

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	A platoon based cooperative eco-driving model for mixed automated and human-driven vehicles at a signalised intersection. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 95, 802-821.	3.9	219
2	Platoon based cooperative driving model with consideration of realistic inter-vehicle communication. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 68, 245-264.	3.9	214
3	Enhanced cooperative car-following traffic model with the combination of V2V and V2I communication. <i>Transportation Research Part B: Methodological</i> , 2016, 90, 172-191.	2.8	162
4	Analytical studies on the instabilities of heterogeneous intelligent traffic flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 2699-2706.	1.7	142
5	Linear stability of a generalized multi-anticipative car following model with time delays. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 420-426.	1.7	107
6	Instability of cooperative adaptive cruise control traffic flow: A macroscopic approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 2838-2851.	1.7	105
7	Real-time traffic state estimation in urban corridors from heterogeneous data. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 66, 99-118.	3.9	104
8	Multiclass first-order traffic model using stochastic fundamental diagrams. <i>Transportmetrica</i> , 2011, 7, 111-125.	1.8	92
9	Visions for a walking and cycling focussed urban transport system. <i>Journal of Transport Geography</i> , 2011, 19, 1580-1589.	2.3	85
10	Multiclass first-order simulation model to explain non-linear traffic phenomena. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 385, 667-682.	1.2	80
11	Application of gas-kinetic theory to modelling mixed traffic of manual and ACC vehicles. <i>Transportmetrica</i> , 2012, 8, 43-60.	1.8	76
12	Langevin method for a continuous stochastic car-following model and its stability conditions. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 105, 599-610.	3.9	69
13	Calibration of second order traffic models using continuous cross entropy method. <i>Transportation Research Part C: Emerging Technologies</i> , 2012, 24, 102-121.	3.9	64
14	Continuum modeling of cooperative traffic flow dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 2705-2716.	1.2	59
15	Multiclass first-order modelling of traffic networks using discontinuous flow-density relationships. <i>Transportmetrica</i> , 2010, 6, 121-141.	1.8	51
16	A Joint Control Communication Design for Reliable Vehicle Platooning in Hybrid Traffic. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 9394-9409.	3.9	46
17	Integrated deep learning and stochastic car-following model for traffic dynamics on multi-lane freeways. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 106, 360-377.	3.9	44
18	A cross-entropy method and probabilistic sensitivity analysis framework for calibrating microscopic traffic models. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 63, 147-169.	3.9	41

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19	Multianticipative Nonlocal Macroscopic Traffic Model. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2014, 29, 248-263.	6.3	39
20	Effect of the car-following combinations on the instability of heterogeneous traffic flow. <i>Transportmetrica B</i> , 2015, 3, 44-58.	1.4	39
21	A new multi-anticipative car-following model with consideration of the desired following distance. <i>Nonlinear Dynamics</i> , 2016, 85, 2705-2717.	2.7	39
22	A multiclass microscopic model for heterogeneous platoon with vehicle-to-vehicle communication. <i>Transportmetrica B</i> , 2019, 7, 311-335.	1.4	39
23	Comparison of Numerical Schemes for Macroscopic Traffic Flow Models. <i>Transportation Research Record</i> , 2004, 1876, 52-61.	1.0	37
24	Effect of driver behaviours on the formation and dissipation of traffic flow instabilities. <i>Nonlinear Dynamics</i> , 2012, 69, 969-975.	2.7	34
25	Platoon-based macroscopic model for intelligent traffic flow. <i>Transportmetrica B</i> , 2013, 1, 153-169.	1.4	34
26	Macroscopic network-level traffic models: Bridging fifty years of development toward the next era. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 131, 103334.	3.9	32
27	DERIVATION OF CONTINUUM TRAFFIC MODEL FOR WEAVING SECTIONS ON FREEWAYS. <i>Transportmetrica</i> , 2006, 2, 199-222.	1.8	30
28	Applicable filtering framework for online multiclass freeway network estimation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 599-616.	1.2	30
29	Macroscopic effects of reaction time on traffic flow characteristics. <i>Physica Scripta</i> , 2009, 80, 025802.	1.2	30
30	Signal optimisation using the cross entropy method. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 27, 76-88.	3.9	28
31	Generalized macroscopic traffic model with time delay. <i>Nonlinear Dynamics</i> , 2014, 77, 289-296.	2.7	28
32	A bilevel programming model for autonomous intersection control and trajectory planning. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 34-58.	1.3	28
33	Multiclass dynamic system optimum solution for mixed traffic of human-driven and automated vehicles considering physical queues. <i>Transportation Research Part B: Methodological</i> , 2021, 145, 56-79.	2.8	27
34	Noise-induced instability of a class of stochastic higher order continuum traffic models. <i>Transportation Research Part B: Methodological</i> , 2021, 150, 260-278.	2.8	27
35	Kernel Smoothing Method Applicable to the Dynamic Calibration of Traffic Flow Models. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2011, 26, 420-432.	6.3	23
36	An advanced deep learning approach to real-time estimation of lane-based queue lengths at a signalized junction. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 109, 117-136.	3.9	23

