

Carlos Sun

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

812
citations

687220

13
h-index

526166

27
g-index

42
all docs

42
docs citations

42
times ranked

867
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	Individual Vehicle Speed Estimation Using Single Loop Inductive Waveforms. Journal of Transportation Engineering, 1999, 125, 531-538.	0.9	51
5	Microsimulation Calibration Using Speed-Flow Relationships. Transportation Research Record, 2008, 2088, 1-9.	1.0	41
6	Statistical Test for 85th and 15th Percentile Speeds with Asymptotic Distribution of Sample Quantiles. Transportation Research Record, 2012, 2279, 47-53.	1.0	30
7	Replication of Work Zone Capacity Values in a Simulation Model. Transportation Research Record, 2009, 2130, 138-148.	1.0	24
8	Risk Factors in Work Zone Safety Events: A Naturalistic Driving Study Analysis. Transportation Research Record, 2019, 2673, 379-387.	1.0	24
9	A genetic fuzzy system for modeling mandatory lane changing. , 2012, , .		22
10	Empirical Evaluation of J-Turn Intersection Performance. Transportation Research Record, 2015, 2486, 11-18.	1.0	19
11	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
12	Heuristic Vehicle Classification Using Inductive Signatures on Freeways. Transportation Research Record, 2000, 1717, 130-136.	1.0	15
13	Is Getting an Uber-Lyft from a Sidecar Different from Hailing a Taxi?. Transportation Research Record, 2015, 2536, 60-66.	1.0	15
14	Safety Evaluation of Diverging Diamond Interchanges in Missouri. Transportation Research Record, 2015, 2486, 1-10.	1.0	14
15	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
16	Analytical Methods for Deriving Work Zone Capacities from Field Data. Journal of Transportation Engineering, 2012, 138, 809-818.	0.9	13
17	Evaluation of variable advisory speed limits in congested work zones. Journal of Transportation Safety and Security, 2017, 9, 123-145.	1.1	11
18	Immersive Work Zone Inspection Training using Virtual Reality. Transportation Research Record, 2020, 2674, 224-232.	1.0	11

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19	Elevated-Risk Work Zone Evaluation of Temporary Rumble Strips. <i>Journal of Transportation Safety and Security</i> , 2011, 3, 157-173.	1.1	10
20	Evaluation of Mobile Work Zone Alarm Systems. <i>Transportation Research Record</i> , 2015, 2485, 42-50.	1.0	10
21	Design and Construction of a Virtual Bicycle Simulator for Evaluating Sustainable Facilities Design. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-10.	0.4	10
22	HSM calibration factor, calibration function, or jurisdiction-specific safety model – A comparative analysis. <i>Journal of Transportation Safety and Security</i> , 2020, 12, 309-328.	1.1	10
23	Evaluation of Dynamic Message Signs on Rural Freeways: Case Study of a Full Freeway Closure. <i>Journal of Transportation Engineering</i> , 2014, 140, 89-98.	0.9	9
24	Safety effectiveness and crash cost benefit of red light cameras in Missouri. <i>Traffic Injury Prevention</i> , 2017, 18, 70-76.	0.6	9
25	Investigation of Alternative Bicycle Pavement Markings with the Use of a Bicycle Simulator. <i>Transportation Research Record</i> , 2017, 2662, 143-151.	1.0	8
26	Programmatic Examination of Missouri Incentive/Disincentive Contracts for Mitigating Work Zone Traffic Impacts. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014, 140, 05013004.	2.0	7
27	Operational Analysis of a Freeway Variable Speed Limit System in St. Louis, Missouri. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2015, 19, 385-398.	2.6	7
28	Site-Specific Safety Analysis of Diverging Diamond Interchange Ramp Terminals. <i>Transportation Research Record</i> , 2016, 2556, 20-28.	1.0	7
29	Traffic Flow Modeling of Diverse Work Zone Activities. <i>Transportation Research Record</i> , 2018, 2672, 23-34.	1.0	7
30	Evaluation of Truck-Mounted Automated Flagger Assistance Devices in Missouri: Case Study. <i>Journal of Transportation Engineering Part A: Systems</i> , 2019, 145, 05019006.	0.8	7
31	Evaluation of Temporary Ramp Metering for Work Zones. <i>Transportation Research Record</i> , 2013, 2337, 17-24.	1.0	6
32	Driving Simulator Study of J-Turn Acceleration/Deceleration Lane and U-Turn Spacing Configurations. <i>Transportation Research Record</i> , 2017, 2638, 26-34.	1.0	5
33	Design Guidance for J-Turns on Rural High-Speed Expressways. <i>Transportation Research Record</i> , 2017, 2618, 69-77.	1.0	5
34	Exploring Contributing Factors of Hazardous Events in Construction Zones Using Naturalistic Driving Study Data. <i>IEEE Transactions on Intelligent Vehicles</i> , 2020, 5, 519-527.	9.4	5
35	Maintenance of Traffic for Innovative Geometric Design Work Zones. <i>Transportation Research Record</i> , 2016, 2556, 49-64.	1.0	4
36	Enhancing Safety Risk Management with Quantitative Measures. <i>Transportation Research Record</i> , 2017, 2603, 1-12.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Evaluation of Airport Wayfinding Accessibility with the Use of a Wheelchair Simulator. Transportation Research Record, 2021, 2675, 52-60.	1.0	4
38	Safety Effect of Diverging Diamond Interchanges on Adjacent Roadway Facilities. Transportation Research Record, 2017, 2618, 78-90.	1.0	3
39	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
40	Safety Evaluation of Sequential Warning Lights in Tapers at Nighttime Work Zones. Transportation Research Record, 2012, 2272, 1-8.	1.0	2
41	Mobile Application Development and Testing for Work Zone Activity Real-Time Data Collection. Transportation Research Record, 2020, 2674, 351-362.	1.0	2
42	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