

Francesco Viti

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

1,353
citations

430442

18
h-index

500791

28
g-index

122
all docs

122
docs citations

122
times ranked

1023
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing partial observability in network sensor location problems. <i>Transportation Research Part B: Methodological</i> , 2014, 70, 65-89.	2.8	77
2	Probabilistic models for queues at fixed control signals. <i>Transportation Research Part B: Methodological</i> , 2010, 44, 120-135.	2.8	65
3	Joint Modeling of Advanced Travel Information Service, Habit, and Learning Impacts on Route Choice by Laboratory Simulator Experiments. , 0, .		62
4	Calibration of a microscopic simulation model for emission calculation. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 31, 172-184.	3.9	61
5	Mixed-fleet single-terminal bus scheduling problem: Modelling, solution scheme and potential applications. <i>Omega</i> , 2020, 96, 102070.	3.6	54
6	New Gradient Approximation Method for Dynamic Origin-Destination Matrix Estimation on Congested Networks. <i>Transportation Research Record</i> , 2011, 2263, 19-25.	1.0	52
7	Dynamic origin-destination estimation in congested networks: theoretical findings and implications in practice. <i>Transportmetrica A: Transport Science</i> , 2013, 9, 494-513.	1.3	46
8	Modeling Queues at Signalized Intersections. <i>Transportation Research Record</i> , 2004, 1883, 68-77.	1.0	35
9	Driving behavior interaction with ACC: results from a Field Operational Test in the Netherlands. , 2008, , .		31
10	Non-unique flows in macroscopic first-order intersection models. <i>Transportation Research Part B: Methodological</i> , 2012, 46, 343-359.	2.8	30
11	A probabilistic model for traffic at actuated control signals. <i>Transportation Research Part C: Emerging Technologies</i> , 2010, 18, 299-310.	3.9	29
12	Sensor Locations for Reliable Travel Time Prediction and Dynamic Management of Traffic Networks. <i>Transportation Research Record</i> , 2008, 2049, 103-110.	1.0	26
13	Analysis of Cooperative Bus Priority at Traffic Signals. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 1929-1940.	4.7	26
14	Two-Step Approach for Correction of Seed Matrix in Dynamic Demand Estimation. <i>Transportation Research Record</i> , 2014, 2466, 125-133.	1.0	25
15	Workplace Relocation and Mobility Changes in a Transnational Metropolitan Area: The Case of the University of Luxembourg. <i>Transportation Research Procedia</i> , 2014, 4, 286-299.	0.8	24
16	Repeated anticipatory network traffic control using iterative optimization accounting for model bias correction. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 67, 243-265.	3.9	24
17	The Dynamics and the Uncertainty of Queues at Fixed and Actuated Controls: A Probabilistic Approach. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2009, 13, 39-51.	2.6	22
18	Dynamic Origin-Destination Matrix Estimation on Large-Scale Congested Networks Using a Hierarchical Decomposition Scheme. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2014, 18, 51-66.	2.6	21

