

# Hai L. Vu

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

2,840  
citations

201385

27  
h-index

189595

50  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2453  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization and analysis of mapping knowledge domain of road safety studies. Accident Analysis and Prevention, 2018, 118, 131-145.	3.0	219
2	Performance Analysis of the IEEE 802.11 MAC Protocol for DSRC Safety Applications. IEEE Transactions on Vehicular Technology, 2011, 60, 3882-3896.	3.9	190
3	An effective spatial-temporal attention based neural network for traffic flow prediction. Transportation Research Part C: Emerging Technologies, 2019, 108, 12-28.	3.9	170
4	MAC Access Delay of IEEE 802.11 DCF. IEEE Transactions on Wireless Communications, 2007, 6, 1702-1710.	6.1	164
5	AN ESTIMATION OF SENSOR ENERGY CONSUMPTION. Progress in Electromagnetics Research B, 2009, 12, 259-295.	0.7	162
6	Studying the Safety Impact of Autonomous Vehicles Using Simulation-Based Surrogate Safety Measures. Journal of Advanced Transportation, 2018, 2018, 1-11.	0.9	160
7	Performance analyses of optical burst-switching networks. IEEE Journal on Selected Areas in Communications, 2003, 21, 1187-1197.	9.7	135
8	Decentralized signal control for urban road networks. Transportation Research Part C: Emerging Technologies, 2015, 58, 431-450.	3.9	133
9	Blocking probability for priority classes in optical burst switching networks. IEEE Communications Letters, 2002, 6, 214-216.	2.5	91
10	Characterising Green Light Optimal Speed Advisory trajectories for platoon-based optimisation. Transportation Research Part C: Emerging Technologies, 2017, 82, 43-62.	3.9	69
11	Survey of neural network-based models for short-term traffic state prediction. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1285.	4.6	59
12	Feature extraction and clustering analysis of highway congestion. Transportation Research Part C: Emerging Technologies, 2019, 100, 238-258.	3.9	56
13	H $\infty$ robust perimeter flow control in urban networks with partial information feedback. Transportation Research Part B: Methodological, 2020, 137, 47-73.	2.8	51
14	Fifty Years of Accident Analysis & Prevention: A Bibliometric and Scientometric Overview. Accident Analysis and Prevention, 2020, 144, 105568.	3.0	49
15	Percolation of heterogeneous flows uncovers the bottlenecks of infrastructure networks. Nature Communications, 2021, 12, 1254.	5.8	47
16	A framework for optical burst switching network design. IEEE Communications Letters, 2002, 6, 268-270.	2.5	43
17	On Teletraffic Applications to OBS. IEEE Communications Letters, 2004, 8, 116-118.	2.5	43
18	Packet loss analysis of the IEEE 802.15.4 MAC without acknowledgements. IEEE Communications Letters, 2007, 11, 79-81.	2.5	40

#	ARTICLE	IF	CITATIONS
19	A spatio-temporal ensemble method for large-scale traffic state prediction. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 26-44.	6.3	40
20	Mapping the knowledge domain of road safety studies: A scientometric analysis. <i>Accident Analysis and Prevention</i> , 2019, 132, 105243.	3.0	36
21	Scalable performance evaluation of a hybrid optical switch. <i>Journal of Lightwave Technology</i> , 2005, 23, 2961-2973.	2.7	35
22	TCP Performance over Wi-Fi: Joint Impact of Buffer and Channel Losses. <i>IEEE Transactions on Mobile Computing</i> , 2016, 15, 1279-1291.	3.9	35
23	Signal-based evaluation of handoff algorithms. <i>IEEE Communications Letters</i> , 2005, 9, 790-792.	2.5	33
24	Partitioning road networks using density peak graphs: Efficiency vs. accuracy. <i>Information Systems</i> , 2017, 64, 22-40.	2.4	33
25	Adaptive Admission Control for IoT Applications in Home WiFi Networks. <i>IEEE Transactions on Mobile Computing</i> , 2020, 19, 2731-2742.	3.9	33
26	Performance analysis of optical composite burst switching. <i>IEEE Communications Letters</i> , 2002, 6, 346-348.	2.5	31
27	Analytical Modeling of Multipath TCP Over Last-Mile Wireless. <i>IEEE/ACM Transactions on Networking</i> , 2017, 25, 1876-1891.	2.6	29
28	A novel urban congestion pricing scheme considering travel cost perception and level of service. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 125, 103042.	3.9	29
29	Mobility-Aware Multipath Communication for Unmanned Aerial Surveillance Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 6088-6098.	3.9	27
30	Capturing the Spatiotemporal Evolution in Road Traffic Networks. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018, 30, 1426-1439.	4.0	26
31	VoIP Capacity Analysis, Improvements, and Limits in IEEE 802.11 Wireless LAN. <i>IEEE Transactions on Vehicular Technology</i> , 2010, 59, 4553-4563.	3.9	25
32	Beacon Rate Optimization for Vehicular Safety Applications in Highway Scenarios. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 524-536.	3.9	25
33	Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT. <i>IEEE Internet of Things Journal</i> , 2021, 8, 10299-10307.	5.5	24
34	Utility optimization framework for a distributed traffic control of urban road networks. <i>Transportation Research Part B: Methodological</i> , 2017, 105, 539-558.	2.8	23
35	Boosted Genetic Algorithm Using Machine Learning for Traffic Control Optimization. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 7112-7141.	4.7	23
36	On-road virtual reality autonomous vehicle (VRAV) simulator: An empirical study on user experience. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 126, 103090.	3.9	22

