

Tom V Mathew

List of Publications by Year in descending order

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papers

932
citations

623734
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26
all docs

26
docs citations

26
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of saturation flow for non-lane based mixed traffic streams. Transportmetrica B, 2021, 9, 42-61.	2.3	3
2	Evaluation of driving performance in relation to safety on an expressway using field driving data. Transportation Letters, 2020, 12, 340-348.	3.1	16
3	Modeling multi-class disordered traffic flow subject to varying vehicle composition using the concept of traversable distance. International Journal of Modern Physics C, 2020, 31, 2050170.	1.7	4
4	Modelling multi-class disordered traffic streams using traversable distance: a concept analogous to fluid permeability. Transportmetrica A: Transport Science, 2020, 16, 1531-1551.	2.0	3
5	A Heuristic Adaptive Traffic Control Algorithm for Signalized Intersections. , 2020, , .		0
6	Estimation of traffic conflicts using precise lateral position and width of vehicles for safety assessment. Accident Analysis and Prevention, 2019, 132, 105264.	5.7	40
7	Analyses and implications of higher order finite volume methods on first-order macroscopic traffic flow models. Transportation Letters, 2019, 11, 542-557.	3.1	6
8	Traffic evacuation time under nonhomogeneous conditions. International Journal of Injury Control and Safety Promotion, 2017, 24, 183-188.	2.0	1
9	Real-time adaptive signal controller for non-lane following heterogeneous road traffic. , 2016, , .		4
10	Towards Behavioral Modeling of Drivers in Mixed Traffic Conditions. Transportation in Developing Economies, 2016, 2, 1.	1.6	37
11	Strip-Based Approach for the Simulation of Mixed Traffic Conditions. Journal of Computing in Civil Engineering, 2015, 29, .	4.7	47
12	Online Coordination of Signals for Heterogeneous Traffic Using Stop Line Detection. Procedia, Social and Behavioral Sciences, 2013, 104, 765-774.	0.5	6
13	Hybrid Stochastic Cellular Automata-Driver-Vehicle-Object Simulation Model for Heterogeneous Traffic at Urban Signalized Intersections. Journal of Computing in Civil Engineering, 2013, 27, 254-262.	4.7	14
14	Multiobjective Optimization Model for Transit Fleet Resource Allocation. Transportation Research Record, 2013, 2351, 1-13.	1.9	3
15	Passenger car units and saturation flow models for highly heterogeneous traffic at urban signalised intersections. Transportmetrica, 2011, 7, 141-162.	1.8	50
16	Intelligent Agent Optimization of Urban Bus Transit System Design. Journal of Computing in Civil Engineering, 2011, 25, 357-369.	4.7	46
17	Multiobjective Network Design for Emission and Travel-Time Trade-off for a Sustainable Large Urban Transportation Network. Environment and Planning B: Planning and Design, 2011, 38, 520-538.	1.7	56
18	Vehicle-Type Dependent Car-Following Model for Heterogeneous Traffic Conditions. Journal of Transportation Engineering, 2011, 137, 775-781.	0.9	50

#	ARTICLE	IF	CITATIONS
19	Approximation Techniques for Transportation Network Design Problem under Demand Uncertainty. Journal of Computing in Civil Engineering, 2011, 25, 316-329.	4.7	11
20	Calibration of Microsimulation Models for Nonlane-Based Heterogeneous Traffic at Signalized Intersections. Journal of the Urban Planning and Development Division, ASCE, 2010, 136, 59-66.	1.7	113
21	Pareto Optimal Multiobjective Optimization for Robust Transportation Network Design Problem. Transportation Research Record, 2009, 2090, 95-104.	1.9	40
22	Capacity Expansion Problem for Large Urban Transportation Networks. Journal of Transportation Engineering, 2009, 135, 406-415.	0.9	50
23	Heterogeneous traffic flow modelling for an arterial using grid based approach. Journal of Advanced Transportation, 2008, 42, 467-491.	1.7	63
24	Robust Transportation Network Design Under Demand Uncertainty. Computer-Aided Civil and Infrastructure Engineering, 2007, 22, 6-18.	9.8	164
25	Transit Route Network Design Using Parallel Genetic Algorithm. Journal of Computing in Civil Engineering, 2004, 18, 248-256.	4.7	105
26	A multi-class first-order traffic flow model to explain the disordered behaviour of vehicles. Transportmetrica B, 0, , 1-20.	2.3	0