

# Robert L Bertini

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

1,726  
citations

361296

20  
h-index

302012

39  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1116  
citing authors

#	ARTICLE	IF	CITATIONS
1	Some traffic features at freeway bottlenecks. Transportation Research Part B: Methodological, 1999, 33, 25-42.	2.8	421
2	Empirical Study of Traffic Features at a Freeway Lane Drop. Journal of Transportation Engineering, 2005, 131, 397-407.	0.9	122
3	Using Travel Time Reliability Measures to Improve Regional Transportation Planning and Operations. Transportation Research Record, 2008, 2046, 1-10.	1.0	110
4	Transit Buses as Traffic Probes: Use of Geolocation Data for Empirical Evaluation. Transportation Research Record, 2004, 1870, 35-45.	1.0	82
5	Modeling Transit Trip Time Using Archived Bus Dispatch System Data. Journal of Transportation Engineering, 2004, 130, 56-67.	0.9	70
6	Generating Transit Performance Measures with Archived Data. Transportation Research Record, 2003, 1841, 109-119.	1.0	64
7	Empirical Measurement of Freeway Oscillation Characteristics. Transportation Research Record, 2008, 2088, 57-67.	1.0	52
8	Traffic Management Effects of Variable Speed Limit System on a German Autobahn. Transportation Research Record, 2013, 2380, 48-60.	1.0	39
9	Real-time bus route state forecasting using particle filter and mesoscopic modeling. Transportation Research Part C: Emerging Technologies, 2015, 61, 121-140.	3.9	39
10	Analysis of Transit Signal Priority Using Archived TriMet Bus Dispatch System Data. Transportation Research Record, 2005, 1925, 156-166.	1.0	37
11	Motorway traffic parameter estimation from mobile phone counts. European Journal of Operational Research, 2006, 175, 1435-1446.	3.5	34
12	Beyond Generating Transit Performance Measures. Transportation Research Record, 2009, 2111, 158-168.	1.0	32
13	Experience Implementing a User Service for Archived Intelligent Transportation Systems Data. , 0, .		31
14	Prototype for Data Fusion Using Stationary and Mobile Data. Transportation Research Record, 2009, 2099, 102-112.	1.0	28
15	Dynamics of Variable Speed Limit System Surrounding Bottleneck on German Autobahn. Transportation Research Record, 2006, 1978, 149-159.	1.0	27
16	A Theoretical Framework for Traffic Speed Estimation by Fusing Low-Resolution Probe Vehicle Data. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 747-756.	4.7	26
17	Trajectory Optimization for a Connected Automated Traffic Stream: Comparison Between an Exact Model and Fast Heuristics. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2969-2978.	4.7	25
18	Assessing a Model for Optimal Bus Stop Spacing with High-Resolution Archived Stop-Level Data. Transportation Research Record, 2009, 2111, 24-32.	1.0	23