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37	Dynamic V2I/V2V Cooperative Scheme for Connectivity and Throughput Enhancement. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1236-1246.	4.7	20
38	A linear bus rapid transit with transit signal priority formulation. Transportation Research, Part E: Logistics and Transportation Review, 2018, 114, 163-184.	3.7	19
39	A Hierarchical Control Framework for Coordination of Intersection Signal Timings in All Traffic Regimes. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1815-1827.	4.7	18
40	TCP over OBS - fixed-point load and loss. Optics Express, 2005, 13, 9167.	1.7	16
41	Fair Coexistence of Regular and Multipath TCP over Wireless Last-Miles. IEEE Transactions on Mobile Computing, 2019, 18, 574-587.	3.9	16
42	Macroscopic pedestrian flow simulation using Smoothed Particle Hydrodynamics (SPH). Transportation Research Part C: Emerging Technologies, 2020, 111, 334-351.	3.9	16
43	Performance analysis of an OBS edge router. IEEE Photonics Technology Letters, 2004, 16, 695-697.	1.3	15
44	The waiting time distribution for a TDMA model with a finite buffer and state-dependent service. IEEE Transactions on Communications, 2005, 53, 1522-1533.	4.9	15
45	Analysis of Multi-Hop Probabilistic Forwarding for Vehicular Safety Applications on Highways. IEEE Transactions on Mobile Computing, 2017, 16, 918-933.	3.9	15
46	Burst segmentation benefit in optical switching. IEEE Communications Letters, 2003, 7, 127-129.	2.5	14
47	Studying freeway merging conflicts using virtual reality technology. Journal of Safety Research, 2021, 76, 16-29.	1.7	13
48	RoadRank. , 2015, , .		12
49	Short-term traffic flow prediction in bike-sharing networks. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2022, 26, 461-475.	2.6	12
50	Tracking the Evolution of Congestion in Dynamic Urban Road Networks. , 2016, , .		12
51	A framework for railway transit network design with first-mile shared autonomous vehicles. Transportation Research Part C: Emerging Technologies, 2021, 130, 103223.	3.9	11
52	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.	3.6	11
53	An agent-based model for real-time bus stop-skipping and holding schemes. Transportmetrica A: Transport Science, 2021, 17, 615-647.	1.3	10
54	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.	3.7	10

