

# 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	Optimizing Traffic Control to Reduce Fuel Consumption and Vehicular Emissions. Transportation Research Record, 2009, 2128, 105-113.	1.0	156
2	Stochastic optimization of traffic control and transit priority settings in VISSIM. Transportation Research Part C: Emerging Technologies, 2008, 16, 332-349.	3.9	133
3	Adaptive Traffic Control Systems: Domestic and Foreign State of Practice. , 0, , .		93
4	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
5	VisSim-Based Genetic Algorithm Optimization of Signal Timings. Transportation Research Record, 2007, 2035, 59-68.	1.0	71
6	Optimization of traffic signal timings based on surrogate measures of safety. Transportation Research Part C: Emerging Technologies, 2013, 32, 159-178.	3.9	61
7	Analysis of the Electric Vehicles Adoption over the United States. Transportation Research Procedia, 2017, 22, 203-212.	0.8	56
8	Multi-criteria optimization of traffic signals: Mobility, safety, and environment. Transportation Research Part C: Emerging Technologies, 2015, 55, 46-68.	3.9	55
9	Green Light Optimized Speed Advisory Systems. Transportation Research Record, 2013, 2390, 53-59.	1.0	45
10	Evaluation of transportation network reliability during unexpected events with multiple uncertainties. International Journal of Disaster Risk Reduction, 2016, 17, 128-136.	1.8	38
11	An Automatic Car Counting System Using OverFeat Framework. Sensors, 2017, 17, 1535.	2.1	30
12	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
13	Development and Evaluation of Algorithm for Resolution of Conflicting Transit Signal Priority Requests. Transportation Research Record, 2012, 2311, 167-175.	1.0	26
14	Combined Alternate-Direction Lane Assignment and Reservation-Based Intersection Control. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1779-1789.	4.7	23
15	Microscopic Modeling of Traffic Signal Operations. Transportation Research Record, 2009, 2128, 143-151.	1.0	22
16	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
17	Predictive Priority for Light Rail Transit. Transportation Research Record, 2011, 2259, 168-178.	1.0	20
18	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

#	ARTICLE	IF	CITATIONS
19	Speed Estimation of Multiple Moving Objects from a Moving UAV Platform. ISPRS International Journal of Geo-Information, 2019, 8, 259.	1.4	19
20	Comparison of Beforeâ€“After versus Offâ€“On Adaptive Traffic Control Evaluations. Transportation Research Record, 2009, 2128, 192-201.	1.0	18
21	Traffic control optimization for multi-modal operations in a large-scale urban network. , 2011, , .		18
22	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
23	Investigating impacts of various operational conditions on fuel consumption and stop penalty at signalized intersections. International Journal of Transportation Science and Technology, 2022, 11, 690-710.	2.0	16
24	Split-Cycle Offset Optimization Technique and Coordinated Actuated Traffic Control Evaluated through Microsimulation. Transportation Research Record, 2008, 2080, 48-56.	1.0	15
25	Transportation Infrastructure Maintenance Management: Case Study of a Small Urban City. Journal of Infrastructure Systems, 2009, 15, 120-132.	1.0	15
26	Cross-Evaluation of Signal Timing Optimized by Various Traffic Simulation and Signal Optimization Tools. Transportation Research Record, 2010, 2192, 147-155.	1.0	14
27	Conditional Transit Signal Priority for Connected Transit Vehicles. Transportation Research Record, 2022, 2676, 490-503.	1.0	14
28	Evaluating Robustness of Signal Timings for Varying Traffic Flows. Transportation Research Record, 2011, 2259, 141-150.	1.0	12
29	Optimality versus run time for isolated signalized intersections. Transportation Research Part C: Emerging Technologies, 2015, 55, 191-202.	3.9	12
30	Traffic Microsimulation for Flexible Utilization of Urban Roadways. Transportation Research Record, 2019, 2673, 92-104.	1.0	12
31	Comparison of adaptive traffic control benefits for recurring and nonâ€“recurring traffic conditions. IET Intelligent Transport Systems, 2017, 11, 142-151.	1.7	11
32	Fuel Consumption Intersection Control Performance Index. Transportation Research Record, 2021, 2675, 690-702.	1.0	11
33	Impact of Various Operating Conditions on Simulated Emissions-Based Stop Penalty at Signalized Intersections. Sustainability, 2021, 13, 10037.	1.6	11
34	Optimizing Signal Timings from the Field. Transportation Research Record, 2009, 2128, 114-120.	1.0	10
35	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
36	Assessment of Arterial Signal Timings Based on Various Operational Policies and Optimization Tools. Transportation Research Record, 2021, 2675, 195-210.	1.0	9

