

Gitakrishnan Ramadurai

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,405
citations

394390

19
h-index

345203

36
g-index

54
all docs

54
docs citations

54
times ranked

1255
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of built environment on pedestrian crash frequency. <i>Safety Science</i> , 2012, 50, 1141-1151.	4.9	202
2	Calibration of VISSIM for Indian Heterogeneous Traffic Conditions. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 104, 380-389.	0.5	89
3	Linear complementarity formulation for single bottleneck model with heterogeneous commuters. <i>Transportation Research Part B: Methodological</i> , 2010, 44, 193-214.	5.9	79
4	Development of driving cycles for passenger cars and motorcycles in Chennai, India. <i>Sustainable Cities and Society</i> , 2017, 32, 508-512.	10.4	73
5	A robust transportation signal control problem accounting for traffic dynamics. <i>Computers and Operations Research</i> , 2010, 37, 869-879.	4.0	69
6	Data Fusion-Based Traffic Density Estimation and Prediction. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2014, 18, 367-378.	4.2	65
7	Electric vehicle routing problem with non-linear charging and load-dependent discharging. <i>Expert Systems With Applications</i> , 2020, 160, 113714.	7.6	62
8	Heterogeneous traffic flow modelling using second-order macroscopic continuum model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 115-123.	2.1	60
9	A comparison of online and in-person activity engagement: The case of shopping and eating meals. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 114, 643-656.	7.6	57
10	Dynamic User Equilibrium Model for Combined Activity-Travel Choices Using Activity-Travel Supernetwork Representation. <i>Networks and Spatial Economics</i> , 2010, 10, 273-292.	1.6	56
11	Determinants of Changes in Mobility and Travel Patterns in Developing Countries. <i>Transportation Research Record</i> , 2007, 2038, 42-52.	1.9	50
12	Real-world emissions of gaseous pollutants from diesel passenger cars using portable emission measurement systems. <i>Sustainable Cities and Society</i> , 2018, 41, 104-113.	10.4	42
13	Incorporating driving cycle based fuel consumption estimation in green vehicle routing problems. <i>Sustainable Cities and Society</i> , 2018, 40, 214-221.	10.4	41
14	State-of-the art of macroscopic traffic flow modelling. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2013, 5, 158-176.	1.1	36
15	On-board measurement of emissions from freight trucks in urban arterials: Effect of operating conditions, emission standards, and truck size. <i>Atmospheric Environment</i> , 2019, 212, 75-82.	4.1	33
16	A continuous-time linear complementarity system for dynamic user equilibria in single bottleneck traffic flows. <i>Mathematical Programming</i> , 2012, 133, 437-460.	2.4	31
17	Statistical Analysis of Bus Networks in India. <i>PLoS ONE</i> , 2016, 11, e0168478.	2.5	31
18	Dynamic Traffic Equilibrium. <i>Transportation Research Record</i> , 2007, 2029, 1-13.	1.9	27

