

# Hai L. Vu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/949537/publications.pdf>

Version: 2024-02-01

88

papers

2,840

citations

201674

27

h-index

189892

50

g-index

88

all docs

88

docs citations

88

times ranked

2453

citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the long-term regional impacts of autonomous vehicles: A case study of Victoria, Australia. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 459-470.	4.2	1
2	Dynamic V2I/V2V Cooperative Scheme for Connectivity and Throughput Enhancement. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1236-1246.	8.0	20
3	Boosted Genetic Algorithm Using Machine Learning for Traffic Control Optimization. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7112-7141.	8.0	23
4	A System Optimal Speed Advisory Framework for a Network of Connected and Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5727-5739.	8.0	6
5	Scheduling and Power Control for Connectivity Enhancement in Multi-Hop I2V/V2V Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10322-10332.	8.0	8
6	Short-term traffic flow prediction in bike-sharing networks. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2022, 26, 461-475.	4.2	12
7	Understanding bikeability: a methodology to assess urban networks. Transportation, 2022, 49, 897-925.	4.0	9
8	A unified activity-based framework for one-way car-sharing services in multi-modal transportation networks. Transportation Research, Part E: Logistics and Transportation Review, 2022, 157, 102551.	7.4	10
9	A novel metamodel-based framework for large-scale dynamic origin-destination demand calibration. Transportation Research Part C: Emerging Technologies, 2022, 136, 103545.	7.6	9
10	Modeling public acceptance of private autonomous vehicles: Value of time and motion sickness viewpoints. Transportation Research Part C: Emerging Technologies, 2022, 137, 103548.	7.6	10
11	Enhancing Covid-19 virus spread modeling using an activity travel model. Transportation Research, Part A: Policy and Practice, 2022, 161, 186-199.	4.2	1
12	An Automated Detection Framework for Multiple Highway Bottleneck Activations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5678-5692.	8.0	2
13	Analyzing the inconsistency in driving patterns between manual and autonomous modes under complex driving scenarios with a VR-enabled simulation platform. Journal of Intelligent and Connected Vehicles, 2022, 5, 215-234.	7.4	11
14	An agent-based model for real-time bus stop-skipping and holding schemes. Transportmetrica A: Transport Science, 2021, 17, 615-647.	2.0	10
15	Studying freeway merging conflicts using virtual reality technology. Journal of Safety Research, 2021, 76, 16-29.	3.6	13
16	Percolation of heterogeneous flows uncovers the bottlenecks of infrastructure networks. Nature Communications, 2021, 12, 1254.	12.8	47
17	A novel urban congestion pricing scheme considering travel cost perception and level of service. Transportation Research Part C: Emerging Technologies, 2021, 125, 103042.	7.6	29
18	On-road virtual reality autonomous vehicle (VRAV) simulator: An empirical study on user experience. Transportation Research Part C: Emerging Technologies, 2021, 126, 103090.	7.6	22

#	ARTICLE	IF	CITATIONS
19	Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT. IEEE Internet of Things Journal, 2021, 8, 10299-10307.	8.7	24
20	Automated extraction of origin-destination demand for public transportation from smartcard data with pattern recognition. Transportation Research Part C: Emerging Technologies, 2021, 129, 103210.	7.6	6
21	A framework for railway transit network design with first-mile shared autonomous vehicles. Transportation Research Part C: Emerging Technologies, 2021, 130, 103223.	7.6	11
22	A spatio-temporal ensemble method for large-scale traffic state prediction. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 26-44.	9.8	40
23	H $\infty$ robust perimeter flow control in urban networks with partial information feedback. Transportation Research Part B: Methodological, 2020, 137, 47-73.	5.9	51
24	Adaptive Admission Control for IoT Applications in Home WiFi Networks. IEEE Transactions on Mobile Computing, 2020, 19, 2731-2742.	5.8	33
25	Macroscopic pedestrian flow simulation using Smoothed Particle Hydrodynamics (SPH). Transportation Research Part C: Emerging Technologies, 2020, 111, 334-351.	7.6	16
26	Influence ranking of road segments in urban road traffic networks. Computing (Vienna/New York), 2020, 102, 2333-2360.	4.8	3
27	Fifty Years of Accident Analysis & Prevention: A Bibliometric and Scientometric Overview. Accident Analysis and Prevention, 2020, 144, 105568.	5.7	49
28	Integration of Departure Time Choice Modeling and Dynamic Origin-Destination Demand Estimation in a Large-Scale Network. Transportation Research Record, 2020, 2674, 972-981.	1.9	5
29	Studying the Impact of Public Transport on Disaster Evacuation. , 2020, , .		0
30	A Hierarchical Control Framework for Coordination of Intersection Signal Timings in All Traffic Regimes. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1815-1827.	8.0	18
31	Fair Coexistence of Regular and Multipath TCP over Wireless Last-Miles. IEEE Transactions on Mobile Computing, 2019, 18, 574-587.	5.8	16
32	Application of Strategic Transport Model and Google Maps to Develop Better Clot Retrieval Stroke Service. Frontiers in Neurology, 2019, 10, 692.	2.4	6
33	Multiple model stochastic filtering for traffic density estimation on urban arterials. Transportation Research Part B: Methodological, 2019, 126, 280-306.	5.9	7
34	Mapping the knowledge domain of road safety studies: A scientometric analysis. Accident Analysis and Prevention, 2019, 132, 105243.	5.7	36
35	An effective spatial-temporal attention based neural network for traffic flow prediction. Transportation Research Part C: Emerging Technologies, 2019, 108, 12-28.	7.6	170
36	Mobility-Aware Multipath Communication for Unmanned Aerial Surveillance Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 6088-6098.	6.3	27

