

Hans van Lint

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7896021/publications.pdf>

Version: 2024-02-01

92
papers

2,995
citations

172457
29
h-index

175258
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. Transportmetrica A: Transport Science, 2023, 19, .	2.0	5
2	Optimization of Charging Strategies for Battery Electric Vehicles Under Uncertainty. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 760-776.	8.0	5
3	Mapping the photovoltaic potential of the roads including the effect of traffic. Renewable Energy, 2022, 182, 427-442.	8.9	9
4	A Multi-Class Lane-Changing Advisory System for Freeway Merging Sections Using Cooperative ITS. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15121-15132.	8.0	3
5	Evolution of labour supply in ridesourcing. Transportmetrica B, 2022, 10, 599-626.	2.3	3
6	Unraveling Gap Selection Process During Discretionary Lane Changing by Vehicle Class. IEEE Access, 2022, 10, 30643-30654.	4.2	0
7	Analysing the impact of COVID-19 risk perceptions on route choice behaviour in train networks. PLoS ONE, 2022, 17, e0264805.	2.5	14
8	Estimate the limit of predictability in short-term traffic forecasting: An entropy-based approach. Transportation Research Part C: Emerging Technologies, 2022, 138, 103607.	7.6	3
9	An Automated Detection Framework for Multiple Highway Bottleneck Activations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5678-5692.	8.0	2
10	Unsupervised approach towards analysing the public transport bunching swings formation phenomenon. Public Transport, 2021, 13, 533-555.	2.7	8
11	A Heuristics-Based Cost Model for Scientific Workflow Scheduling in Cloud. Computers, Materials and Continua, 2021, 67, 3265-3282.	1.9	24
12	A Multi-class Lane-changing Advisory System for Freeway Merging Sections. IFAC-PapersOnLine, 2021, 54, 93-98.	0.9	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. Transportation Research Part C: Emerging Technologies, 2021, 127, 103111.	7.6	14
14	Multistep traffic forecasting by dynamic graph convolution: Interpretations of real-time spatial correlations. Transportation Research Part C: Emerging Technologies, 2021, 128, 103185.	7.6	31
15	Performance evaluation of surrogate measures of safety with naturalistic driving data. Accident Analysis and Prevention, 2021, 162, 106403.	5.7	12
16	A data driven method for OD matrix estimation. Transportation Research Part C: Emerging Technologies, 2020, 113, 38-56.	7.6	47
17	Heuristic Coarsening for Generating Multiscale Transport Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2240-2253.	8.0	4
18	Can passenger flow distribution be estimated solely based on network properties in public transport systems?. Transportation, 2020, 47, 2757-2776.	4.0	18

#	ARTICLE	IF	CITATIONS
19	Modelling growth principles of metropolitan public transport networks. Journal of Transport Geography, 2020, 82, 102567.	5.0	17
20	Evaluating Traffic Efficiency and Safety by Varying Truck Platoon Characteristics in a Critical Traffic Situation. Transportation Research Record, 2020, 2674, 525-547.	1.9	16
21	Estimation of metro network passenger delay from individual trajectories. Transportation Research Part C: Emerging Technologies, 2020, 117, 102704.	7.6	8
22	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.	1.9	5
23	A compact and scalable representation of network traffic dynamics using shapes and its applications. Transportation Research Part C: Emerging Technologies, 2020, 121, 102850.	7.6	1
24	Sensitivity Analysis to Define Guidelines for Predictive Control Design. Transportation Research Record, 2020, 2674, 385-398.	1.9	2
25	Estimating the Safety Effects of Congestion Warning Systems using Carriageway Aggregate Data. Transportation Research Record, 2020, 2674, 278-288.	1.9	2
26	Departure Rates Optimization and Perimeter Control: Comparison and Cooperation in a Multi-region Urban Network. Springer Proceedings in Physics, 2020, , 597-603.	0.2	0
27	A data driven method for OD matrix estimation. Transportation Research Procedia, 2019, 38, 139-159.	1.5	45
28	Integrating network science and public transport accessibility analysis for comparative assessment. Journal of Transport Geography, 2019, 80, 102505.	5.0	18
29	Understanding Travel Behavior through Travel Happiness. Transportation Research Record, 2019, 2673, 889-897.	1.9	6
30	Feature extraction and clustering analysis of highway congestion. Transportation Research Part C: Emerging Technologies, 2019, 100, 238-258.	7.6	56
31	Constructing Spatiotemporal Load Profiles of Transit Vehicles with Multiple Data Sources. Transportation Research Record, 2018, 2672, 175-186.	1.9	19
32	On Evaluating Floating Car Data Quality for Knowledge Discovery. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3749-3760.	8.0	9
33	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.	7.6	47
34	Exploring the Effects of Perception Errors and Anticipation Strategies on Traffic Accidents - A Simulation Study. Advances in Intelligent Systems and Computing, 2018, , 249-261.	0.6	4
35	Revealing the day-to-day regularity of urban congestion patterns with 3D speed maps. Scientific Reports, 2017, 7, 14029.	3.3	64
36	Spatiotemporal Partitioning of Transportation Network Using Travel Time Data. Transportation Research Record, 2017, 2623, 98-107.	1.9	48