#	ARTICLE	IF	CITATIONS
19	B-Dynamic: An Efficient Algorithm for Dynamic User Equilibrium Assignment in Activity-Travel Networks1. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 254-269.	9.8	21
20	Real-world emissions of gaseous pollutants from motorcycles on Indian urban arterials. Transportation Research, Part D: Transport and Environment, 2019, 76, 72-84.	6.8	20
21	Dynamics and Variability in Within-Day Mode Choice Decisions. Transportation Research Record, 2006, 1977, 43-52.	1.9	18
22	Injury severity prediction model for two-wheeler crashes at mid-block road sections. International Journal of Crashworthiness, 2022, 27, 328-336.	1.9	18
23	An Adaptive Large Neighborhood Search Approach for Electric Vehicle Routing with Load-Dependent Energy Consumption. Transportation in Developing Economies, 2018, 4, 1.	1.6	17
24	Urban Arterial Travel Time Prediction Using Support Vector Regression. Transportation in Developing Economies, 2018, 4, 1.	1.6	16
25	Training a deep learning architecture for vehicle detection using limited heterogeneous traffic data. , 2018, , .		16
26	Joint Model of Application-Based Ride Hailing Adoption, Intensity of Use, and Intermediate Public Transport Consideration among Workers in Chennai City. Transportation Research Record, 2020, 2674, 152-164.	1.9	15
27	Multi-depot Two-Echelon Fuel Minimizing Routing Problem with Heterogeneous Fleets: Model and Heuristic. Networks and Spatial Economics, 2019, 19, 969-1005.	1.6	14
28	Characteristics of tail pipe (Nitric oxide) and resuspended dust emissions from urban roads " A case study in Delhi city. Journal of Transport and Health, 2020, 17, 100653.	2.2	14
29	Heterogeneous Traffic Flow Modelling Using Macroscopic Continuum Model. Procedia, Social and Behavioral Sciences, 2013, 104, 402-411.	0.5	12
30	Mining bus stops from raw GPS data of bus trajectories. , 2018, , .		12
31	Characteristics of real-world gaseous exhaust emissions from cars in heterogeneous traffic conditions. Transportation Research, Part D: Transport and Environment, 2021, 95, 102855.	6.8	12
32	Incorporating spatial interactions in zero-inflated negative binomial models for freight trip generation. Transportation, 2021, 48, 2335-2356.	4.0	11
33	Developing driving cycles using k-means clustering and determining their optimal duration. Transportation Research Procedia, 2020, 48, 2083-2095.	1.5	11
34	Topological properties of bus transit networks considering demand and service utilization weight measures. Physica A: Statistical Mechanics and Its Applications, 2020, 555, 124683.	2.6	11
35	Grid-based real-time image processing (GRIP) algorithm for heterogeneous traffic. , 2015, , .		8
36	Contagion processes on urban bus networks in Indian cities. Complexity, 2016, 21, 451-458.	1.6	8

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37	Analysis of driving characteristics and estimation of pollutant emissions from intra-city buses. Transportation Research Procedia, 2017, 27, 1211-1218.	1.5	8
38	Discharge Headway Model for Heterogeneous Traffic Conditions. Transportation Research Procedia, 2015, 10, 145-154.	1.5	7
39	An analysis of individuals' usage of bus transit in Bengaluru, India: Disentangling the influence of unfamiliarity with transit from that of subjective perceptions of service quality. Travel Behaviour & Society, 2022, 29, 1-11.	5.0	7
40	Modeling the Evolution of Ride-Hailing Adoption and Usage: A Case Study of the Puget Sound Region. Transportation Research Record, 2021, 2675, 81-97.	1.9	6
41	Simulation of truck congestion in Chennai port. , 2015, , .		5
42	Multi-class traffic flow model based on three dimensional flow concentration surface. Physica A: Statistical Mechanics and Its Applications, 2021, 577, 126060.	2.6	5
43	Numerical Study with Field Data for Macroscopic Continuum Modelling of Indian Traffic. Transportation in Developing Economies, 2019, 5, 1.	1.6	4
44	Field data application of a non-lane-based multi-class traffic flow model. IET Intelligent Transport Systems, 2020, 14, 657-667.	3.0	3
45	Strategies for traffic signal control in Indian cities. , 2015, , .		1
46	Submission to the DTA2012 Special Issue: A Case for Higher-Order Traffic Flow Models in DTA. Networks and Spatial Economics, 2015, 15, 765-790.	1.6	1
47	Accounting for the Influence of Attitudes and Perceptions in Modeling the Adoption of Emerging Transportation Services and Technologies in India. Transportation Research Record, 0, , 036119812210882.	1.9	1
48	Comprehensive Review of Emerging Technologies for Congestion Reduction and Safety. Transportation Research Record, 2009, 2129, 101-110.	1.9	0
49	Preface: special issue on advanced traffic and transportation systems. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2013, 5, 85-86.	1.1	0
50	Analytical Model for Queue Length Estimation at Signalized Intersections from Travel Time. , 2019, , .		0
51	Real-World Emissions from Diesel Passenger Cars During Peak and Off-Peak Periods. Lecture Notes in Civil Engineering, 2020, , 77-84.	0.4	0
52	Temporal Analysis of a Bus Transit Network. Studies in Computational Intelligence, 2020, , 944-954.	0.9	0
53	Automated Incident Location Identification for EMS from Ambulance Geospatial Data. , 2022, , .		0
54	Spatial Seemingly Unrelated Regression Models for Freight Trip Generation by Vehicle Type: Application to the Chennai Metropolitan Area in India. Transportation Research Record, 0, , 036119812110600.	1.9	0