Avijit Maji

List of Publications by Year
in descending order

43	645	516710 16	610901 24
papers	citations	h-index	g-index

44	44	44	360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reliability considerations of bituminous pavement design by mechanisticâ€“empirical approach. International Journal of Pavement Engineering, 2008, 9, 19-31.	4.4	56
2	Cross-sectional study of road accidents and related law enforcement efficiency for 10 countries: A gap coherence analysis. Traffic Injury Prevention, 2016, 17, 686-691.	1.4	54
3	Multiâ€objective highway alignment optimization using a genetic algorithm. Journal of Advanced Transportation, 2009, 43, 481-504.	1.7	44
4	A modified motion planning algorithm for horizontal highway alignment development. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 818-831.	9.8	40
5	85th and 98th Percentile Speed Prediction Models of Car, Light, and Heavy Commercial Vehicles for Four-Lane Divided Rural Highways. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	1.4	38
6	Vehicle Speed Characteristics and Alignment Design Consistency for Mountainous Roads. Transportation in Developing Economies, 2016, 2, 1.	1.6	34
7	Effect of horizontal curve geometry on vehicle speed distribution: a four-lane divided highway study. Transportation Letters, 2020, 12, 713-722.	3.1	28
8	OPERATING SPEED PREDICTION MODEL AS A TOOL FOR CONSISTENCY BASED GEOMETRIC DESIGN OF FOUR-LANE DIVIDED HIGHWAYS. Transport, 2019, 34, 425-436.	1.2	28
9	Speed prediction models for car and sports utility vehicle at locations along four-lane median divided horizontal curves. Journal of Modern Transportation, 2018, 26, 278-284.	2.5	27
10	Exploring and exploiting ant colony optimization algorithm for vertical highway alignment development. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1582-1601.	9.8	26
11	Hierarchical clustering analysis framework of mutually exclusive crash causation parameters for regional road safety strategies. International Journal of Injury Control and Safety Promotion, 2018, 25, 257-271.	2.0	23
12	Modeling 85th Percentile Speed Using Spatially Evaluated Free-Flow Vehicles for Consistency-Based Geometric Design. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	1.4	23
13	Implication of repatriating migrant workers on COVID-19 spread and transportation requirements. Transportation Research Interdisciplinary Perspectives, 2020, 7, 100187.	2.7	22
14	Socio-demographic and experience factors affecting driversâ€™ runoff risk along horizontal curves of two-lane rural highway. Journal of Safety Research, 2019, 71, 1-11.	3.6	20
15	Modeling Highway Infrastructure Maintenance Schedules with Budget Constraints. Transportation Research Record, 2007, 1991, 19-26.	1.9	19
16	Effect of Horizontal Curve Geometry on the Maximum Speed Reduction: A Driving Simulator-Based Study. Transportation in Developing Economies, 2019, 5, 1.	1.6	19
17	A Multiobjective Analysis of Impacted Area of Environmentally Preserved Land and Alignment Cost for Sustainable Highway Infrastructure Design. Procedia, Social and Behavioral Sciences, 2011, 20, 966-972.	0.5	14
18	A Multi-Objective Genetic Algorithm for Optimizing Highway Alignments. , 2007, , .		11

#	Article	IF	Citations
19	Modeling overtaking distance and time along two-lane undivided rural highways in mixed traffic condition. Transportation Letters, 2022, 14, 75-83.	3.1	11
20	Multivariate Analysis on Dynamic Car-Following Data of Non-lane-Based Traffic Environments. Transportation in Developing Economies, 2019, 5, 1.	1.6	10
21	Samplingâ€based modified ant colony optimization method for highâ€speed rail alignment development. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1417-1433.	9.8	10
22	Developing probabilistic approach for asphaltic overlay design by considering variability of input parameters. Innovative Infrastructure Solutions, 2016, 1, 1.	2.2	9
23	Operating speed prediction models for tangent sections of two-lane rural highways in Oklahoma State. Transportation Letters, 2020, 12, 130-137.	3.1	9
24	Strategies to Improve the Efficiency of a Multimodal Interdependent Transportation System in Disasters. Procedia, Social and Behavioral Sciences, 2013, 104, 805-814.	0.5	8
25	Performance-based intersection layout under a flyover for heterogeneous traffic. Journal of Modern Transportation, 2015, 23, 119-129.	2.5	8
26	Video Based Data Collection Process for Geometric Design Consistency Evaluation of Four-Lane Median Divided Horizontal Curves. Transportation Research Procedia, 2017, 27, 672-679.	1.5	8
27	Risk Assessment of Horizontal Curves Based on Lateral Acceleration Index: A Driving Simulator-Based Study. Transportation in Developing Economies, 2021, 7, 1.	1.6	8
28	Diverging Diamond Interchange Analysis: Planning Tool. Journal of Transportation Engineering, 2013, 139, 1201-1210.	0.9	7
29	Highway Alignment Optimization Using Cost-Benefit Analysis Under User Equilibrium. International Journal of Operations Research and Information Systems, 2011, 2, 19-33.	1.0	5
30	Questionnaire based study of driversâ€™ error and violation at four-legged signalized intersection. Transportation Letters, 2022, 14, 944-955.	3.1	4
31	Understanding Driver Behavior at Intersection for Mixed Traffic Conditions Using Questionnaire Survey. Lecture Notes in Civil Engineering, 2020, , 647-661.	0.4	4
32	Driversâ€™ ability to distinguish consecutive horizontal curves. Canadian Journal of Civil Engineering, 2022, 49, 1518-1531.	1.3	4
33	Modelling Operating Speeds for Multilane Divided Highways. Lecture Notes in Civil Engineering, 2020, , 367-375.	0.4	3
34	Highway Alignment Optimization Using Cost-Benefit Analysis Under User Equilibrium. , 0, , 313-327.		3
35	Overtaking Distance Models for Passenger Cars in Two-Lane Undivided Rural Highways. Journal of the Institution of Engineers (India): Series A, 2021, 102, 773-782.	1.2	2
36	Optimum Point of Intersection Selection in Horizontal Highway Alignment Design: A Comparative Study Using Path Planner Method and Ant Algorithm. Lecture Notes in Civil Engineering, 2020, , 185-199.	0.4	2

#	Article	IF	Citations
37	Acceleration and Deceleration Behavior in Departing and Approaching Sections of Curve Using Naturalistic Driving Data. Lecture Notes in Civil Engineering, 2020, , 693-704.	0.4	1
38	Analysis of Driversâ€™ Speed Behavior Along Horizontal Curves of Two-Lane Rural Highways Using Driving Simulator. Lecture Notes in Civil Engineering, 2022, , 231-244.	0.4	1
39	PW 1968â€...Development of acceleration and deceleration models for curves on four-lane highways in mountainous terrains. , 2018, , .		0
40	Integrating highway alignment design capability to the Interactive Highway Safety Design Model (IHSDM): a two-lane highway case study. WIT Transactions on the Built Environment, 2006, , .	0.0	0
41	OPTIMIZATION OF HORIZONTAL HIGHWAY ALIGNMENT USING A PATH PLANNER METHOD. , 2017, , .		0
42	Quantitative Framework for Establishing Low-Risk Inter-District Travel Corridors During COVID-19. Transportation Research Record, 2023, 2677, 335-349.	1.9	0
43	BPNN (ANN) Based Operating Speed Models for Horizontal Curves Using Naturalistic Driving Data. Lecture Notes in Civil Engineering, 2022, , 401-410.	0.4	0