Dong Ngoduy

List of Publications by Year
in descending order

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83 papers	2,709 citations	186209 28 h-index	189801 50 g-index
83 all docs	83 docs citations	83 times ranked	1547 citing authors

#	Article	IF	Citations
1	Mode differentiation in partitioning of mixed bi-modal urban networks. Transportmetrica B, 2023, 11, 463-485.	1.4	1
2	A Cooperative Space Distribution Method for Autonomous Vehicles at A Lane-Drop Bottleneck on Multi-Lane Freeways. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3710-3723.	4.7	4
3	Incremental unscented Kalman filter for real-time traffic estimation on motorways using multi-source data. Transportmetrica A: Transport Science, 2022, 18, 1127-1153.	1.3	4
4	Real-Time Prediction of the Lane-Based Delay for Group-Based Adaptive Traffic Operations Using Long Short-Term Memory. Lecture Notes in Computer Science, 2022, , 417-427.	1.0	0
5	Estimating Passenger Car Equivalent Factors for Heterogeneous Traffic Using Occupancy-Density Linear Regression Model. Transportation Research Record, 2022, 2676, 209-220.	1.0	1
6	Dynamic wireless charging lanes location model in urban networks considering route choices. Transportation Research Part C: Emerging Technologies, 2022, 139, 103652.	3.9	19
7	A user equilibrium-based fast-charging location model considering heterogeneous vehicles in urban networks. Transportmetrica A: Transport Science, 2021, 17, 439-461.	1.3	13
8	A bilevel programming model for autonomous intersection control and trajectory planning. Transportmetrica A: Transport Science, 2021, 17, 34-58.	1.3	28
9	Examining queue-jumping phenomenon in heterogeneous traffic stream at signalized intersection using UAV-based data. Personal and Ubiquitous Computing, 2021, 25, 93-108.	1.9	5
10	Traffic signal optimisation in disrupted networks, to improve resilience and sustainability. Travel Behaviour & Society, 2021, 22, 117-128.	2.4	16
11	Hopf bifurcation structure of a generic car-following model with multiple time delays. Transportmetrica A: Transport Science, 2021, 17, 878-896.	1.3	9
12	A model predictive perimeter control with real-time partitions. IFAC-PapersOnLine, 2021, 54, 292-297.	0.5	8
13	Multiclass dynamic system optimum solution for mixed traffic of human-driven and automated vehicles considering physical queues. Transportation Research Part B: Methodological, 2021, 145, 56-79.	2.8	27
14	On the fundamental diagram and driving behavior modeling of heterogeneous traffic flow using UAV-based data. Transportation Research, Part A: Policy and Practice, 2021, 148, 100-115.	2.0	15
15	A stochastic behaviour model of a personal mobility under heterogeneous low-carbon traffic flow. Transportation Research Part C: Emerging Technologies, 2021, 128, 103163.	3.9	11
16	Noise-induced instability of a class of stochastic higher order continuum traffic models. Transportation Research Part B: Methodological, 2021, 150, 260-278.	2.8	27
17	Stochasticity and environmental cost inclusion for electric vehicles fast-charging facility deployment. Transportation Research, Part E: Logistics and Transportation Review, 2021, 154, 102460.	3.7	17
18	Macroscopic network-level traffic models: Bridging fifty years of development toward the next era. Transportation Research Part C: Emerging Technologies, 2021, 131, 103334.	3.9	32