#	ARTICLE	IF	CITATIONS
37	Traffic Congestion Pattern Classification Using Multiclass Active Shape Models. Transportation Research Record, 2017, 2645, 94-103.	1.9	9
38	Will Automated Vehicles Negatively Impact Traffic Flow?. Journal of Advanced Transportation, 2017, 2017, 1-17.	1.7	117
39	Constructing Transit Originâ€œDestination Matrices with Spatial Clustering. Transportation Research Record, 2017, 2652, 39-49.	1.9	30
40	Investigating Potential Transit Ridership by Fusing Smartcard and Global System for Mobile Communications Data. Transportation Research Record, 2017, 2652, 50-58.	1.9	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.	1.9	18
42	Multimodal Data Fusion for Big Events. Transportation Research Record, 2016, 2594, 118-126.	1.9	1
43	Towards a generic benchmarking platform for originâ€œdestination flows estimation/updating algorithms: Design, demonstration and validation. Transportation Research Part C: Emerging Technologies, 2016, 66, 79-98.	7.6	83
44	Multiscale Traffic Flow Model Based on the Mesoscopic Lighthillâ€œWhitham and Richards Models. Transportation Research Record, 2015, 2491, 98-106.	1.9	10
45	Traffic dynamics: Its impact on the Macroscopic Fundamental Diagram. Physica A: Statistical Mechanics and Its Applications, 2015, 438, 236-250.	2.6	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.	1.5	22
47	Genealogy of traffic flow models. EURO Journal on Transportation and Logistics, 2015, 4, 445-473.	2.2	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.	4.2	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.	3.8	0
50	Tokyo Virtual Living Lab: Designing Smart Cities Based on the 3D Internet. IEEE Internet Computing, 2013, 17, 30-38.	3.3	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.	7.6	25
53	Anisotropy in generic multi-class traffic flow models. Transportmetrica A: Transport Science, 2013, 9, 451-472.	2.0	21
54	Macroscopic Travel Time Reliability Diagrams for Freeway Networks. Transportation Research Record, 2013, 2396, 19-27.	1.9	8

#	ARTICLE	IF	CITATIONS
55	Relationship between Application Scale and Maximum Time Latency in Intelligent Transport Solutions. Transportation Research Record, 2013, 2380, 1-9.	1.9	8
56	Application of Principal Component Analysis to Predict Dynamic Origin-Destination Matrices. Transportation Research Record, 2012, 2283, 81-89.	1.9	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.	1.9	1
60	Design of Open Source Framework for Traffic and Travel Simulation. Transportation Research Record, 2012, 2291, 44-52.	1.9	9
61	Modeling travel time reliability of freeways using risk assessment techniques. Transportation Research, Part A: Policy and Practice, 2012, 46, 1528-1540.	4.2	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.	1.9	9
63	Policy-Based, Service Level-Oriented Route Guidance in Road Networks. Transportation Research Record, 2012, 2278, 115-124.	1.9	5
64	Vehicle Class-Specific Route Guidance of Freeway Traffic by Model-Predictive Control. Transportation Research Record, 2012, 2324, 53-62.	1.9	7
65	Routing Strategies Based on Macroscopic Fundamental Diagram. Transportation Research Record, 2012, 2315, 1-10.	1.9	142
66	Localized Extended Kalman Filter for Scalable Real-Time Traffic State Estimation. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 385-394.	8.0	100
67	Real-Time Lagrangian Traffic State Estimator for Freeways. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 59-70.	8.0	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.	8.0	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.	8.0	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.	8.0	26
72	Efficient Methodology for Benchmarking Dynamic Origin-Destination Demand Estimation Methods. Transportation Research Record, 2011, 2263, 35-44.	1.9	1

#	ARTICLE	IF	CITATIONS
73	Lagrangian Formulation of Multiclass Kinematic Wave Model. Transportation Research Record, 2010, 2188, 29-36.	1.9	30
74	Empirical Evaluation of New Robust Travel Time Estimation Algorithms. Transportation Research Record, 2010, 2160, 50-59.	1.9	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.	0.9	2
77	Bayesian Training and Committees of State-Space Neural Networks for Online Travel Time Prediction. Transportation Research Record, 2009, 2105, 118-126.	1.9	17
78	Online Learning Solutions for Freeway Travel Time Prediction. IEEE Transactions on Intelligent Transportation Systems, 2008, 9, 38-47.	8.0	160
79	Bayesian Combination of Travel Time Prediction Models. Transportation Research Record, 2008, 2064, 73-80.	1.9	52
80	Fastlane. Transportation Research Record, 2008, 2088, 177-187.	1.9	98
81	Macroscopic Modeling Framework Unifying Kinematic Wave Modeling and Three-Phase Traffic Theory. Transportation Research Record, 2008, 2088, 102-108.	1.9	23
82	Piecewise Inverse Speed Correction by Using Individual Travel Times. Transportation Research Record, 2008, 2049, 92-102.	1.9	12
83	Impact of Traffic Flow on Travel Time Variability of Freeway Corridors. Transportation Research Record, 2007, 1993, 59-66.	1.9	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.	1.9	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.	1.9	58
88	Modeling Traffic Flow Operation in Multilane and Multiclass Urban Networks. Transportation Research Record, 2005, 1923, 73-81.	1.9	4
89	Improving a Travel-Time Estimation Algorithm by Using Dual Loop Detectors. Transportation Research Record, 2003, 1855, 41-48.	1.9	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.	1.9	189

#	ARTICLE	IF	CITATIONS
91	State Space Neural Networks for Freeway Travel Time Prediction. Lecture Notes in Computer Science, 2002, , 1043-1048.	1.3	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.	1.9	0