#	ARTICLE	IF	CITATIONS
19	Equilibrium models in multimodal container transport systems. Flexible Services and Manufacturing Journal, 2017, 29, 125-153.	1.9	20
20	Availability-based dynamic pricing on a round-trip carsharing service: an explorative analysis using agent-based simulation. Procedia Computer Science, 2019, 151, 248-255.	1.2	20
21	Evaluating the effects of information reliability on travellers' route choice. European Transport Research Review, 2014, 6, 61-70.	2.3	19
22	Impact of different spacing policies for adaptive cruise control on traffic and energy consumption of electric vehicles. , 2016, , .		19
23	Exact and approximate route set generation for resilient partial observability in sensor location problems. Transportation Research Part B: Methodological, 2017, 105, 86-119.	2.8	19
24	Enhancing Bus Holding Control Using Cooperative ITS. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1767-1778.	4.7	19
25	Speed and acceleration distributions at a traffic signal analyzed from microscopic real and simulated data. , 2008, , .		18
26	Multiline holding based control for lines merging to a shared transit corridor. Transportmetrica B, 2019, 7, 1062-1095.	1.4	18
27	A survey of cooperative ITS for next generation public transport systems. , 2016, , .		17
28	New services, new travelers, old models? Directions to pioneer public transport models in the era of big data. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 311-315.	2.6	17
29	Optimal dispatching of electric and hybrid buses subject to scheduling and charging constraints. , 2018, , .		16
30	Microscopic energy consumption modelling of electric buses: model development, calibration, and validation. Transportation Research, Part D: Transport and Environment, 2021, 98, 102978.	3.2	15
31	Equilibrium in Capacitated Network Models with Queueing Delays, Queue-storage, Blocking Back and Control. Procedia, Social and Behavioral Sciences, 2013, 80, 860-879.	0.5	14
32	The Cost of Environmental Constraints in Traffic Networks: Assessing the Loss of Optimality. Networks and Spatial Economics, 2016, 16, 349-369.	0.7	14
33	Traffic control which maximises network throughput: Some simple examples. Transportation Research Part C: Emerging Technologies, 2019, 107, 211-228.	3.9	14
34	Quasi-dynamic traffic assignment with spatial queueing, control and blocking back. Transportation Research Part B: Methodological, 2019, 122, 140-166.	2.8	14
35	Improving the efficiency of repeated dynamic network loading through marginal simulation. Transportation Research Part C: Emerging Technologies, 2014, 41, 90-109.	3.9	13
36	Dynamic Pricing on Round-Trip Carsharing Services: Travel Behavior and Equity Impact Analysis through an Agent-Based Simulation. Sustainability, 2020, 12, 6727.	1.6	13

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37	National Data Warehouse. Transportation Research Record, 2008, 2049, 176-185.	1.0	11
38	Usage of Smartphone Data to Derive an Indicator for Collaborative Mobility between Individuals. ISPRS International Journal of Geo-Information, 2017, 6, 62.	1.4	11
39	Incorporating activity duration and scheduling utility into equilibrium-based Dynamic Traffic Assignment. Transportation Research Part B: Methodological, 2019, 126, 365-390.	2.8	11
40	A Two-Steps Dynamic Demand Estimation Approach Sequentially Adjusting Generations and Distributions. , 2015, , .		10
41	Valuation of Different Types of Travel Time Reliability in Route Choice: Large-Scale Laboratory Experiment. , 0, .		10
42	An iterative learning approach for anticipatory traffic signal control on urban networks. Transportmetrica B, 2017, 5, 402-425.	1.4	9
43	On characterizing the relationship between route choice behaviour and optimal traffic control solution space. Transportation Research Part B: Methodological, 2018, 117, 892-906.	2.8	9
44	Incorporating trip chaining within online demand estimation. Transportation Research Part B: Methodological, 2020, 132, 171-187.	2.8	9
45	A Markov chain dynamic model for trip generation and distribution based on CDR. , 2015, , .		8
46	A real-time holding decision rule accounting for passenger travel cost. , 2016, , .		8
47	Analyzing the correlation between commuting satisfaction and travelling utility. Transportation Research Procedia, 2017, 25, 2639-2648.	0.8	8
48	The effect of workplace relocation on individuals' activity travel behavior. Journal of Transport and Land Use, 2018, 11, .	0.7	8
49	A hierarchical approach for dynamic origin-destination matrix estimation on large-scale congested networks. , 2011, , .		7
50	Dynamic Modeling of VISSIM's Critical Gap Parameter at Unsignalized Intersections. Transportation Research Record, 2013, 2395, 12-20.	1.0	7
51	Distributed Automated Vehicle Location (AVL) System Based on Connected Vehicle Technology. , 2015, , .		7
52	A Utility-based Dynamic Demand Estimation Model that Explicitly Accounts for Activity Scheduling and Duration.. Transportation Research Procedia, 2017, 23, 440-459.	0.8	7
53	Generating macroscopic, purpose-dependent trips through Monte Carlo sampling techniques. Transportation Research Procedia, 2017, 27, 585-592.	0.8	7
54	A density-based dynamic OD estimation method that reproduces within-day congestion dynamics. , 2010, , .		6