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37	The two-regime transmission model for network loading in dynamic traffic assignment problems. <i>Transportmetrica A: Transport Science</i> , 2014, 10, 563-584.	1.3	20
38	OPERATIONAL EFFECTS OF ACCELERATION LANE ON MAIN TRAFFIC FLOW AT DISCONTINUITIES. <i>Transportmetrica</i> , 2008, 4, 195-207.	1.8	19
39	Dynamic wireless charging lanes location model in urban networks considering route choices. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 139, 103652.	3.9	19
40	Impacts of bus stop location and berth number on urban network traffic performance. <i>IET Intelligent Transport Systems</i> , 2020, 14, 1546-1554.	1.7	18
41	Optimal queue placement in dynamic system optimum solutions for single origin-destination traffic networks. <i>Transportation Research Part B: Methodological</i> , 2016, 92, 148-169.	2.8	17
42	A car-following model to assess the impact of V2V messages on traffic dynamics. <i>Transportmetrica B</i> , 2020, 8, 150-165.	1.4	17
43	Stochasticity and environmental cost inclusion for electric vehicles fast-charging facility deployment. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2021, 154, 102460.	3.7	17
44	Traffic signal optimisation in disrupted networks, to improve resilience and sustainability. <i>Travel Behaviour & Society</i> , 2021, 22, 117-128.	2.4	16
45	Probabilistic travel time progression and its application to automatic vehicle identification data. <i>Transportation Research Part B: Methodological</i> , 2015, 81, 131-145.	2.8	15
46	On the fundamental diagram and driving behavior modeling of heterogeneous traffic flow using UAV-based data. <i>Transportation Research, Part A: Policy and Practice</i> , 2021, 148, 100-115.	2.0	15
47	Multi anticipative bidirectional macroscopic traffic model considering cooperative driving strategy. <i>Transportmetrica B</i> , 2017, 5, 96-110.	1.4	13
48	A user equilibrium-based fast-charging location model considering heterogeneous vehicles in urban networks. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 439-461.	1.3	13
49	Real-Time Dynamic Traffic Control Based on Traffic-State Estimation. <i>Transportation Research Record</i> , 2019, 2673, 584-595.	1.0	11
50	A stochastic behaviour model of a personal mobility under heterogeneous low-carbon traffic flow. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 128, 103163.	3.9	11
51	Part 2: Car-Following Models: Continuum Traffic Model for Freeway with On- and Off-Ramp to Explain Different Traffic-Congested States. <i>Transportation Research Record</i> , 2006, 1965, 91-102.	1.0	11
52	Low-Rank Unscented Kalman Filter for Freeway Traffic Estimation Problems. <i>Transportation Research Record</i> , 2011, 2260, 113-122.	1.0	10
53	Prediction of traveller information and route choice based on real-time estimated traffic state. <i>Transportmetrica B</i> , 2016, 4, 23-47.	1.4	10
54	Evaluation of accuracy of advanced traveler information and commuter behavior in a developing country. <i>Travel Behaviour & Society</i> , 2019, 15, 63-73.	2.4	9

