Praveen K Edara

List of Publications by Year
in descending order

		430442	414034
67 papers	1,278 citations	18 h-index	32 g-index
67 all docs	67 docs citations	67 times ranked	1224 citing authors

#	Article	IF	Citations
1	Modeling Mandatory Lane Changing Using Bayes Classifier and Decision Trees. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 647-655.	4.7	148
2	Situation assessment and decision making for lane change assistance using ensemble learning methods. Expert Systems With Applications, 2015, 42, 3875-3882.	4.4	101
3	Traffic Flow Forecasting for Urban Work Zones. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1761-1770.	4.7	97
4	Model of an advance-booking system for highway trips. Transportation Research Part C: Emerging Technologies, 2008, 16, 36-53.	3.9	48
5	Network Scale Travel Time Prediction using Deep Learning. Transportation Research Record, 2018, 2672, 115-123.	1.0	47
6	Design and Operational Performance of Double Crossover Intersection and Diverging Diamond Interchange. Transportation Research Record, 2005, 1912, 31-38.	1.0	42
7	A travel demand management strategy: The downtown space reservation system. European Journal of Operational Research, 2010, 205, 584-594.	3.5	41
8	Development of a Large-Scale Traffic Simulation Model for Hurricane Evacuationâ€"Methodology and Lessons Learned. Natural Hazards Review, 2010, 11, 127-139.	0.8	40
9	Optimizing Freeway Traffic Sensor Locations by Clustering Global-Positioning-System-Derived Speed Patterns. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 738-747.	4.7	35
10	Interdisciplinary Approach to Evacuation Modeling. Natural Hazards Review, 2013, 14, 151-162.	0.8	34
11	Vehicle Speed Characteristics and Alignment Design Consistency for Mountainous Roads. Transportation in Developing Economies, 2016, 2, 1.	0.9	34
12	A multi-perspective dynamic network performance efficiency measurement of an evacuation: A dynamic network-DEA approach. Omega, 2016, 60, 45-59.	3.6	32
13	Performance Analysis of Parallel Flow Intersection and Displaced Left-Turn Intersection Designs. Transportation Research Record, 2010, 2171, 33-43.	1.0	30
14	Statistical Test for 85th and 15th Percentile Speeds with Asymptotic Distribution of Sample Quantiles. Transportation Research Record, 2012, 2279, 47-53.	1.0	30
15	Design and Operational Performance of Double Crossover Intersection and Diverging Diamond Interchange. , 0, .		30
16	Auction-Based Congestion Pricing. Transportation Planning and Technology, 2008, 31, 399-416.	0.9	29
17	Replication of Work Zone Capacity Values in a Simulation Model. Transportation Research Record, 2009, 2130, 138-148.	1.0	24
18	Risk Factors in Work Zone Safety Events: A Naturalistic Driving Study Analysis. Transportation Research Record, 2019, 2673, 379-387.	1.0	24

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19	Placement of Roadside Equipment in Connected Vehicle Environment for Travel Time Estimation. Transportation Research Record, 2013, 2381, 20-27.	1.0	23
20	A genetic fuzzy system for modeling mandatory lane changing. , 2012, , .		22
21	Empirical Evaluation of J-Turn Intersection Performance. Transportation Research Record, 2015, 2486, 11-18.	1.0	19
22	A real-time road pricing system: The case of a two-link parallel network. Computers and Operations Research, 2007, 34, 2-27.	2.4	17
23	A Data Mining Approach to Creating Fundamental Traffic Flow Diagram. Procedia, Social and Behavioral Sciences, 2013, 104, 430-439.	0.5	17
24	Safety Evaluation of Seven of the Earliest Diverging Diamond Interchanges Installed in the United States. Transportation Research Record, 2016, 2583, 25-33.	1.0	17
25	Evaluation of travel demand strategies: a microscopic traffic simulation approach. Transportation, 2010, 37, 549-571.	2.1	16
26	Is Getting an Uber-Lyft from a Sidecar Different from Hailing a Taxi?. Transportation Research Record, 2015, 2536, 60-66.	1.0	15
27	Safety Evaluation of Diverging Diamond Interchanges in Missouri. Transportation Research Record, 2015, 2486, 1-10.	1.0	14
28	When driving on the left side is safe: Safety of the diverging diamond interchange ramp terminals. Accident Analysis and Prevention, 2017, 100, 133-142.	3.0	14
29	Sleep disorders and risk of traffic crashes: A naturalistic driving study analysis. Safety Science, 2021, 140, 105295.	2.6	14
30	Analytical Methods for Deriving Work Zone Capacities from Field Data. Journal of Transportation Engineering, 2012, 138, 809-818.	0.9	13
31	Evaluation of variable advisory speed limits in congested work zones. Journal of Transportation Safety and Security, 2017, 9, 123-145.	1.1	11
32	Immersive Work Zone Inspection Training using Virtual Reality. Transportation Research Record, 2020, 2674, 224-232.	1.0	11
33	Sensitivity of Evacuation Performance Estimates to Evacuee Route Choice Behavior. Transportation Research Record, 2013, 2376, 20-26.	1.0	10
34	HSM calibration factor, calibration function, or jurisdiction-specific safety model â€" A comparative analysis. Journal of Transportation Safety and Security, 2020, 12, 309-328.	1.1	10
35	Methodology to Identify Optimal Placement of Point Detectors for Travel Time Estimation. Journal of Transportation Engineering, 2011, 137, 155-173.	0.9	9
36	Evaluation of Dynamic Message Signs on Rural Freeways: Case Study of a Full Freeway Closure. Journal of Transportation Engineering, 2014, 140, 89-98.	0.9	9