#	ARTICLE	IF	CITATIONS
37	Feature extraction and clustering analysis of highway congestion. Transportation Research Part C: Emerging Technologies, 2019, 100, 238-258.	7.6	56
38	Guest Editorial Introduction to the Special Issue on Intelligent Transportation Systems Empowered by AI Technologies. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3765-3770.	8.0	3
39	System optimal dynamic traffic assignment: solution structures of the signal control in non-holding-back formulations. Transportmetrica B, 2019, 7, 967-991.	2.3	2
40	Survey of neural network-based models for short-term traffic state prediction. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1285.	6.8	59
41	A linear framework for dynamic user equilibrium traffic assignment in a single origin-destination capacitated network. Transportation Research Part B: Methodological, 2019, 126, 329-352.	5.9	8
42	Capturing the Spatiotemporal Evolution in Road Traffic Networks. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1426-1439.	5.7	26
43	Beacon Rate Optimization for Vehicular Safety Applications in Highway Scenarios. IEEE Transactions on Vehicular Technology, 2018, 67, 524-536.	6.3	25
44	A linear bus rapid transit with transit signal priority formulation. Transportation Research, Part E: Logistics and Transportation Review, 2018, 114, 163-184.	7.4	19
45	Studying the Safety Impact of Autonomous Vehicles Using Simulation-Based Surrogate Safety Measures. Journal of Advanced Transportation, 2018, 2018, 1-11.	1.7	160
46	Visualization and analysis of mapping knowledge domain of road safety studies. Accident Analysis and Prevention, 2018, 118, 131-145.	5.7	219
47	An informed user equilibrium dynamic traffic assignment problem in a multiple origin-destination stochastic network. Transportation Research Part B: Methodological, 2018, 115, 207-230.	5.9	7
48	Analysis of Multi-Hop Probabilistic Forwarding for Vehicular Safety Applications on Highways. IEEE Transactions on Mobile Computing, 2017, 16, 918-933.	5.8	15
49	Analytical Modeling of Multipath TCP Over Last-Mile Wireless. IEEE/ACM Transactions on Networking, 2017, 25, 1876-1891.	3.8	29
50	Utility optimization framework for a distributed traffic control of urban road networks. Transportation Research Part B: Methodological, 2017, 105, 539-558.	5.9	23
51	Characterising Green Light Optimal Speed Advisory trajectories for platoon-based optimisation. Transportation Research Part C: Emerging Technologies, 2017, 82, 43-62.	7.6	69
52	Partitioning road networks using density peak graphs: Efficiency vs. accuracy. Information Systems, 2017, 64, 22-40.	3.6	33
53	Traffic Congestion Pattern Classification Using Multiclass Active Shape Models. Transportation Research Record, 2017, 2645, 94-103.	1.9	9
54	A strategic timing of arrivals to a linear slowdown processor sharing system. European Journal of Operational Research, 2016, 255, 496-504.	5.7	7