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19	Special issue on connected and automated traffic systems. Transportmetrica A: Transport Science, 2021, 17, 1-4.	1.3	3
20	Modelling heterogeneous traffic dynamics by considering the influence of V2V safety messages. IET Intelligent Transport Systems, 2020, 14, 220-227.	1.7	3
21	A car-following model to assess the impact of V2V messages on traffic dynamics. Transportmetrica B, 2020, 8, 150-165.	1.4	17
22	Space Distribution Method for Autonomous Vehicles at a Signalized Multi-Lane Intersection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5283-5294.	4.7	8
23	Impacts of bus stop location and berth number on urban network traffic performance. IET Intelligent Transport Systems, 2020, 14, 1546-1554.	1.7	18
24	Bi-level optimization for locating fast-charging stations in large-scale urban networks. , 2020, , .		0
25	Integrated deep learning and stochastic car-following model for traffic dynamics on multi-lane freeways. Transportation Research Part C: Emerging Technologies, 2019, 106, 360-377.	3.9	44
26	Langevin method for a continuous stochastic car-following model and its stability conditions. Transportation Research Part C: Emerging Technologies, 2019, 105, 599-610.	3.9	69
27	Multiple model stochastic filtering for traffic density estimation on urban arterials. Transportation Research Part B: Methodological, 2019, 126, 280-306.	2.8	7
28	An advanced deep learning approach to real-time estimation of lane-based queue lengths at a signalized junction. Transportation Research Part C: Emerging Technologies, 2019, 109, 117-136.	3.9	23
29	Effects of DSRC-Based Safety Messages on Heterogeneous Traffic Flow Stability. , 2019, , .		0
30	A stochastic schedule-following simulation model of bus routes. Transportmetrica B, 2019, 7, 1588-1610.	1.4	8
31	Evaluation of accuracy of advanced traveler information and commuter behavior in a developing country. Travel Behaviour & Society, 2019, 15, 63-73.	2.4	9
32	Real-Time Dynamic Traffic Control Based on Traffic-State Estimation. Transportation Research Record, 2019, 2673, 584-595.	1.0	11
33	A comparative study on filtering methods for online freeway traffic estimation using heterogeneous data. , 2019, , .		4
34	Effects of Near-Side and Far-Side Bus Stops on NMFD of Bi-Modal Urban Network. , 2019, , .		2
35	A multiclass microscopic model for heterogeneous platoon with vehicle-to-vehicle communication. Transportmetrica B, 2019, 7, 311-335.	1.4	39
36	A study of realistic dynamic traffic assignment with signal control, time-scale, and emission. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2018, 22, 446-461.	2.6	5

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37	A Lane-based Predictive Model of Downstream Arrival Rates in a Queue Estimation Model Using a Long Short-Term Memory Network. Transportation Research Procedia, 2018, 34, 163-170.	0.8	2
38	Traffic Signal Optimisation in Disrupted Networks with Re-Routing. Transportation Research Procedia, 2018, 34, 195-202.	0.8	5
39	A platoon based cooperative eco-driving model for mixed automated and human-driven vehicles at a signalised intersection. Transportation Research Part C: Emerging Technologies, 2018, 95, 802-821.	3.9	219
40	Multi anticipative bidirectional macroscopic traffic model considering cooperative driving strategy. Transportmetrica B, 2017, 5, 96-110.	1.4	13
41	A Joint Controlâ€“Communication Design for Reliable Vehicle Platooning in Hybrid Traffic. IEEE Transactions on Vehicular Technology, 2017, 66, 9394-9409.	3.9	46
42	Optimal queue placement in dynamic system optimum solutions for single origin-destination traffic networks. Transportation Research Part B: Methodological, 2016, 92, 148-169.	2.8	17
43	Enhanced cooperative car-following traffic model with the combination of V2V and V2I communication. Transportation Research Part B: Methodological, 2016, 90, 172-191.	2.8	162
44	Platoon based cooperative driving model with consideration of realistic inter-vehicle communication. Transportation Research Part C: Emerging Technologies, 2016, 68, 245-264.	3.9	214
45	A new multi-anticipative car-following model with consideration of the desired following distance. Nonlinear Dynamics, 2016, 85, 2705-2717.	2.7	39
46	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
47	Prediction of traveller information and route choice based on real-time estimated traffic state. Transportmetrica B, 2016, 4, 23-47.	1.4	10
48	Real-time traffic state estimation in urban corridors from heterogeneous data. Transportation Research Part C: Emerging Technologies, 2016, 66, 99-118.	3.9	104
49	Effect of the car-following combinations on the instability of heterogeneous traffic flow. Transportmetrica B, 2015, 3, 44-58.	1.4	39
50	Probabilistic travel time progression and its application to automatic vehicle identification data. Transportation Research Part B: Methodological, 2015, 81, 131-145.	2.8	15
51	Linear stability of a generalized multi-anticipative car following model with time delays. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 420-426.	1.7	107
52	Significance of Sensor Location in Real-time Traffic State Estimation. Procedia Engineering, 2014, 77, 114-122.	1.2	6
53	Generalized macroscopic traffic model with time delay. Nonlinear Dynamics, 2014, 77, 289-296.	2.7	28
54	Multianticipative Nonlocal Macroscopic Traffic Model. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 248-263.	6.3	39