#	ARTICLE	IF	CITATIONS
19	Analysis of Transit Signal Priority Using Archived TriMet Bus Dispatch System Data. Transportation Research Record, 2005, 1925, 156-166.	1.0	22
20	Some observed queue discharge features at a freeway bottleneck downstream of a merge. Transportation Research, Part A: Policy and Practice, 2002, 36, 683-697.	2.0	21
21	Impacts of Sensor Spacing on Accurate Freeway Travel Time Estimation for Traveler Information. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2009, 13, 97-110.	2.6	21
22	Techniques for Validating an Automatic Bottleneck Detection Tool Using Archived Freeway Sensor Data. Transportation Research Record, 2010, 2160, 87-95.	1.0	21
23	Use of Performance Measurement System Data to Diagnose Freeway Bottleneck Locations Empirically in Orange County, California. Transportation Research Record, 2005, 1925, 48-57.	1.0	20
24	Quantifying the joint impacts of stop locations, signalized intersections, and traffic conditions on bus travel time. Public Transport, 2015, 7, 391-408.	1.7	20
25	Travel time estimation using NiagaraST and latte. , 2007, , .		19
26	Evaluating Benefits of Systemwide Adaptive Ramp-Metering Strategy in Portland, Oregon. Transportation Research Record, 2007, 2012, 47-56.	1.0	19
27	Experience Implementing a User Service for Archived Intelligent Transportation Systems Data. Transportation Research Record, 2005, 1917, 90-99.	1.0	18
28	Adding Green Performance Metrics to a Transportation Data Archive. Transportation Research Record, 2009, 2121, 30-40.	1.0	18
29	Use of Performance Measurement System Data to Diagnose Freeway Bottleneck Locations Empirically in Orange County, California. , 0, .		18
30	Toward Understanding and Reducing Errors in Real-Time Estimation of Travel Times. Transportation Research Record, 2008, 2049, 21-28.	1.0	17
31	Comparison of Algorithms for Systematic Tracking of Patterns of Traffic Congestion on Freeways in Portland, Oregon. Transportation Research Record, 2010, 2178, 101-110.	1.0	17
32	Freeway Sensor Spacing and Probe Vehicle Penetration. Transportation Research Record, 2010, 2178, 67-78.	1.0	16
33	Empirical Analysis of Traffic Sensor Data Surrounding a Bottleneck on a German Autobahn. Transportation Research Record, 2005, 1934, 96-107.	1.0	12
34	Perspectives on Transit: Potential Benefits of Visualizing Transit Data. Transportation Research Record, 2016, 2544, 90-101.	1.0	12
35	Congestion and its Extent. , 2005, , 11-38.		10
36	Empirical evaluation of real-time traffic information for in-vehicle navigation and the variable speed limit system. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 499-512.	2.6	10

#	ARTICLE	IF	CITATIONS
37	Analyzing transportation network performance during emergency evacuations: Evidence from Hurricane Irma. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 95, 102841.	3.2	10
38	Detecting Signals of Bottleneck Activation for Freeway Operations and Control. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2005, 9, 35-45.	2.6	9
39	Empirical Evaluation of Transit Signal Priority. <i>Transportation Research Record</i> , 2015, 2488, 20-31.	1.0	9
40	Using Hardware-in-the-Loop Simulation to Evaluate Signal Control Strategies for Transit Signal Priority. <i>Transportation Research Record</i> , 2005, 1925, 227-234.	1.0	9
41	Optimal Bus Stop Spacing for Minimizing Transit Operation Cost. , 2008, , .		8
42	Exploring Applications of Second-Generation Archived Transit Data for Estimating Performance Measures and Arterial Travel Speeds. <i>Transportation Research Record</i> , 2015, 2538, 44-53.	1.0	8
43	Preparing a Roadmap for Connected Vehicle/Cooperative Systems Deployment Scenarios: Case Study of the State of Oregon, USA. <i>Transportation Research Procedia</i> , 2016, 15, 447-458.	0.8	8
44	Smart Intersection Management for Connected and Automated Vehicles and Pedestrians. , 2019, , .		8
45	Effects of Temporal Data Aggregation on Performance Measures and Other Intelligent Transportation Systems Applications. <i>Transportation Research Record</i> , 2010, 2160, 96-106.	1.0	7
46	Assessing State Department of Transportation Readiness for Connected Vehicle“Cooperative Systems Deployment: Oregon Case Study. <i>Transportation Research Record</i> , 2016, 2559, 24-34.	1.0	7
47	Combining Climate, Crash, and Highway Data for Improved Ranking of Speed and Winter-Weather Related Crash Locations in Oregon. <i>Journal of Transportation Engineering</i> , 2008, 134, 287-296.	0.9	6
48	Assessing the Harmonization Potential of Variable Speed Limit Systems. <i>Transportation Research Record</i> , 2016, 2554, 129-138.	1.0	6
49	Comparative Analysis of Real-time Traffic Information for Navigation and the Variable Speed Limit System. <i>IFAC-PapersOnLine</i> , 2016, 49, 471-476.	0.5	6
50	Using Custom Transportation Data Collection Software with Handheld Computers for Education, Research, and Practice. , 0, .		6
51	Real-time Bus Route State Forecasting Using Particle Filter: An Empirical Data Application. <i>Transportation Research Procedia</i> , 2015, 6, 434-447.	0.8	5
52	Validating Dynamic Message Sign Freeway Travel Time Messages with Ground Truth Geospatial Data. <i>Transportation Research Record</i> , 2006, 1959, 19-27.	1.0	4
53	Toward Optimal Sensor Density for Improved Freeway Travel Time Estimation and Traveler Information. , 2007, , .		4
54	Evolution and Usage of the Portal Data Archive. <i>Transportation Research Record</i> , 2015, 2527, 18-28.	1.0	4