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55	The Impact of Route Choice Modeling on Dynamic OD Estimation. , 2015, , .		6
56	A dual control approach for repeated anticipatory traffic control with estimation of network flow sensitivity. Journal of Advanced Transportation, 2016, 50, 1386-1412.	0.9	6
57	A utility-based dynamic demand estimation model that explicitly accounts for activity scheduling and duration. Transportation Research, Part A: Policy and Practice, 2018, 114, 303-320.	2.0	6
58	Supply characteristics and membership choice in round-trip and free-floating carsharing systems. , 2019, , .		6
59	Short- and Long-Term Impacts of Workplace Relocation: A Survey and Experience from the University of Luxembourg Relocation. Sustainability, 2020, 12, 7506.	1.6	6
60	Model and Solution Methods for the Mixed-Fleet Multi-Terminal Bus Scheduling Problem. Transportation Research Procedia, 2020, 47, 275-282.	0.8	6
61	Evaluation of intervention strategies for a road link in the Netherlands. Built Environment Project and Asset Management, 2014, 4, 180-198.	0.9	5
62	On characterizing the relationship between route choice behavior and optimal traffic control solution space. Transportation Research Procedia, 2017, 23, 700-719.	0.8	5
63	A new modelling framework over temporal graphs for collaborative mobility recommendation systems. , 2017, , .		5
64	Estimating urban road traffic states using mobile network signaling data. , 2017, , .		5
65	How Road and Mobile Networks Correlate: Estimating Urban Traffic Using Handovers. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 521-530.	4.7	5
66	Trip chaining impact on within-day mode choice dynamics: Evidences from a multi-day travel survey. Transportation Research Procedia, 2021, 52, 684-691.	0.8	5
67	A holding control strategy for diverging bus lines. Transportation Research Part C: Emerging Technologies, 2021, 126, 103087.	3.9	5
68	The Impact of SARS-COVID-19 Outbreak on European Cities Urban Mobility. Frontiers in Future Transportation, 2021, 2, .	1.3	5
69	A Big Data Demand Estimation Model for Urban Congested Networks. Transport and Telecommunication, 2020, 21, 245-254.	0.7	5
70	The Effects of Dynamic Network Loading Models on DTA-based OD Estimation. , 2010, , .		5
71	Uncertainty and the Dynamics of Queues at Controlled Intersections. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 43-48.	0.4	4
72	Microscopic Data for Analyzing Driving Behavior at Traffic Signals. Profiles in Operations Research, 2010, , 171-191.	0.3	4

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73	Editorial: Models and Technologies for Intelligent Transportation Systems: New Challenges and Metaheuristic Solutions for Large-Scale Network Applications. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2014, 18, 1-4.	2.6	4
74	Assessing the Effect of Route Information on Network Observability Applied to Sensor Location Problems. Transportation Research Procedia, 2015, 10, 3-12.	0.8	4
75	Experimental analysis of eGLOSA and eGLODTA transit control strategies. , 2017, , .		4
76	Assessing Two-way and One-way Carsharing: an Agent-Based Simulation Approach. Transportation Research Procedia, 2021, 52, 541-548.	0.8	4
77	Explorative analysis of potential MaaS customers: an agent-based scenario. Procedia Computer Science, 2021, 184, 629-634.	1.2	4
78	Dynamic Traffic Assignment: Recent Advances and New Theories Towards Real Time Applications and Realistic Travel Behaviour (Editorial). , 2010, , .		4
79	Assessing the consistency between observed and modelled route choices through GPS data. , 2015, , .		3
80	An integrated approach to adaptive anticipatory traffic control and parameter estimation. , 2015, , .		3
81	How mobile phone handovers reflect urban mobility: A simulation study. , 2017, , .		3
82	Demo: MAMBA: A platform for personalised multimodal trip planning. , 2017, , .		3
83	Effectiveness of the two-step dynamic demand estimation model on large networks. , 2017, , .		3
84	Incorporating Trip Chaining within Online Demand Estimation. Transportation Research Procedia, 2019, 38, 462-481.	0.8	3
85	A real time hybrid controller for regulating bus operations and reducing stops at signals. , 2019, , .		3
86	Leveraging GIS Data and Topological Information to Infer Trip Chaining Behaviour at Macroscopic Level. , 2019, , .		3
87	Inferring Urban Mobility and Habits from User Location History. Transportation Research Procedia, 2020, 47, 283-290.	0.8	3
88	Investigating the Relationship between Controller Locations and Dynamic Traffic Control in Generic Transportation Networks. Transportation Research Record, 2020, 2674, 172-182.	1.0	3
89	Public Transport in the Era of ITS: The Role of Public Transport in Sustainable Cities and Regions. Springer Tracts on Transportation and Traffic, 2016, , 3-27.	0.2	3
90	Analysis of MaaS membership attributes: an agent-based approach. Transportation Research Procedia, 2022, 62, 483-490.	0.8	3