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55	The two-regime transmission model for network loading in dynamic traffic assignment problems. Transportmetrica A: Transport Science, 2014, 10, 563-584.	1.3	20
56	Instability of cooperative adaptive cruise control traffic flow: A macroscopic approach. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2838-2851.	1.7	105
57	Analytical studies on the instabilities of heterogeneous intelligent traffic flow. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2699-2706.	1.7	142
58	Signal optimisation using the cross entropy method. Transportation Research Part C: Emerging Technologies, 2013, 27, 76-88.	3.9	28
59	Dynamic Bayesian Belief Network to Model the Development of Walking and Cycling Schemes. International Journal of Sustainable Transportation, 2013, 7, 366-388.	2.1	5
60	Platoon-based macroscopic model for intelligent traffic flow. Transportmetrica B, 2013, 1, 153-169.	1.4	34
61	Application of gas-kinetic theory to modelling mixed traffic of manual and ACC vehicles. Transportmetrica, 2012, 8, 43-60.	1.8	76
62	Effect of driver behaviours on the formation and dissipation of traffic flow instabilities. Nonlinear Dynamics, 2012, 69, 969-975.	2.7	34
63	Calibration of second order traffic models using continuous cross entropy method. Transportation Research Part C: Emerging Technologies, 2012, 24, 102-121.	3.9	64
64	Multiclass first-order traffic model using stochastic fundamental diagrams. Transportmetrica, 2011, 7, 111-125.	1.8	92
65	Visions for a walking and cycling focussed urban transport system. Journal of Transport Geography, 2011, 19, 1580-1589.	2.3	85
66	Low-Rank Unscented Kalman Filter for Freeway Traffic Estimation Problems. Transportation Research Record, 2011, 2260, 113-122.	1.0	10
67	Kernel Smoothing Method Applicable to the Dynamic Calibration of Traffic Flow Models. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 420-432.	6.3	23
68	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
69	Multiclass first-order modelling of traffic networks using discontinuous flow-density relationships. Transportmetrica, 2010, 6, 121-141.	1.8	51
70	Continuum modeling of cooperative traffic flow dynamics. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2705-2716.	1.2	59
71	Macroscopic effects of reaction time on traffic flow characteristics. Physica Scripta, 2009, 80, 025802.	1.2	30
72	Macroscopic Effects of Multianticipative Driving Behavior on Traffic Flow Characteristics. Transportation Research Record, 2009, 2124, 103-112.	1.0	5

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73	Applicable filtering framework for online multiclass freeway network estimation. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 599-616.	1.2	30
74	OPERATIONAL EFFECTS OF ACCELERATION LANE ON MAIN TRAFFIC FLOW AT DISCONTINUITIES. Transportmetrica, 2008, 4, 195-207.	1.8	19
75	Multiclass first-order simulation model to explain non-linear traffic phenomena. Physica A: Statistical Mechanics and Its Applications, 2007, 385, 667-682.	1.2	80
76	DERIVATION OF CONTINUUM TRAFFIC MODEL FOR WEAVING SECTIONS ON FREEWAYS. Transportmetrica, 2006, 2, 199-222.	1.8	30
77	Part 2: Car-Following Models: Continuum Traffic Model for Freeway with On- and Off-Ramp to Explain Different Traffic-Congested States. Transportation Research Record, 2006, 1965, 91-102.	1.0	11
78	Modeling Traffic Flow Operation in Multilane and Multiclass Urban Networks. Transportation Research Record, 2005, 1923, 73-81.	1.0	1
79	Modeling Traffic Flow Operation in Multilane and Multiclass Urban Networks. Transportation Research Record, 2005, 1923, 73-81.	1.0	4
80	Comparison of Numerical Schemes for Macroscopic Traffic Flow Models. Transportation Research Record, 2004, 1876, 52-61.	1.0	37
81	An Automated Calibration Procedure for Macroscopic Traffic Flow Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 263-268.	0.4	7
82	Positively Conservative Scheme for Macroscopic Traffic Flow Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 257-262.	0.4	4
83	Traffic dynamics in bi-modal urban networks: a cross-comparison of outflow 2D-NMFD and 3D-NMFD. Transportmetrica B, 0, , 1-31.	1.4	2