#	ARTICLE	IF	CITATIONS
55	Evaluation of Driver Compliance to Displayed Variable Advisory Speed Limit Systems: Comparison between Germany and the U.S.. Transportation Research Procedia, 2016, 15, 640-651.	0.8	4
56	TECHNOLOGY CONSIDERATIONS FOR THE IMPLEMENTATION OF A STATEWIDE ROAD USER FEE SYSTEM. Research in Transportation Economics, 2004, 8, 337-361.	2.2	3
57	Measurement and Assessment of Driver Compliance with Variable Speed Limit Systems: Comparison of the United States and Germany. Transportation Research Record, 2016, 2554, 77-88.	1.0	3
58	Improving Arterial Performance Measurement Using Traffic Signal System Data. , 2007, , .		2
59	Toward Management and Imputation of Unavailable Data in Online Advanced Traveler Information Systems. , 2007, , .		2
60	Diagnosing a Freeway Bottleneck in Portland, Oregon (USA) Using Archived Sensor Data. , 2008, , .		2
61	Benefitâ€‘Cost Evaluation Method for Transit Stop Removal. Transportation Research Record, 2014, 2415, 59-64.	1.0	2
62	Preparing Oregon for Connected Vehicle Deployment: Application Prioritization Process. Transportation Research Record, 2017, 2615, 1-10.	1.0	2
63	Examining Freeway Bottleneck Features During a Mass Evacuation. Transportation Research Record, 2021, 2675, 547-557.	1.0	2
64	Multicity Investigation of the Effect of Holidays on Bikeshare System Ridership. Transportation Research Record, 2021, 2675, 404-423.	1.0	2
65	Lessons from Developing an Archived Data User Service in Portland, Oregon: Who Is Using It?. , 2007, , .		1
66	Capturing the Benefits of a Variable Advisory Speed System in Portland, Oregon: Empirical Before and After Evaluation. Transportation Research Record, 2016, 2559, 7-16.	1.0	1
67	Development of a Transportation System Simulation Manual Framework: From Theory to Practice. Transportation Research Record, 2016, 2561, 45-52.	1.0	1
68	Transportmetrica B Special Issue on Traffic Flow Theory. Transportmetrica B, 2017, 5, 128-128.	1.4	1
69	A Contemporary Approach for Visualizing Temporal and Spatial Urban Freight Movement by Leveraging Mobility Portal Data. , 2020, , .		1
70	Online Tool for Delivering Research Results. Transportation Research Record, 2007, 2009, 113-120.	1.0	0
71	Toward Assessing State Department of Transportation Readiness for Connected Vehicle/Cooperative Systems Deployment Scenarios: An Oregon Case Study. Advances in Intelligent Systems and Computing, 2017, , 19-20.	0.5	0
72	Challenges and Opportunities in Transportation Data. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Data-Driven Computation of State-Dependent Passenger Car Equivalency for Multiple Truck Lengths. Transportation Research Record, 0, , 036119812210920.	1.0	0