#	ARTICLE	IF	CITATIONS
55	Temporal Tracking of Congested Partitions in Dynamic Urban Road Networks. Transportation Research Record, 2016, 2595, 88-97.	1.9	9
56	TCP Performance over Wi-Fi: Joint Impact of Buffer and Channel Losses. IEEE Transactions on Mobile Computing, 2016, 15, 1279-1291.	5.8	35
57	Tracking the Evolution of Congestion in Dynamic Urban Road Networks. , 2016, , .		12
58	RoadRank. , 2015, , .		12
59	Decentralized signal control for urban road networks. Transportation Research Part C: Emerging Technologies, 2015, 58, 431-450.	7.6	133
60	Performance analysis and optimization of best-effort service in IEEE 802.16 networks. Wireless Communications and Mobile Computing, 2014, 14, 254-268.	1.2	3
61	Optimal designs for IEEE 802.15.4 wireless sensor networks. Wireless Communications and Mobile Computing, 2013, 13, 1681-1692.	1.2	3
62	Shortest Paths in Stochastic Time-Dependent Networks with Link Travel Time Correlation. Transportation Research Record, 2013, 2338, 58-66.	1.9	9
63	Performance Modeling of Broadcast Polling in IEEE 802.16 Networks with Finite-Buffered Subscriber Stations. IEEE Transactions on Wireless Communications, 2012, 11, 4514-4523.	9.2	4
64	Performance Analysis of the IEEE 802.11 MAC Protocol for DSRC Safety Applications. IEEE Transactions on Vehicular Technology, 2011, 60, 3882-3896.	6.3	190
65	Handoff Optimization Using Hidden Markov Model. IEEE Signal Processing Letters, 2011, 18, 411-414.	3.6	4
66	VoIP Capacity Analysis, Improvements, and Limits in IEEE 802.11 Wireless LAN. IEEE Transactions on Vehicular Technology, 2010, 59, 4553-4563.	6.3	25
67	AN ESTIMATION OF SENSOR ENERGY CONSUMPTION. Progress in Electromagnetics Research B, 2009, 12, 259-295.	1.0	162
68	Deflection-based transmission protocol for LAN operation in a PON system. Photonic Network Communications, 2009, 18, 129-136.	2.7	1
69	Designing an Optimal Scheduler Buffer in OBS Networks. Journal of Lightwave Technology, 2008, 26, 2046-2054.	4.6	6
70	Priority-Based Duplicate Burst Transmission Mechanism in Optical Burst Switching Networks. ETRI Journal, 2008, 30, 164-166.	2.0	5
71	On Achieving the Optimal Performance of FDL Buffers Using Burst Assembly. IEEE Communications Letters, 2007, 11, 895-897.	4.1	6
72	MAC Access Delay of IEEE 802.11 DCF. IEEE Transactions on Wireless Communications, 2007, 6, 1702-1710.	9.2	164

#	ARTICLE	IF	CITATIONS
73	Packet loss analysis of the IEEE 802.15.4 MAC without acknowledgements. IEEE Communications Letters, 2007, 11, 79-81.	4.1	40
74	The waiting time distribution for a TDMA model with a finite buffer and state-dependent service. IEEE Transactions on Communications, 2005, 53, 1522-1533.	7.8	15
75	Signal-based evaluation of handoff algorithms. IEEE Communications Letters, 2005, 9, 790-792.	4.1	33
76	Scalable performance evaluation of a hybrid optical switch. Journal of Lightwave Technology, 2005, 23, 2961-2973.	4.6	35
77	TCP over OBS - fixed-point load and loss. Optics Express, 2005, 13, 9167.	3.4	16
78	Performance analysis of an OBS edge router. IEEE Photonics Technology Letters, 2004, 16, 695-697.	2.5	15
79	On Teletraffic Applications to OBS. IEEE Communications Letters, 2004, 8, 116-118.	4.1	43
80	Reducing Spare Capacity Through Traffic Splitting. IEEE Communications Letters, 2004, 8, 594-596.	4.1	3
81	Performance analyses of optical burst-switching networks. IEEE Journal on Selected Areas in Communications, 2003, 21, 1187-1197.	14.0	135
82	Burst segmentation benefit in optical switching. IEEE Communications Letters, 2003, 7, 127-129.	4.1	14
83	A framework for solving logical topology design problems within constrained computation time. IEEE Communications Letters, 2003, 7, 499-501.	4.1	5
84	Blocking probability for priority classes in optical burst switching networks. IEEE Communications Letters, 2002, 6, 214-216.	4.1	91
85	A framework for optical burst switching network design. IEEE Communications Letters, 2002, 6, 268-270.	4.1	43
86	Performance analysis of optical composite burst switching. IEEE Communications Letters, 2002, 6, 346-348.	4.1	31
87	A new reliability measure for telecommunication networks. IEEE Communications Letters, 2002, 6, 400-402.	4.1	2
88	Efficient distance measure for quantization of LSF and its Karhunen-Loeve transformed parameters. IEEE Transactions on Speech and Audio Processing, 2000, 8, 744-746.	1.5	6