

Hans van Lint

List of Publications by Year in descending order

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92
papers

2,995
citations

172386

29
h-index

175177

52
g-index

96
all docs

96
docs citations

96
times ranked

2120
citing authors

#	ARTICLE	IF	CITATIONS
1	Freeway Travel Time Prediction with State-Space Neural Networks: Modeling State-Space Dynamics with Recurrent Neural Networks. <i>Transportation Research Record</i> , 2002, 1811, 30-39.	1.0	189
2	Real-Time Lagrangian Traffic State Estimator for Freeways. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 59-70.	4.7	166
3	Online Learning Solutions for Freeway Travel Time Prediction. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2008, 9, 38-47.	4.7	160
4	Genealogy of traffic flow models. <i>EURO Journal on Transportation and Logistics</i> , 2015, 4, 445-473.	1.3	157
5	Routing Strategies Based on Macroscopic Fundamental Diagram. <i>Transportation Research Record</i> , 2012, 2315, 1-10.	1.0	142
6	Prediction Intervals to Account for Uncertainties in Travel Time Prediction. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2011, 12, 537-547.	4.7	139
7	Improving a Travel-Time Estimation Algorithm by Using Dual Loop Detectors. <i>Transportation Research Record</i> , 2003, 1855, 41-48.	1.0	124
8	Will Automated Vehicles Negatively Impact Traffic Flow?. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-17.	0.9	117
9	Localized Extended Kalman Filter for Scalable Real-Time Traffic State Estimation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 385-394.	4.7	100
10	Fastlane. <i>Transportation Research Record</i> , 2008, 2088, 177-187.	1.0	98
11	Network-Wide Traffic State Estimation Using Loop Detector and Floating Car Data. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2014, 18, 41-50.	2.6	88
12	Towards a generic benchmarking platform for origin-destination flows estimation/updates algorithms: Design, demonstration and validation. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 66, 79-98.	3.9	83
13	Revealing the day-to-day regularity of urban congestion patterns with 3D speed maps. <i>Scientific Reports</i> , 2017, 7, 14029.	1.6	64
14	Empirical Evaluation of New Robust Travel Time Estimation Algorithms. <i>Transportation Research Record</i> , 2010, 2160, 50-59.	1.0	59
15	Traffic dynamics: Its impact on the Macroscopic Fundamental Diagram. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 438, 236-250.	1.2	58
16	Monitoring and Predicting Freeway Travel Time Reliability: Using Width and Skew of Day-to-Day Travel Time Distribution. <i>Transportation Research Record</i> , 2005, 1917, 54-62.	1.0	58
17	Feature extraction and clustering analysis of highway congestion. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 100, 238-258.	3.9	56
18	Impact of Traffic Flow on Travel Time Variability of Freeway Corridors. <i>Transportation Research Record</i> , 2007, 1993, 59-66.	1.0	54

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19	Bayesian Combination of Travel Time Prediction Models. Transportation Research Record, 2008, 2064, 73-80.	1.0	52
20	Spatiotemporal Partitioning of Transportation Network Using Travel Time Data. Transportation Research Record, 2017, 2623, 98-107.	1.0	48
21	A generic data assimilation framework for vehicle trajectory reconstruction on signalized urban arterials using particle filters. Transportation Research Part C: Emerging Technologies, 2018, 92, 364-391.	3.9	47
22	A data driven method for OD matrix estimation. Transportation Research Part C: Emerging Technologies, 2020, 113, 38-56.	3.9	47
23	A data driven method for OD matrix estimation. Transportation Research Procedia, 2019, 38, 139-159.	0.8	45
24	Predicting Urban Arterial Travel Time with State-Space Neural Networks and Kalman Filters. Transportation Research Record, 2006, 1968, 99-108.	1.0	44
25	Efficient real time OD matrix estimation based on Principal Component Analysis. , 2012, , .		42
26	Application of Principal Component Analysis to Predict Dynamic Origin-Destination Matrices. Transportation Research Record, 2012, 2283, 81-89.	1.0	41
27	Tokyo Virtual Living Lab: Designing Smart Cities Based on the 3D Internet. IEEE Internet Computing, 2013, 17, 30-38.	3.2	36
28	Modeling travel time reliability of freeways using risk assessment techniques. Transportation Research, Part A: Policy and Practice, 2012, 46, 1528-1540.	2.0	34
29	Multistep traffic forecasting by dynamic graph convolution: Interpretations of real-time spatial correlations. Transportation Research Part C: Emerging Technologies, 2021, 128, 103185.	3.9	31
30	Lagrangian Formulation of Multiclass Kinematic Wave Model. Transportation Research Record, 2010, 2188, 29-36.	1.0	30
31	Constructing Transit Origin-Destination Matrices with Spatial Clustering. Transportation Research Record, 2017, 2652, 39-49.	1.0	30
32	Introduction to the Special Issue on Emergent Cooperative Technologies in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1-5.	4.7	27
33	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
34	Discontinuities in the Lagrangian formulation of the kinematic wave model. Transportation Research Part C: Emerging Technologies, 2013, 34, 148-161.	3.9	25
35	A Heuristics-Based Cost Model for Scientific Workflow Scheduling in Cloud. Computers, Materials and Continua, 2021, 67, 3265-3282.	1.5	24
36	Macroscopic Modeling Framework Unifying Kinematic Wave Modeling and Three-Phase Traffic Theory. Transportation Research Record, 2008, 2088, 102-108.	1.0	23

