

Aleksandar Stevanovic

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,373
citations

471371

17
h-index

414303

32
g-index

73
all docs

73
docs citations

73
times ranked

1120
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel model to jointly estimate delay and arrival patterns by using high-resolution signal and detection data. <i>Transportmetrica A: Transport Science</i> , 2024, 20, .	1.3	7
2	Development and Evaluation of Non-Traditional Pedestrian Timing Treatments for Coordinated Signalized Intersections. <i>Transportation Research Record</i> , 2023, 2677, 460-474.	1.0	7
3	Development and Evaluation of Performance Measures for Capacity Utilization of Traffic Signals. <i>Transportation Research Record</i> , 2023, 2677, 1337-1355.	1.0	5
4	Conditional Transit Signal Priority for Connected Transit Vehicles. <i>Transportation Research Record</i> , 2022, 2676, 490-503.	1.0	14
5	Investigating impacts of various operational conditions on fuel consumption and stop penalty at signalized intersections. <i>International Journal of Transportation Science and Technology</i> , 2022, 11, 690-710.	2.0	16
6	Modifying Signal Retiming Procedures and Policies by Utilizing High-Fidelity Modeling with Medium-Resolution Traffic Data. <i>Transportation Research Record</i> , 2022, 2676, 660-684.	1.0	8
7	Impact of Shared Lanes on Performance of the Combined Flexible Lane Assignment and Reservation-based Intersection Control. <i>Transportation Research Record</i> , 2022, 2676, 51-68.	1.0	8
8	Comprehensive Data Analysis Approach for Appropriate Scheduling of Signal Timing Plans. <i>Future Transportation</i> , 2022, 2, 482-500.	1.3	4
9	A fuzzy logic simulation model for controlling an oversaturated diverge diamond interchange and ramp metering system. <i>Mathematics and Computers in Simulation</i> , 2021, 182, 165-181.	2.4	5
10	Fuel Consumption Intersection Control Performance Index. <i>Transportation Research Record</i> , 2021, 2675, 690-702.	1.0	11
11	Assessment of Arterial Signal Timings Based on Various Operational Policies and Optimization Tools. <i>Transportation Research Record</i> , 2021, 2675, 195-210.	1.0	9
12	Multi-Level Conditional Transit Signal Priority in Connected Vehicle Environments. <i>Put I Saobraćaj</i> , 2021, 67, 1-12.	0.0	8
13	Estimating the Impact of High-Fidelity Rainfall Data on Traffic Conditions and Traffic Prediction. <i>Transportation Research Record</i> , 2021, 2675, 1285-1300.	1.0	4
14	Simulation and prediction of spread of COVID-19 in The Republic of Serbia by SEAIHRDS model of disease transmission. <i>Microbial Risk Analysis</i> , 2021, 18, 100161.	1.3	6
15	Impact of Various Operating Conditions on Simulated Emissions-Based Stop Penalty at Signalized Intersections. <i>Sustainability</i> , 2021, 13, 10037.	1.6	11
16	Impact of Accurate Detection of Freeway Traffic Conditions on the Dynamic Pricing: A Case Study of I-95 Express Lanes. <i>Sensors</i> , 2021, 21, 5997.	2.1	3
17	Field-Based Prediction Models for Stop Penalty in Traffic Signal Timing Optimization. <i>Energies</i> , 2021, 14, 7431.	1.6	5
18	Combined Alternate-Direction Lane Assignment and Reservation-Based Intersection Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 1779-1789.	4.7	23