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55	Hopf bifurcation structure of a generic car-following model with multiple time delays. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 878-896.	1.3	9
56	Adaptive Estimation of Noise Covariance Matrices in Unscented Kalman Filter for Multiclass Traffic Flow Model. <i>Transportation Research Record</i> , 2010, 2188, 119-130.	1.0	8
57	A stochastic schedule-following simulation model of bus routes. <i>Transportmetrica B</i> , 2019, 7, 1588-1610.	1.4	8
58	Space Distribution Method for Autonomous Vehicles at a Signalized Multi-Lane Intersection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 5283-5294.	4.7	8
59	A model predictive perimeter control with real-time partitions. <i>IFAC-PapersOnLine</i> , 2021, 54, 292-297.	0.5	8
60	An Automated Calibration Procedure for Macroscopic Traffic Flow Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 263-268.	0.4	7
61	Multiple model stochastic filtering for traffic density estimation on urban arterials. <i>Transportation Research Part B: Methodological</i> , 2019, 126, 280-306.	2.8	7
62	Significance of Sensor Location in Real-time Traffic State Estimation. <i>Procedia Engineering</i> , 2014, 77, 114-122.	1.2	6
63	Macroscopic Effects of Multianticipative Driving Behavior on Traffic Flow Characteristics. <i>Transportation Research Record</i> , 2009, 2124, 103-112.	1.0	5
64	Dynamic Bayesian Belief Network to Model the Development of Walking and Cycling Schemes. <i>International Journal of Sustainable Transportation</i> , 2013, 7, 366-388.	2.1	5
65	A study of realistic dynamic traffic assignment with signal control, time-scale, and emission. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2018, 22, 446-461.	2.6	5
66	Traffic Signal Optimisation in Disrupted Networks with Re-Routing. <i>Transportation Research Procedia</i> , 2018, 34, 195-202.	0.8	5
67	Examining queue-jumping phenomenon in heterogeneous traffic stream at signalized intersection using UAV-based data. <i>Personal and Ubiquitous Computing</i> , 2021, 25, 93-108.	1.9	5
68	Positively Conservative Scheme for Macroscopic Traffic Flow Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 257-262.	0.4	4
69	A comparative study on filtering methods for online freeway traffic estimation using heterogeneous data. , 2019, , .		4
70	A Cooperative Space Distribution Method for Autonomous Vehicles at A Lane-Drop Bottleneck on Multi-Lane Freeways. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 3710-3723.	4.7	4
71	Incremental unscented Kalman filter for real-time traffic estimation on motorways using multi-source data. <i>Transportmetrica A: Transport Science</i> , 2022, 18, 1127-1153.	1.3	4
72	Modeling Traffic Flow Operation in Multilane and Multiclass Urban Networks. <i>Transportation Research Record</i> , 2005, 1923, 73-81.	1.0	4

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73	Modelling heterogeneous traffic dynamics by considering the influence of V2V safety messages. IET Intelligent Transport Systems, 2020, 14, 220-227.	1.7	3
74	Special issue on connected and automated traffic systems. Transportmetrica A: Transport Science, 2021, 17, 1-4.	1.3	3
75	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
76	Effects of Near-Side and Far-Side Bus Stops on NMFD of Bi-Modal Urban Network. , 2019, , .		2
77	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
78	Modeling Traffic Flow Operation in Multilane and Multiclass Urban Networks. Transportation Research Record, 2005, 1923, 73-81.	1.0	1
79	Estimating Passenger Car Equivalent Factors for Heterogeneous Traffic Using Occupancy-Density Linear Regression Model. Transportation Research Record, 2022, 2676, 209-220.	1.0	1
80	Mode differentiation in partitioning of mixed bi-modal urban networks. Transportmetrica B, 2023, 11, 463-485.	1.4	1
81	Effects of DSRC-Based Safety Messages on Heterogeneous Traffic Flow Stability. , 2019, , .		0
82	Bi-level optimization for locating fast-charging stations in large-scale urban networks. , 2020, , .		0
83	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