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37	Mesoscopic Traffic State Estimation based on a Variational Formulation of the LWR Model in Lagrangian-space Coordinates and Kalman Filter. <i>Transportation Research Procedia</i> , 2015, 10, 82-92.	0.8	22
38	Anisotropy in generic multi-class traffic flow models. <i>Transportmetrica A: Transport Science</i> , 2013, 9, 451-472.	1.3	21
39	Constructing Spatiotemporal Load Profiles of Transit Vehicles with Multiple Data Sources. <i>Transportation Research Record</i> , 2018, 2672, 175-186.	1.0	19
40	Getting the Human Factor into Traffic Flow Models: New Open-Source Design to Simulate Next Generation of Traffic Operations. <i>Transportation Research Record</i> , 2016, 2561, 25-33.	1.0	18
41	Integrating network science and public transport accessibility analysis for comparative assessment. <i>Journal of Transport Geography</i> , 2019, 80, 102505.	2.3	18
42	Can passenger flow distribution be estimated solely based on network properties in public transport systems?. <i>Transportation</i> , 2020, 47, 2757-2776.	2.1	18
43	Bayesian Training and Committees of State-Space Neural Networks for Online Travel Time Prediction. <i>Transportation Research Record</i> , 2009, 2105, 118-126.	1.0	17
44	Modelling growth principles of metropolitan public transport networks. <i>Journal of Transport Geography</i> , 2020, 82, 102567.	2.3	17
45	Two fast implementations of the Adaptive Smoothing Method used in highway traffic state estimation. , 2010, , .		16
46	Evaluating Traffic Efficiency and Safety by Varying Truck Platoon Characteristics in a Critical Traffic Situation. <i>Transportation Research Record</i> , 2020, 2674, 525-547.	1.0	16
47	State Space Neural Networks for Freeway Travel Time Prediction. <i>Lecture Notes in Computer Science</i> , 2002, , 1043-1048.	1.0	16
48	Short-term prediction of outbound truck traffic from the exchange of information in logistics hubs: A case study for the port of Rotterdam. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 127, 103111.	3.9	14
49	Analysing the impact of COVID-19 risk perceptions on route choice behaviour in train networks. <i>PLoS ONE</i> , 2022, 17, e0264805.	1.1	14
50	Piecewise Inverse Speed Correction by Using Individual Travel Times. <i>Transportation Research Record</i> , 2008, 2049, 92-102.	1.0	12
51	Performance evaluation of surrogate measures of safety with naturalistic driving data. <i>Accident Analysis and Prevention</i> , 2021, 162, 106403.	3.0	12
52	Investigating Potential Transit Ridership by Fusing Smartcard and Global System for Mobile Communications Data. <i>Transportation Research Record</i> , 2017, 2652, 50-58.	1.0	12
53	Multiscale Traffic Flow Model Based on the Mesoscopic Lighthillâ€™Whitham and Richards Models. <i>Transportation Research Record</i> , 2015, 2491, 98-106.	1.0	10
54	Multi-class ramp metering: Concepts and initial results. , 2011, , .		9