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19	Development of Assessment Tool and Overview of Adaptive Traffic Control Deployments in the U.S. Transportation Research Record, 2020, 2674, 464-480.	1.0	21
20	Evaluation of Alternative Methods for Dynamic I-95 Express Lane Pricing. Transportation Research Record, 2020, 2674, 846-860.	1.0	1
21	Simulation-Based Evaluation of a New Integrated Intersection Control Scheme for Connected Automated Vehicles and Pedestrians. Transportation Research Record, 2020, 2674, 779-793.	1.0	7
22	Impact of conflict resolution parameters on combined alternate-directions lane assignment and reservation-based intersection control. European Transport Research Review, 2020, 12, .	2.3	5
23	Traffic Microsimulation for Flexible Utilization of Urban Roadways. Transportation Research Record, 2019, 2673, 92-104.	1.0	12
24	Speed Estimation of Multiple Moving Objects from a Moving UAV Platform. ISPRS International Journal of Geo-Information, 2019, 8, 259.	1.4	19
25	Estimating Peak-Hour Traffic Profiles for Selection of Appropriate Day-of-Year Signal Timing Plans. Transportation Research Record, 2019, 2673, 199-213.	1.0	4
26	Estimating Pedestrian Impact on Coordination of Urban Corridors. Transportation Research Record, 2019, 2673, 265-280.	1.0	6
27	Smart Intersection Management for Connected and Automated Vehicles and Pedestrians. , 2019, , .		8
28	An automatic traffic density estimation using Single Shot Detection (SSD) and MobileNet-SSD. Physics and Chemistry of the Earth, 2019, 110, 176-184.	1.2	72
29	On development of arterial fundamental diagrams based on surrogate density measures from adaptive traffic control systems utilizing stop-line detection. Transportation Research Part C: Emerging Technologies, 2018, 94, 133-150.	3.9	16
30	Combined Alternate-Direction Lane Assignment and Reservation-based Intersection Control. , 2018, , .		8
31	Evaluation of Multiple Hardware and Software in the Loop Signal Controllers in Simulation Environment. Transportation Research Record, 2018, 2672, 93-106.	1.0	0
32	Analysis of the Electric Vehicles Adoption over the United States. Transportation Research Procedia, 2017, 22, 203-212.	0.8	56
33	Refinement of Performance Measures based on High-Resolution Signal and Detection Data. Transportation Research Procedia, 2017, 22, 372-381.	0.8	2
34	Framework for Quantitative Annual Evaluation of Traffic Signal Systems. Transportation Research Record, 2017, 2619, 20-35.	1.0	2
35	On development of arterial fundamental diagrams based on surrogate density measures from adaptive traffic control systems utilizing stop-line detection. Transportation Research Procedia, 2017, 23, 942-961.	0.8	3
36	Assessment of the Robustness of Signal Timing Plans in an Arterial Corridor Through Seasonal Variation of Traffic Flows. Transportation Research Record, 2017, 2619, 85-94.	1.0	1

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37	Comparison of adaptive traffic control benefits for recurring and non-recurring traffic conditions. IET Intelligent Transport Systems, 2017, 11, 142-151.	1.7	11
38	An Automatic Car Counting System Using OverFeat Framework. Sensors, 2017, 17, 1535.	2.1	30
39	Impact of Green Light Optimized Speed Advisory on Unsignalized Side-Street Traffic. Transportation Research Record, 2016, 2557, 24-32.	1.0	5
40	Evaluation of transportation network reliability during unexpected events with multiple uncertainties. International Journal of Disaster Risk Reduction, 2016, 17, 128-136.	1.8	38
41	Assessment of Level-Of-Service for Freeway Segments Using HCM and Microsimulation Methods. Transportation Research Procedia, 2016, 15, 403-416.	0.8	8
42	Estimating performance of traffic signals based on link travel times. Journal of Advanced Transportation, 2016, 50, 786-801.	0.9	6
43	Policy Improvements for Winter Road Maintenance in South-East Europe. Public Works Management Policy, 2016, 21, 173-195.	0.7	3
44	Web Application for Measuring Travel-Based Time Signal Performance. SpringerBriefs in Computer Science, 2016, , 39-46.	0.2	0
45	Background and Related Work. SpringerBriefs in Computer Science, 2016, , 3-21.	0.2	0
46	Backpressure Traffic Control Algorithms in Field-like Signal Operations. , 2015, , .		4
47	Optimality versus run time for isolated signalized intersections. Transportation Research Part C: Emerging Technologies, 2015, 55, 191-202.	3.9	12
48	Multi-criteria optimization of traffic signals: Mobility, safety, and environment. Transportation Research Part C: Emerging Technologies, 2015, 55, 46-68.	3.9	55
49	Testing Accuracy and Reliability of MAC Readers to Measure Arterial Travel Times. International Journal of Intelligent Transportation Systems Research, 2015, 13, 50-62.	0.6	9
50	Application of Transit Signal Priority for No-Notice Urban Evacuation. Natural Hazards Review, 2014, 15, 167-170.	0.8	5
51	Green Light Optimized Speed Advisory Systems. Transportation Research Record, 2013, 2390, 53-59.	1.0	45
52	Optimization of traffic signal timings based on surrogate measures of safety. Transportation Research Part C: Emerging Technologies, 2013, 32, 159-178.	3.9	61
53	Simulation-Based Planning Framework for Choosing Where to Implement Bus Signal Priority in Mixed-Mode Operations. Transportation Research Record, 2013, 2352, 31-40.	1.0	2
54	Long-Term Benefits of Adaptive Traffic Control under Varying Traffic Flows during Weekday Peak Hours. Transportation Research Record, 2012, 2311, 99-107.	1.0	5

