

# 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	Evaluating the impact of waiting time reliability on route choice using smart card data. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	1.3	5
2	Optimization of Charging Strategies for Battery Electric Vehicles Under Uncertainty. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 760-776.	4.7	5
3	Mapping the photovoltaic potential of the roads including the effect of traffic. <i>Renewable Energy</i> , 2022, 182, 427-442.	4.3	9
4	A Multi-Class Lane-Changing Advisory System for Freeway Merging Sections Using Cooperative ITS. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 15121-15132.	4.7	3
5	Evolution of labour supply in ridesourcing. <i>Transportmetrica B</i> , 2022, 10, 599-626.	1.4	3
6	Unraveling Gap Selection Process During Discretionary Lane Changing by Vehicle Class. <i>IEEE Access</i> , 2022, 10, 30643-30654.	2.6	0
7	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
8	Estimate the limit of predictability in short-term traffic forecasting: An entropy-based approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 138, 103607.	3.9	3
9	An Automated Detection Framework for Multiple Highway Bottleneck Activations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 5678-5692.	4.7	2
10	Unsupervised approach towards analysing the public transport bunching swings formation phenomenon. <i>Public Transport</i> , 2021, 13, 533-555.	1.7	8
11	A Heuristics-Based Cost Model for Scientific Workflow Scheduling in Cloud. <i>Computers, Materials and Continua</i> , 2021, 67, 3265-3282.	1.5	24
12	A Multi-class Lane-changing Advisory System for Freeway Merging Sections. <i>IFAC-PapersOnLine</i> , 2021, 54, 93-98.	0.5	2
13	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
14	Multistep traffic forecasting by dynamic graph convolution: Interpretations of real-time spatial correlations. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 128, 103185.	3.9	31
15	Performance evaluation of surrogate measures of safety with naturalistic driving data. <i>Accident Analysis and Prevention</i> , 2021, 162, 106403.	3.0	12
16	A data driven method for OD matrix estimation. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 113, 38-56.	3.9	47
17	Heuristic Coarsening for Generating Multiscale Transport Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 2240-2253.	4.7	4
18	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

#	ARTICLE	IF	CITATIONS
19	Modelling growth principles of metropolitan public transport networks. <i>Journal of Transport Geography</i> , 2020, 82, 102567.	2.3	17
20	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
21	Estimation of metro network passenger delay from individual trajectories. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102704.	3.9	8
22	Categorizing Merging and Diverging Strategies of Truck Drivers at Motorway Ramps and Weaving Sections using a Trajectory Dataset. <i>Transportation Research Record</i> , 2020, 2674, 855-866.	1.0	5
23	A compact and scalable representation of network traffic dynamics using shapes and its applications. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 121, 102850.	3.9	1
24	Sensitivity Analysis to Define Guidelines for Predictive Control Design. <i>Transportation Research Record</i> , 2020, 2674, 385-398.	1.0	2
25	Estimating the Safety Effects of Congestion Warning Systems using Carriageway Aggregate Data. <i>Transportation Research Record</i> , 2020, 2674, 278-288.	1.0	2
26	Departure Rates Optimization and Perimeter Control: Comparison and Cooperation in a Multi-region Urban Network. <i>Springer Proceedings in Physics</i> , 2020, , 597-603.	0.1	0
27	A data driven method for OD matrix estimation. <i>Transportation Research Procedia</i> , 2019, 38, 139-159.	0.8	45
28	Integrating network science and public transport accessibility analysis for comparative assessment. <i>Journal of Transport Geography</i> , 2019, 80, 102505.	2.3	18
29	Understanding Travel Behavior through Travel Happiness. <i>Transportation Research Record</i> , 2019, 2673, 889-897.	1.0	6
30	Feature extraction and clustering analysis of highway congestion. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 100, 238-258.	3.9	56
31	Constructing Spatiotemporal Load Profiles of Transit Vehicles with Multiple Data Sources. <i>Transportation Research Record</i> , 2018, 2672, 175-186.	1.0	19
32	On Evaluating Floating Car Data Quality for Knowledge Discovery. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 3749-3760.	4.7	9
33	A generic data assimilation framework for vehicle trajectory reconstruction on signalized urban arterials using particle filters. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 92, 364-391.	3.9	47
34	Exploring the Effects of Perception Errors and Anticipation Strategies on Traffic Accidents - A Simulation Study. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 249-261.	0.5	4
35	Revealing the day-to-day regularity of urban congestion patterns with 3D speed maps. <i>Scientific Reports</i> , 2017, 7, 14029.	1.6	64
36	Spatiotemporal Partitioning of Transportation Network Using Travel Time Data. <i>Transportation Research Record</i> , 2017, 2623, 98-107.	1.0	48

