transportation Research Part B: Methodological, 2013, 57, 47-65.	2.8	75
88	An eco-routing model considering microscopic vehicle operating conditions. Transportation Research Part B: Methodological, 2013, 55, 154-170.	2.8	84
89	Managing rush hour travel choices with tradable credit scheme. Transportation Research Part B: Methodological, 2013, 50, 1-19.	2.8	143
90	Bicriterion shortest path problem with a general nonadditive cost. Transportation Research Part B: Methodological, 2013, 57, 419-435.	2.8	25

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91	Modelling network flow with and without link interactions: the cases of point queue, spatial queue and cell transmission model. <i>Transportmetrica B</i> , 2013, 1, 33-51.	1.4	32
92	Impacts of Correlations on Reliable Shortest Path Finding. <i>Transportation Research Record</i> , 2013, 2334, 1-9.	1.0	36
93	Analysis and Design of Tradable Credit Schemes under Uncertainty. <i>Transportation Research Record</i> , 2013, 2333, 27-36.	1.0	45
94	Solving the Multiclass Percentile User Equilibrium Traffic Assignment Problem. <i>Transportation Research Record</i> , 2013, 2334, 75-83.	1.0	9
95	A Note on Bar-Gera's Algorithm for the Origin-Based Traffic Assignment Problem. <i>Transportation Science</i> , 2012, 46, 27-38.	2.6	34
96	Welfare Effects of Congestion Pricing and Transit Services in Multiclass Multimodal Networks. <i>Transportation Research Record</i> , 2012, 2283, 34-43.	1.0	5
97	Update Strategies for Restricted Master Problems for User Equilibrium Traffic Assignment Problem. <i>Transportation Research Record</i> , 2012, 2283, 131-142.	1.0	10
98	Optimal Path Problems with Second-Order Stochastic Dominance Constraints. <i>Networks and Spatial Economics</i> , 2012, 12, 561-587.	0.7	45
99	Reliable route guidance: A case study from Chicago. <i>Transportation Research, Part A: Policy and Practice</i> , 2012, 46, 403-419.	2.0	33
100	Transaction costs and tradable mobility credits. <i>Transportation Research Part B: Methodological</i> , 2012, 46, 189-203.	2.8	119
101	User-equilibrium route flows and the condition of proportionality. <i>Transportation Research Part B: Methodological</i> , 2012, 46, 440-462.	2.8	44
102	Modeling heterogeneous risk-taking behavior in route choice: A stochastic dominance approach. <i>Transportation Research, Part A: Policy and Practice</i> , 2011, 45, 896-915.	2.0	33
103	A cell-based Merchant's Nemhauser model for the system optimum dynamic traffic assignment problem. <i>Transportation Research Part B: Methodological</i> , 2011, 45, 329-342.	2.8	58
104	Morning commute problem considering route choice, user heterogeneity and alternative system optima. <i>Transportation Research Part B: Methodological</i> , 2011, 45, 619-642.	2.8	61
105	Multi-class percentile user equilibrium with flow-dependent stochasticity. <i>Transportation Research Part B: Methodological</i> , 2011, 45, 1641-1659.	2.8	66
106	Application of Discrete Fourier Transform to Find Reliable Shortest Paths. <i>Transportation Research Record</i> , 2011, 2263, 82-91.	1.0	4
107	Modeling Heterogeneous Risk-Taking Behavior in Route Choice: A Stochastic Dominance Approach. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 17, 382-404.	0.5	16
108	Solving the Dynamic User Optimal Assignment Problem Considering Queue Spillback. <i>Networks and Spatial Economics</i> , 2010, 10, 49-71.	0.7	54