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37	Assessment of Level-Of-Service for Freeway Segments Using HCM and Microsimulation Methods. Transportation Research Procedia, 2016, 15, 403-416.	0.8	8
38	Combined Alternate-Direction Lane Assignment and Reservation-based Intersection Control. , 2018, , .		8
39	Smart Intersection Management for Connected and Automated Vehicles and Pedestrians. , 2019, , .		8
40	Multi-Level Conditional Transit Signal Priority in Connected Vehicle Environments. Put I Saobraćaj, 2021, 67, 1-12.	0.0	8
41	Modifying Signal Retiming Procedures and Policies by Utilizing High-Fidelity Modeling with Medium-Resolution Traffic Data. Transportation Research Record, 2022, 2676, 660-684.	1.0	8
42	Impact of Shared Lanes on Performance of the Combined Flexible Lane Assignment and Reservation-based Intersection Control. Transportation Research Record, 2022, 2676, 51-68.	1.0	8
43	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
44	A novel model to jointly estimate delay and arrival patterns by using high-resolution signal and detection data. Transportmetrica A: Transport Science, 2024, 20, .	1.3	7
45	Development and Evaluation of Non-Traditional Pedestrian Timing Treatments for Coordinated Signalized Intersections. Transportation Research Record, 2023, 2677, 460-474.	1.0	7
46	Estimating performance of traffic signals based on link travel times. Journal of Advanced Transportation, 2016, 50, 786-801.	0.9	6
47	Estimating Pedestrian Impact on Coordination of Urban Corridors. Transportation Research Record, 2019, 2673, 265-280.	1.0	6
48	Simulation and prediction of spread of COVID-19 in The Republic of Serbia by SEAIHRDS model of disease transmission. Microbial Risk Analysis, 2021, 18, 100161.	1.3	6
49	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
50	Application of Transit Signal Priority for No-Notice Urban Evacuation. Natural Hazards Review, 2014, 15, 167-170.	0.8	5
51	Impact of Green Light Optimized Speed Advisory on Unsignalized Side-Street Traffic. Transportation Research Record, 2016, 2557, 24-32.	1.0	5
52	A fuzzy logic simulation model for controlling an oversaturated diverge diamond interchange and ramp metering system. Mathematics and Computers in Simulation, 2021, 182, 165-181.	2.4	5
53	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
54	Field-Based Prediction Models for Stop Penalty in Traffic Signal Timing Optimization. Energies, 2021, 14, 7431.	1.6	5

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55	Development and Evaluation of Performance Measures for Capacity Utilization of Traffic Signals. Transportation Research Record, 2023, 2677, 1337-1355.	1.0	5
56	Backpressure Traffic Control Algorithms in Field-like Signal Operations. , 2015, , .		4
57	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
58	Estimating the Impact of High-Fidelity Rainfall Data on Traffic Conditions and Traffic Prediction. Transportation Research Record, 2021, 2675, 1285-1300.	1.0	4
59	Comprehensive Data Analysis Approach for Appropriate Scheduling of Signal Timing Plans. Future Transportation, 2022, 2, 482-500.	1.3	4
60	35M MAX: the first bus rapid transit system in Salt Lake County. World Review of Intermodal Transportation Research, 2010, 3, 103.	0.2	3
61	Policy Improvements for Winter Road Maintenance in South-East Europe. Public Works Management Policy, 2016, 21, 173-195.	0.7	3
62	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
63	Impact of Accurate Detection of Freeway Traffic Conditions on the Dynamic Pricing: A Case Study of I-95 Express Lanes. Sensors, 2021, 21, 5997.	2.1	3
64	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
65	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
66	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
67	Refinement of Performance Measures based on High-Resolution Signal and Detection Data. Transportation Research Procedia, 2017, 22, 372-381.	0.8	2
68	Framework for Quantitative Annual Evaluation of Traffic Signal Systems. Transportation Research Record, 2017, 2619, 20-35.	1.0	2
69	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
70	Evaluation of Alternative Methods for Dynamic I-95 Express Lane Pricing. Transportation Research Record, 2020, 2674, 846-860.	1.0	1
71	Evaluation of Multiple Hardware and Software in the Loop Signal Controllers in Simulation Environment. Transportation Research Record, 2018, 2672, 93-106.	1.0	0
72	Web Application for Measuring Travel-Based Time Signal Performance. SpringerBriefs in Computer Science, 2016, , 39-46.	0.2	0

#	ARTICLE	IF	CITATIONS
73	Background and Related Work. SpringerBriefs in Computer Science, 2016, , 3-21.	0.2	0