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37	Traffic Congestion Pattern Classification Using Multiclass Active Shape Models. Transportation Research Record, 2017, 2645, 94-103.	1.0	9
38	Will Automated Vehicles Negatively Impact Traffic Flow?. Journal of Advanced Transportation, 2017, 2017, 1-17.	0.9	117
39	Constructing Transit Origin-Destination Matrices with Spatial Clustering. Transportation Research Record, 2017, 2652, 39-49.	1.0	30
40	Investigating Potential Transit Ridership by Fusing Smartcard and Global System for Mobile Communications Data. Transportation Research Record, 2017, 2652, 50-58.	1.0	12
41	Getting the Human Factor into Traffic Flow Models: New Open-Source Design to Simulate Next Generation of Traffic Operations. Transportation Research Record, 2016, 2561, 25-33.	1.0	18
42	Multimodal Data Fusion for Big Events. Transportation Research Record, 2016, 2594, 118-126.	1.0	1
43	Towards a generic benchmarking platform for origin-destination flows estimation/updating algorithms: Design, demonstration and validation. Transportation Research Part C: Emerging Technologies, 2016, 66, 79-98.	3.9	83
44	Multiscale Traffic Flow Model Based on the Mesoscopic Lighthill-Whitham and Richards Models. Transportation Research Record, 2015, 2491, 98-106.	1.0	10
45	Traffic dynamics: Its impact on the Macroscopic Fundamental Diagram. Physica A: Statistical Mechanics and Its Applications, 2015, 438, 236-250.	1.2	58
46	Mesoscopic Traffic State Estimation based on a Variational Formulation of the LWR Model in Lagrangian-space Coordinates and Kalman Filter. Transportation Research Procedia, 2015, 10, 82-92.	0.8	22
47	Genealogy of traffic flow models. EURO Journal on Transportation and Logistics, 2015, 4, 445-473.	1.3	157
48	Network-Wide Traffic State Estimation Using Loop Detector and Floating Car Data. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2014, 18, 41-50.	2.6	88
49	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
50	Tokyo Virtual Living Lab: Designing Smart Cities Based on the 3D Internet. IEEE Internet Computing, 2013, 17, 30-38.	3.2	36
51	Exploring urban traffic flow dynamics. , 2013, , .		0
52	Discontinuities in the Lagrangian formulation of the kinematic wave model. Transportation Research Part C: Emerging Technologies, 2013, 34, 148-161.	3.9	25
53	Anisotropy in generic multi-class traffic flow models. Transportmetrica A: Transport Science, 2013, 9, 451-472.	1.3	21
54	Macroscopic Travel Time Reliability Diagrams for Freeway Networks. Transportation Research Record, 2013, 2396, 19-27.	1.0	8