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109	A Relaxation Approach for Estimating Origin-Destination Trip Tables. Networks and Spatial Economics, 2010, 10, 147-172.	0.7	29
110	Existence of self-financing and Pareto-improving congestion pricing: Impact of value of time distribution. Transportation Research, Part A: Policy and Practice, 2010, 44, 39-51.	2.0	31
111	Equilibrium analysis of macroscopic traffic oscillations. Transportation Research Part B: Methodological, 2010, 44, 62-72.	2.8	14
112	A class of bush-based algorithms for the traffic assignment problem. Transportation Research Part B: Methodological, 2010, 44, 73-89.	2.8	105
113	Stability of user-equilibrium route flow solutions for the traffic assignment problem. Transportation Research Part B: Methodological, 2010, 44, 609-617.	2.8	47
114	Numerical solution procedures for the morning commute problem. Mathematical and Computer Modelling, 2009, 49, 1295-1310.	2.0	3
115	Implementation Issues for the Reliable a Priori Shortest Path Problem. Transportation Research Record, 2009, 2091, 51-60.	1.0	19
116	Shortest path problem considering on-time arrival probability. Transportation Research Part B: Methodological, 2009, 43, 597-613.	2.8	252
117	Local Synchronization Control Scheme for Congested Interchange Areas in Freeway Corridor. Transportation Research Record, 2009, 2128, 173-183.	1.0	8
118	Reliable a Priori Shortest Path Problem with Limited Spatial and Temporal Dependencies. , 2009, , 169-195.		41
119	A Polymorphic Dynamic Network Loading Model. Computer-Aided Civil and Infrastructure Engineering, 2008, 23, 86-103.	6.3	38
120	Estimating Time-Dependent Freeway Origin-Destination Demands with Different Data Coverage. Transportation Research Record, 2008, 2047, 91-99.	1.0	16
121	A variational inequality formulation for inferring dynamic origin-destination travel demands. Transportation Research Part B: Methodological, 2008, 42, 635-662.	2.8	47
122	Oscillatory Traffic Flow Patterns Induced by Queue Spillback in a Simple Road Network. Transportation Science, 2008, 42, 236-248.	2.6	15
123	Dynamic Network Simplex Method for Designing Emergency Evacuation Plans. Transportation Research Record, 2007, 2022, 83-93.	1.0	46
124	The impact of speed post-processing methods on regional mobile emissions estimation. Transportation Research, Part D: Transport and Environment, 2007, 12, 307-324.	3.2	18
125	Optimal Routing for Maximizing the Travel Time Reliability. Networks and Spatial Economics, 2006, 6, 333-344.	0.7	89
126	Arriving-on-Time Problem: Discrete Algorithm That Ensures Convergence. Transportation Research Record, 2006, 1964, 193-200.	1.0	36

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127	Inferring origin–destination trip matrices with a decoupled GLS path flow estimator. <i>Transportation Research Part B: Methodological</i> , 2005, 39, 497-518.	2.8	61
128	Models and algorithms for the traffic assignment problem with link capacity constraints. <i>Transportation Research Part B: Methodological</i> , 2004, 38, 285-312.	2.8	124
129	A conjugate gradient projection algorithm for the traffic assignment problem. <i>Mathematical and Computer Modelling</i> , 2003, 37, 863-878.	2.0	20
130	Uncoupled Method for Equilibrium-Based Linear Path Flow Estimator for Origin-Destination Trip Matrices. <i>Transportation Research Record</i> , 2002, 1783, 72-79.	1.0	18
131	Link- and Path-Based Traffic Assignment Algorithms: Computational and Statistical Study. <i>Transportation Research Record</i> , 2002, 1783, 80-88.	1.0	10
132	Accelerating Strategies and Computational Studies of the Frank–Wolfe Algorithm for the Traffic Assignment Problem. <i>Transportation Research Record</i> , 2001, 1771, 97-105.	1.0	11
133	Are autonomous vehicles better off without signals at intersections? A comparative computational study. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
134	A Physical Model of Street Ride-Hail. <i>SSRN Electronic Journal</i> , 0, , .	0.4	8
135	An Efficiency Paradox of Uberization. <i>SSRN Electronic Journal</i> , 0, , .	0.4	11