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37	Safety effectiveness and crash cost benefit of red light cameras in Missouri. Traffic Injury Prevention, 2017, 18, 70-76.	0.6	9
38	Highway Space Inventory Control System. , 2005, , 43-62.		9
39	Development of a Deployment Planning Tool for Freeway Safety Service Patrol Programs. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2007, 11, 181-189.	2.6	8
40	A simulation-based methodology to compare the performance of highway space inventory control and ramp metering control. Transportation Planning and Technology, 2011, 34, 705-715.	0.9	8
41	Multivariate regression for estimating driving behavior parameters in work zone simulation to replicate field capacities. Transportation Letters, 2010, 2, 175-186.	1.8	7
42	Programmatic Examination of Missouri Incentive/Disincentive Contracts for Mitigating Work Zone Traffic Impacts. Journal of Construction Engineering and Management - ASCE, 2014, 140, 05013004.	2.0	7
43	Operational Analysis of a Freeway Variable Speed Limit System in St. Louis, Missouri. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2015, 19, 385-398.	2.6	7
44	Site-Specific Safety Analysis of Diverging Diamond Interchange Ramp Terminals. Transportation Research Record, 2016, 2556, 20-28.	1.0	7
45	Road network state estimation using random forest ensemble learning. , 2017, , .		7
46	Traffic Flow Modeling of Diverse Work Zone Activities. Transportation Research Record, 2018, 2672, 23-34.	1.0	7
47	Evaluation of Temporary Ramp Metering for Work Zones. Transportation Research Record, 2013, 2337, 17-24.	1.0	6
48	New Snapshot Generation Protocol for Travel Time Estimation in a Connected Vehicle Environment. Transportation Research Record, 2014, 2424, 1-10.	1.0	6
49	Evaluation of a reservation-based intersection control algorithm for hurricane evacuation with autonomous vehicles. International Journal of Disaster Risk Reduction, 2018, 31, 1152-1158.	1.8	6
50	Driving Simulator Study of J-Turn Acceleration–Deceleration Lane and U-Turn Spacing Configurations. Transportation Research Record, 2017, 2638, 26-34.	1.0	5
51	AReBIC: Autonomous reservation-based intersection control for emergency evacuation. , 2017, , .		5
52	Design Guidance for J-Turns on Rural High-Speed Expressways. Transportation Research Record, 2017, 2618, 69-77.	1.0	5
53	Exploring Contributing Factors of Hazardous Events in Construction Zones Using Naturalistic Driving Study Data. IEEE Transactions on Intelligent Vehicles, 2020, 5, 519-527.	9.4	5
54	Household Hurricane Evacuation Plan Adaptation in Response to Estimated Travel Delay Provided Prior to Departure. Natural Hazards Review, 2022, 23, .	0.8	5

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55	Maintenance of Traffic for Innovative Geometric Design Work Zones. Transportation Research Record, 2016, 2556, 49-64.	1.0	4
56	Enhancing Safety Risk Management with Quantitative Measures. Transportation Research Record, 2017, 2603, 1-12.	1.0	4
57	Predicting hazardous events in work zones using naturalistic driving data. , 2017, , .		4
58	Evaluation of Adding Distance Information to Freeway-Specific Service (Logo) Signs. Journal of Transportation Engineering, 2011, 137, 782-788.	0.9	3
59	Mobility Benefits of Intermediate Crossovers on Contraflow Facilities during Hurricane Evacuation. Transportation Research Record, 2014, 2459, 37-46.	1.0	3
60	Safety Effect of Diverging Diamond Interchanges on Adjacent Roadway Facilities. Transportation Research Record, 2017, 2618, 78-90.	1.0	3
61	Simulator and Field Study of Green Lights on Truck-Mounted Attenuators in Missouri during Mobile Operations. Transportation Research Record, 2019, 2673, 769-778.	1.0	3
62	Safety Evaluation of Sequential Warning Lights in Tapers at Nighttime Work Zones. Transportation Research Record, 2012, 2272, 1-8.	1.0	2
63	Mobile Application Development and Testing for Work Zone Activity Real-Time Data Collection. Transportation Research Record, 2020, 2674, 351-362.	1.0	2
64	Taking the freeway: Inferring evacuee route selection from survey data. Transportation Research Interdisciplinary Perspectives, 2021, 11, 100421.	1.6	2
65	Case Study of an Alternative Merging Sign Design for Temporary Traffic Control in Work Zones. Journal of Transportation Engineering, 2016, 142, 05015005.	0.9	1
66	Airfield Incursion Modeling of United States Hub Airports. Journal of Air Transportation, 2017, 25, 73-86.	1.0	1
67	Optimizing Intermediate Crossovers and Ramp Closures for Hurricane Evacuation. International Journal of Transportation, 2016, 4, 69-80.	0.4	0