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55	Modeling public acceptance of private autonomous vehicles: Value of time and motion sickness viewpoints. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 137, 103548.	3.9	10
56	Shortest Paths in Stochastic Time-Dependent Networks with Link Travel Time Correlation. <i>Transportation Research Record</i> , 2013, 2338, 58-66.	1.0	9
57	Temporal Tracking of Congested Partitions in Dynamic Urban Road Networks. <i>Transportation Research Record</i> , 2016, 2595, 88-97.	1.0	9
58	Traffic Congestion Pattern Classification Using Multiclass Active Shape Models. <i>Transportation Research Record</i> , 2017, 2645, 94-103.	1.0	9
59	Understanding bikeability: a methodology to assess urban networks. <i>Transportation</i> , 2022, 49, 897-925.	2.1	9
60	A novel metamodel-based framework for large-scale dynamic origin-destination demand calibration. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 136, 103545.	3.9	9
61	A linear framework for dynamic user equilibrium traffic assignment in a single origin-destination capacitated network. <i>Transportation Research Part B: Methodological</i> , 2019, 126, 329-352.	2.8	8
62	Scheduling and Power Control for Connectivity Enhancement in Multi-Hop I2V/V2V Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 10322-10332.	4.7	8
63	A strategic timing of arrivals to a linear slowdown processor sharing system. <i>European Journal of Operational Research</i> , 2016, 255, 496-504.	3.5	7
64	An informed user equilibrium dynamic traffic assignment problem in a multiple origin-destination stochastic network. <i>Transportation Research Part B: Methodological</i> , 2018, 115, 207-230.	2.8	7
65	Multiple model stochastic filtering for traffic density estimation on urban arterials. <i>Transportation Research Part B: Methodological</i> , 2019, 126, 280-306.	2.8	7
66	Efficient distance measure for quantization of LSF and its Karhunen-Loeve transformed parameters. <i>IEEE Transactions on Speech and Audio Processing</i> , 2000, 8, 744-746.	2.0	6
67	On Achieving the Optimal Performance of FDL Buffers Using Burst Assembly. <i>IEEE Communications Letters</i> , 2007, 11, 895-897.	2.5	6
68	Designing an Optimal Scheduler Buffer in OBS Networks. <i>Journal of Lightwave Technology</i> , 2008, 26, 2046-2054.	2.7	6
69	Application of Strategic Transport Model and Google Maps to Develop Better Clot Retrieval Stroke Service. <i>Frontiers in Neurology</i> , 2019, 10, 692.	1.1	6
70	A System Optimal Speed Advisory Framework for a Network of Connected and Autonomous Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 5727-5739.	4.7	6
71	Automated extraction of origin-destination demand for public transportation from smartcard data with pattern recognition. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 129, 103210.	3.9	6
72	A framework for solving logical topology design problems within constrained computation time. <i>IEEE Communications Letters</i> , 2003, 7, 499-501.	2.5	5

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73	Priority-Based Duplicate Burst Transmission Mechanism in Optical Burst Switching Networks. ETRI Journal, 2008, 30, 164-166.	1.2	5
74	Integration of Departure Time Choice Modeling and Dynamic Origin-Destination Demand Estimation in a Large-Scale Network. Transportation Research Record, 2020, 2674, 972-981.	1.0	5
75	Handoff Optimization Using Hidden Markov Model. IEEE Signal Processing Letters, 2011, 18, 411-414.	2.1	4
76	Performance Modeling of Broadcast Polling in IEEE 802.16 Networks with Finite-Buffered Subscriber Stations. IEEE Transactions on Wireless Communications, 2012, 11, 4514-4523.	6.1	4
77	Reducing Spare Capacity Through Traffic Splitting. IEEE Communications Letters, 2004, 8, 594-596.	2.5	3
78	Optimal designs for IEEE 802.15.4 wireless sensor networks. Wireless Communications and Mobile Computing, 2013, 13, 1681-1692.	0.8	3
79	Performance analysis and optimization of best-effort service in IEEE 802.16 networks. Wireless Communications and Mobile Computing, 2014, 14, 254-268.	0.8	3
80	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.	4.7	3
81	Influence ranking of road segments in urban road traffic networks. Computing (Vienna/New York), 2020, 102, 2333-2360.	3.2	3
82	A new reliability measure for telecommunication networks. IEEE Communications Letters, 2002, 6, 400-402.	2.5	2
83	System optimal dynamic traffic assignment: solution structures of the signal control in non-holding-back formulations. Transportmetrica B, 2019, 7, 967-991.	1.4	2
84	An Automated Detection Framework for Multiple Highway Bottleneck Activations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5678-5692.	4.7	2
85	Deflection-based transmission protocol for LAN operation in a PON system. Photonic Network Communications, 2009, 18, 129-136.	1.4	1
86	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.	2.6	1
87	Enhancing Covid-19 virus spread modeling using an activity travel model. Transportation Research, Part A: Policy and Practice, 2022, 161, 186-199.	2.0	1
88	Studying the Impact of Public Transport on Disaster Evacuation. , 2020, , .		0