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91	Equilibrium and sensitivity analysis of dynamic ridesharing. , 2013, , .		2
92	Systematic assessment of local & global signal control policies: A methodological perspective. , 2015, , .		2
93	Novel C-ITS support for electric buses with opportunity charging. , 2017, , .		2
94	Assessing the performance of coordinated predictive control strategies on urban-motorway networks. IFAC-PapersOnLine, 2018, 51, 285-290.	0.5	2
95	Using Passive Data Collection Methods to Learn Complex Mobility Patterns: An Exploratory Analysis. , 2018, , .		2
96	Guest Editorial Introduction of the Special Issue on Management of Future Motorway and Urban Traffic Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1631-1634.	4.7	2
97	A Data-Driven Scalable Method for Profiling and Dynamic Analysis of Shared Mobility Solutions. Journal of Advanced Transportation, 2021, 2021, 1-15.	0.9	2
98	Sensitivity Analysis on Regularity Based Driver Advisory Systems. , 2020, , .		2
99	A cascading Kalman filtering framework for real-time urban network flow estimation. , 2020, , .		2
100	Systematic Analysis and Modelling of Profit Maximization on Carsharing. Journal of Advanced Transportation, 2022, 2022, 1-17.	0.9	2
101	An iterative learning approach for signal control in urban traffic networks. , 2013, , .		1
102	A network-wide assessment of local signal control policies' performance in practical implementations. , 2016, , .		1
103	A local dynamic route and green time swapping control algorithm maximizing total network capacity. , 2017, , .		1
104	On the substitutability of traffic light and pricing controllers in transportation networks. , 2019, , .		1
105	Mixed hybrid and electric bus dynamic fleet management in urban networks: a model predictive control approach. , 2019, , .		1
106	Public Transport in the Era of ITS: ITS Technologies for Public Transport. Springer Tracts on Transportation and Traffic, 2016, , 85-128.	0.2	1
107	Optimal Management of Electrified and Cooperative Bus Systems. , 0, , .		1
108	Assessing Equity in Carsharing Systems: the case of Munich, Germany. Transportation Research Procedia, 2022, 62, 664-671.	0.8	1

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109	Analysis to feature-based video stabilization/registration techniques within application of traffic data collection. , 2015, , .		0
110	An Optimization-Based Iterative Learning Method for Anticipatory Network Traffic Control. , 2016, , .		0
111	Estimating speed profiles from aerial vision " A comparison of regression based sampling techniques. , 2016, , .		0
112	A global optimization heuristic for the decomposed static anticipatory network traffic control problem. Transportation Research Procedia, 2017, 27, 648-655.	0.8	0
113	Heuristic methods for minimal controller location set problem in transportation networks. Transportation Research Procedia, 2021, 52, 83-90.	0.8	0
114	Observability based data-fusion cascading filtering for urban network flow estimation. , 2021, , .		0
115	Comparing Multi-Modal Traffic Assignments in Large-Scale Simulations using the Macroscopic Fundamental Diagram: Mode Shift from Cars to Powered Two Wheelers. , 2021, , .		0
116	A Big Data Demand Estimation Framework for Multimodal Modelling of Urban Congested Networks. Advances in Intelligent Systems and Computing, 2019, , 139-146.	0.5	0
117	The CORONA business in modern cities. , 2020, , .		0
118	Dynamic Modal Split Incorporating Trip Chaining: A Parsimonious Approach to Mode-Specific Demand Estimation. Transportation Research Procedia, 2022, 62, 253-260.	0.8	0
119	A topological approach for identifying pricing controller locations to ensure controllability of transportation networks. EURO Journal on Transportation and Logistics, 2022, 11, 100078.	1.3	0