

Tom V Mathew

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

932
citations

623188

14
h-index

642321

23
g-index

26
all docs

26
docs citations

26
times ranked

734
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Robust Transportation Network Design Under Demand Uncertainty. Computer-Aided Civil and Infrastructure Engineering, 2007, 22, 6-18. | 6.3 | 164 |
| 2 | 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. | 0.8 | 113 |
| 3 | Transit Route Network Design Using Parallel Genetic Algorithm. Journal of Computing in Civil Engineering, 2004, 18, 248-256. | 2.5 | 105 |
| 4 | Heterogeneous traffic flow modelling for an arterial using grid based approach. Journal of Advanced Transportation, 2008, 42, 467-491. | 0.9 | 63 |
| 5 | 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 |
| 6 | Capacity Expansion Problem for Large Urban Transportation Networks. Journal of Transportation Engineering, 2009, 135, 406-415. | 0.9 | 50 |
| 7 | Passenger car units and saturation flow models for highly heterogeneous traffic at urban signalised intersections. Transportmetrica, 2011, 7, 141-162. | 1.8 | 50 |
| 8 | Vehicle-Type Dependent Car-Following Model for Heterogeneous Traffic Conditions. Journal of Transportation Engineering, 2011, 137, 775-781. | 0.9 | 50 |
| 9 | Strip-Based Approach for the Simulation of Mixed Traffic Conditions. Journal of Computing in Civil Engineering, 2015, 29, . | 2.5 | 47 |
| 10 | Intelligent Agent Optimization of Urban Bus Transit System Design. Journal of Computing in Civil Engineering, 2011, 25, 357-369. | 2.5 | 46 |
| 11 | Pareto Optimal Multiobjective Optimization for Robust Transportation Network Design Problem. Transportation Research Record, 2009, 2090, 95-104. | 1.0 | 40 |
| 12 | Estimation of traffic conflicts using precise lateral position and width of vehicles for safety assessment. Accident Analysis and Prevention, 2019, 132, 105264. | 3.0 | 40 |
| 13 | Towards Behavioral Modeling of Drivers in Mixed Traffic Conditions. Transportation in Developing Economies, 2016, 2, 1. | 0.9 | 37 |
| 14 | Evaluation of driving performance in relation to safety on an expressway using field driving data. Transportation Letters, 2020, 12, 340-348. | 1.8 | 16 |
| 15 | 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. | 2.5 | 14 |
| 16 | Approximation Techniques for Transportation Network Design Problem under Demand Uncertainty. Journal of Computing in Civil Engineering, 2011, 25, 316-329. | 2.5 | 11 |
| 17 | Online Coordination of Signals for Heterogeneous Traffic Using Stop Line Detection. Procedia, Social and Behavioral Sciences, 2013, 104, 765-774. | 0.5 | 6 |
| 18 | Analyses and implications of higher order finite volume methods on first-order macroscopic traffic flow models. Transportation Letters, 2019, 11, 542-557. | 1.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Real-time adaptive signal controller for non-lane following heterogeneous road traffic. , 2016, , . | | 4 |
| 20 | 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. | 0.8 | 4 |
| 21 | Multiobjective Optimization Model for Transit Fleet Resource Allocation. Transportation Research Record, 2013, 2351, 1-13. | 1.0 | 3 |
| 22 | Modelling multi-class disordered traffic streams using traversable distance: a concept analogous to fluid permeability. Transportmetrica A: Transport Science, 2020, 16, 1531-1551. | 1.3 | 3 |
| 23 | Estimation of saturation flow for non-lane based mixed traffic streams. Transportmetrica B, 2021, 9, 42-61. | 1.4 | 3 |
| 24 | Traffic evacuation time under nonhomogeneous conditions. International Journal of Injury Control and Safety Promotion, 2017, 24, 183-188. | 1.0 | 1 |
| 25 | A Heuristic Adaptive Traffic Control Algorithm for Signalized Intersections. , 2020, , . | | 0 |
| 26 | A multi-class first-order traffic flow model to explain the disordered behaviour of vehicles. Transportmetrica B, 0, , 1-20. | 1.4 | 0 |