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55	Relationship between Application Scale and Maximum Time Latency in Intelligent Transport Solutions. Transportation Research Record, 2013, 2380, 1-9.	1.0	8
56	Application of Principal Component Analysis to Predict Dynamic Origin-Destination Matrices. Transportation Research Record, 2012, 2283, 81-89.	1.0	41
57	Efficient real time OD matrix estimation based on Principal Component Analysis. , 2012, , .		42
58	Modeling monetary costs of multi-class traffic flow - Application to the dynamic management of truck lanes. , 2012, , .		0
59	Estimation of Multiclass and Multilane Counts from Aggregate Loop Detector Data. Transportation Research Record, 2012, 2308, 120-127.	1.0	1
60	Design of Open Source Framework for Traffic and Travel Simulation. Transportation Research Record, 2012, 2291, 44-52.	1.0	9
61	Modeling travel time reliability of freeways using risk assessment techniques. Transportation Research, Part A: Policy and Practice, 2012, 46, 1528-1540.	2.0	34
62	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
63	Policy-Based, Service Level-Oriented Route Guidance in Road Networks. Transportation Research Record, 2012, 2278, 115-124.	1.0	5
64	Vehicle Class-Specific Route Guidance of Freeway Traffic by Model-Predictive Control. Transportation Research Record, 2012, 2324, 53-62.	1.0	7
65	Routing Strategies Based on Macroscopic Fundamental Diagram. Transportation Research Record, 2012, 2315, 1-10.	1.0	142
66	Localized Extended Kalman Filter for Scalable Real-Time Traffic State Estimation. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 385-394.	4.7	100
67	Real-Time Lagrangian Traffic State Estimator for Freeways. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 59-70.	4.7	166
68	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
69	Multi-class ramp metering: Concepts and initial results. , 2011, , .		9
70	Prediction Intervals to Account for Uncertainties in Travel Time Prediction. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 537-547.	4.7	139
71	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
72	Efficient Methodology for Benchmarking Dynamic Origin-Destination Demand Estimation Methods. Transportation Research Record, 2011, 2263, 35-44.	1.0	1

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73	Lagrangian Formulation of Multiclass Kinematic Wave Model. Transportation Research Record, 2010, 2188, 29-36.	1.0	30
74	Empirical Evaluation of New Robust Travel Time Estimation Algorithms. Transportation Research Record, 2010, 2160, 50-59.	1.0	59
75	Two fast implementations of the Adaptive Smoothing Method used in highway traffic state estimation. , 2010, , .		16
76	Fusing Heterogeneous and Unreliable Data from Traffic Sensors. Studies in Computational Intelligence, 2010, , 511-545.	0.7	2
77	Bayesian Training and Committees of State-Space Neural Networks for Online Travel Time Prediction. Transportation Research Record, 2009, 2105, 118-126.	1.0	17
78	Online Learning Solutions for Freeway Travel Time Prediction. IEEE Transactions on Intelligent Transportation Systems, 2008, 9, 38-47.	4.7	160
79	Bayesian Combination of Travel Time Prediction Models. Transportation Research Record, 2008, 2064, 73-80.	1.0	52
80	Fastlane. Transportation Research Record, 2008, 2088, 177-187.	1.0	98
81	Macroscopic Modeling Framework Unifying Kinematic Wave Modeling and Three-Phase Traffic Theory. Transportation Research Record, 2008, 2088, 102-108.	1.0	23
82	Piecewise Inverse Speed Correction by Using Individual Travel Times. Transportation Research Record, 2008, 2049, 92-102.	1.0	12
83	Impact of Traffic Flow on Travel Time Variability of Freeway Corridors. Transportation Research Record, 2007, 1993, 59-66.	1.0	54
84	URBAN TRAVEL TIME PREDICTION BASED ON QUEUE ESTIMATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 484-490.	0.4	1
85	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
86	Predicting Urban Arterial Travel Time with State-Space Neural Networks and Kalman Filters. Transportation Research Record, 2006, 1968, 99-108.	1.0	44
87	Monitoring and Predicting Freeway Travel Time Reliability: Using Width and Skew of Day-to-Day Travel Time Distribution. Transportation Research Record, 2005, 1917, 54-62.	1.0	58
88	Modeling Traffic Flow Operation in Multilane and Multiclass Urban Networks. Transportation Research Record, 2005, 1923, 73-81.	1.0	4
89	Improving a Travel-Time Estimation Algorithm by Using Dual Loop Detectors. Transportation Research Record, 2003, 1855, 41-48.	1.0	124
90	Freeway Travel Time Prediction with State-Space Neural Networks: Modeling State-Space Dynamics with Recurrent Neural Networks. Transportation Research Record, 2002, 1811, 30-39.	1.0	189

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91	State Space Neural Networks for Freeway Travel Time Prediction. Lecture Notes in Computer Science, 2002, , 1043-1048.	1.0	16
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