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55	Development and Evaluation of Algorithm for Resolution of Conflicting Transit Signal Priority Requests. Transportation Research Record, 2012, 2311, 167-175.	1.0	26
56	Evaluation of Transit Signal Priority Options for Future Bus Rapid Transit Line in West Valley City, Utah. Transportation Research Record, 2012, 2311, 176-185.	1.0	28
57	Traffic control optimization for multi-modal operations in a large-scale urban network. , 2011, , .		18
58	Evaluating Robustness of Signal Timings for Varying Traffic Flows. Transportation Research Record, 2011, 2259, 141-150.	1.0	12
59	Predictive Priority for Light Rail Transit. Transportation Research Record, 2011, 2259, 168-178.	1.0	20
60	Assessing the accuracy and reliability of freeway traffic monitoring stations using GPS probe vehicle speed data. World Review of Intermodal Transportation Research, 2011, 3, 338.	0.2	2
61	Cross-Evaluation of Signal Timing Optimized by Various Traffic Simulation and Signal Optimization Tools. Transportation Research Record, 2010, 2192, 147-155.	1.0	14
62	35M MAX: the first bus rapid transit system in Salt Lake County. World Review of Intermodal Transportation Research, 2010, 3, 103.	0.2	3
63	Comparative Evaluation of Adaptive Traffic Control System Assessments Through Field and Microsimulation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2010, 14, 109-124.	2.6	19
64	Optimizing Traffic Control to Reduce Fuel Consumption and Vehicular Emissions. Transportation Research Record, 2009, 2128, 105-113.	1.0	156
65	Optimizing Signal Timings from the Field. Transportation Research Record, 2009, 2128, 114-120.	1.0	10
66	Microscopic Modeling of Traffic Signal Operations. Transportation Research Record, 2009, 2128, 143-151.	1.0	22
67	Transportation Infrastructure Maintenance Management: Case Study of a Small Urban City. Journal of Infrastructure Systems, 2009, 15, 120-132.	1.0	15
68	Comparison of Beforeâ€œAfter versus Offâ€œOn Adaptive Traffic Control Evaluations. Transportation Research Record, 2009, 2128, 192-201.	1.0	18
69	Stochastic optimization of traffic control and transit priority settings in VISSIM. Transportation Research Part C: Emerging Technologies, 2008, 16, 332-349.	3.9	133
70	Split-Cycle Offset Optimization Technique and Coordinated Actuated Traffic Control Evaluated through Microsimulation. Transportation Research Record, 2008, 2080, 48-56.	1.0	15
71	Integration of mathematical and physical simulation to calibrate car-following behaviour of unimpaired and impaired drivers. World Review of Intermodal Transportation Research, 2007, 1, 403.	0.2	2
72	VisSim-Based Genetic Algorithm Optimization of Signal Timings. Transportation Research Record, 2007, 2035, 59-68.	1.0	71

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73	Adaptive Traffic Control Systems: Domestic and Foreign State of Practice. , 0, , .		93