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55	Design of Open Source Framework for Traffic and Travel Simulation. Transportation Research Record, 2012, 2291, 44-52.	1.0	9
56	Systematic Framework for Assessing Traffic Measures and Policies on Reliability of Traffic Operations and Travel Time. Transportation Research Record, 2012, 2302, 92-101.	1.0	9
57	Traffic Congestion Pattern Classification Using Multiclass Active Shape Models. Transportation Research Record, 2017, 2645, 94-103.	1.0	9
58	On Evaluating Floating Car Data Quality for Knowledge Discovery. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3749-3760.	4.7	9
59	Mapping the photovoltaic potential of the roads including the effect of traffic. Renewable Energy, 2022, 182, 427-442.	4.3	9
60	Macroscopic Travel Time Reliability Diagrams for Freeway Networks. Transportation Research Record, 2013, 2396, 19-27.	1.0	8
61	Relationship between Application Scale and Maximum Time Latency in Intelligent Transport Solutions. Transportation Research Record, 2013, 2380, 1-9.	1.0	8
62	Estimation of metro network passenger delay from individual trajectories. Transportation Research Part C: Emerging Technologies, 2020, 117, 102704.	3.9	8
63	Unsupervised approach towards analysing the public transport bunching swings formation phenomenon. Public Transport, 2021, 13, 533-555.	1.7	8
64	Vehicle Class-Specific Route Guidance of Freeway Traffic by Model-Predictive Control. Transportation Research Record, 2012, 2324, 53-62.	1.0	7
65	Understanding Travel Behavior through Travel Happiness. Transportation Research Record, 2019, 2673, 889-897.	1.0	6
66	Policy-Based, Service Level-Oriented Route Guidance in Road Networks. Transportation Research Record, 2012, 2278, 115-124.	1.0	5
67	Categorizing Merging and Diverging Strategies of Truck Drivers at Motorway Ramps and Weaving Sections using a Trajectory Dataset. Transportation Research Record, 2020, 2674, 855-866.	1.0	5
68	Optimization of Charging Strategies for Battery Electric Vehicles Under Uncertainty. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 760-776.	4.7	5
69	Evaluating the impact of waiting time reliability on route choice using smart card data. Transportmetrica A: Transport Science, 2023, 19, .	1.3	5
70	TRAFFIC NETWORK STATE ESTIMATION USING EXTENDED KALMAN FILTERING AND DSMART. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 37-42.	0.4	4
71	Heuristic Coarsening for Generating Multiscale Transport Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2240-2253.	4.7	4
72	Exploring the Effects of Perception Errors and Anticipation Strategies on Traffic Accidents - A Simulation Study. Advances in Intelligent Systems and Computing, 2018, , 249-261.	0.5	4

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73	Modeling Traffic Flow Operation in Multilane and Multiclass Urban Networks. Transportation Research Record, 2005, 1923, 73-81.	1.0	4
74	A Multi-Class Lane-Changing Advisory System for Freeway Merging Sections Using Cooperative ITS. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15121-15132.	4.7	3
75	Evolution of labour supply in ridesourcing. Transportmetrica B, 2022, 10, 599-626.	1.4	3
76	Estimate the limit of predictability in short-term traffic forecasting: An entropy-based approach. Transportation Research Part C: Emerging Technologies, 2022, 138, 103607.	3.9	3
77	Sensitivity Analysis to Define Guidelines for Predictive Control Design. Transportation Research Record, 2020, 2674, 385-398.	1.0	2
78	Estimating the Safety Effects of Congestion Warning Systems using Carriageway Aggregate Data. Transportation Research Record, 2020, 2674, 278-288.	1.0	2
79	A Multi-class Lane-changing Advisory System for Freeway Merging Sections. IFAC-PapersOnLine, 2021, 54, 93-98.	0.5	2
80	Fusing Heterogeneous and Unreliable Data from Traffic Sensors. Studies in Computational Intelligence, 2010, , 511-545.	0.7	2
81	An Automated Detection Framework for Multiple Highway Bottleneck Activations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5678-5692.	4.7	2
82	URBAN TRAVEL TIME PREDICTION BASED ON QUEUE ESTIMATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 484-490.	0.4	1
83	Efficient Methodology for Benchmarking Dynamic Origin-Destination Demand Estimation Methods. Transportation Research Record, 2011, 2263, 35-44.	1.0	1
84	Estimation of Multiclass and Multilane Counts from Aggregate Loop Detector Data. Transportation Research Record, 2012, 2308, 120-127.	1.0	1
85	Multimodal Data Fusion for Big Events. Transportation Research Record, 2016, 2594, 118-126.	1.0	1
86	A compact and scalable representation of network traffic dynamics using shapes and its applications. Transportation Research Part C: Emerging Technologies, 2020, 121, 102850.	3.9	1
87	Modeling monetary costs of multi-class traffic flow - Application to the dynamic management of truck lanes. , 2012, , .		0
88	Exploring urban traffic flow dynamics. , 2013, , .		0
89	2013 IEEE Intelligent Transportation Systems Conference - Report: Future of Transport Discussed in Stately Dutch Heritage Site [Conference Report]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 76-79.	2.6	0
90	Departure Rates Optimization and Perimeter Control: Comparison and Cooperation in a Multi-region Urban Network. Springer Proceedings in Physics, 2020, , 597-603.	0.1	0

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91	Unraveling Gap Selection Process During Discretionary Lane Changing by Vehicle Class. IEEE Access, 2022, 10, 30643-30654.	2.6	0
92	Estimating Route Choice Characteristics of Truck Drivers from Sparse Automated Vehicle Identification Data through Data Fusion and Bi-Objective Optimization. Transportation Research Record, 0, , 036119812210950.	1.0	0