Andy H F Chow

List of Publications by Year
in descending order

72 papers	1,299 citations	331670 21 h-index	395702 33 g-index
73 all docs	73 docs citations	73 times ranked	932 citing authors

#	Article	IF	Citations
1	Lane-based estimation of travel time distributions by vehicle type via vehicle re-identification using low-resolution video images. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 364-383.	4.2	5
2	Adaptive Metro Service Schedule and Train Composition With a Proximal Policy Optimization Approach Based on Deep Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6895-6906.	8.0	21
3	Special issue on methodological advancements in understanding and managing urban traffic congestion. Transportmetrica A: Transport Science, 2022, 18, 1-4.	2.0	1
4	Vehicle Re-identification for Lane-level Travel Time Estimations on Congested Urban Road Networks Using Video Images. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12877-12893.	8.0	15
5	Two-Stage Stochastic Program for Dynamic Coordinated Traffic Control Under Demand Uncertainty. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12966-12976.	8.0	7
6	Reinforcement learning for logistics and supply chain management: Methodologies, state of the art, and future opportunities. Transportation Research, Part E: Logistics and Transportation Review, 2022, 162, 102712.	7.4	41
7	Multi-agent deep reinforcement learning for adaptive coordinated metro service operations with flexible train composition. Transportation Research Part B: Methodological, 2022, 161, 36-59.	5.9	17
8	Probabilistic assessment of transport network vulnerability with equilibrium flows. International Journal of Sustainable Transportation, 2021, 15, 512-523.	4.1	10
9	Empirical Assessment and Modeling of Traffic-induced Air Pollution. Transportation Research Record, 2021, 2675, 1043-1053.	1.9	1
10	Adaptive network traffic control with an integrated model-based and data-driven approach and a decentralised solution method. Transportation Research Part C: Emerging Technologies, 2021, 128, 103154.	7.6	18
11	Adaptive signal control for bus service reliability with connected vehicle technology via reinforcement learning. Transportation Research Part C: Emerging Technologies, 2021, 129, 103264.	7.6	20
12	Calibration of stochastic link-based fundamental diagram with explicit consideration of speed heterogeneity. Transportation Research Part B: Methodological, 2021, 150, 524-539.	5.9	12
13	Pareto routing and scheduling of dynamic urban rail transit services with multi-objective cross entropy method. Transportation Research, Part E: Logistics and Transportation Review, 2021, 156, 102544.	7.4	10
14	Centralised and decentralised signal timing optimisation approaches for network traffic control. Transportation Research Part C: Emerging Technologies, 2020, 113, 108-123.	7.6	34
15	An actor-critic deep reinforcement learning approach for metro train scheduling with rolling stock circulation under stochastic demand. Transportation Research Part B: Methodological, 2020, 140, 210-235.	5.9	53
16	Dynamic System Optimum Analysis of Multi-Region Macroscopic Fundamental Diagram Systems With State-Dependent Time-Varying Delays. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4000-4016.	8.0	12
17	Dynamic modelling and optimisation of transportation systems in the connected era. Transportmetrica B, 2020, , 1-2.	2.3	0
18	Adaptive Control Strategies for Urban Network Traffic via a Decentralized Approach With User-Optimal Routing. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1697-1704.	8.0	31

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19	Neuro-dynamic programming for optimal control of macroscopic fundamental diagram systems. Transportation Research Part C: Emerging Technologies, 2020, 116, 102628.	7.6	28
20	Control strategies for dynamic motorway traffic subject to flow uncertainties. Transportmetrica B, 2019, 7, 559-575.	2.3	10
21	Centralised and decentralised signal timing optimisation approaches for network traffic control. Transportation Research Procedia, 2019, 38, 222-241.	1.5	14
22	A comparative study of centralised and decentralised architectures for network traffic control. Transportation Planning and Technology, 2019, 42, 459-469.	2.0	8
23	A neuro-dynamic programming approach for perimeter control of two urban regions with macroscopic fundamental diagrams. , 2019, , .		2
24	Modelling and managing bus service regularity with influence of prevailing traffic. Transportmetrica B, 2019, 7, 82-106.	2.3	10
25	Emerging Information and Communication Technologies for Traffic Estimation and Control. Journal of Advanced Transportation, 2018, 2018, 1-2.	1.7	3
26	Cost functions and multi-objective timetabling of mixed train services. Transportation Research, Part A: Policy and Practice, 2018, 113, 335-356.	4.2	15
27	A two-lane lattice hydrodynamic model with heterogeneous lane changing rates. Physica A: Statistical Mechanics and Its Applications, 2018, 511, 389-400.	2.6	26
28	Multi-Objective Optimization of Train Timetable with Consideration of Customer Satisfaction. Transportation Research Record, 2018, 2672, 255-265.	1.9	6
29	Multi-objective optimal control formulations for bus service reliability with traffic signals. Transportation Research Part B: Methodological, 2017, 103, 248-268.	5.9	64
30	Forecasting journey time distribution with consideration to abnormal traffic conditions. Transportation Research Part C: Emerging Technologies, 2017, 85, 292-311.	7.6	38
31	Modeling and Data Fusion of Dynamic Highway Traffic. Transportation Research Record, 2017, 2644, 92-99.	1.9	8
32	Transport System Performance Analysis with Advanced Sensing Technology. , 2017, , 2314-2325.		0
33	Performance Analysis of Centralized and Distributed Systems for Urban Traffic Control. Transportation Research Record, 2016, 2557, 66-76.	1.9	11
34	Automatic calibration of fundamental diagram for firstâ€order macroscopic freeway traffic models. Journal of Advanced Transportation, 2016, 50, 363-385.	1.7	27
35	Heterogeneous urban traffic data and their integration through kernel-based interpolation. Journal of Facilities Management, 2016, 14, 165-178.	1.8	6
36	Identification of critical combination of vulnerable links in transportation networks â€“ a global optimisation approach. Transportmetrica A: Transport Science, 2016, 12, 346-365.	2.0	54

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37	Linear complementarity system approach to macroscopic freeway traffic modelling: uniqueness and convexity. Transportmetrica A: Transport Science, 2016, 12, 142-174.	2.0	7
38	Transport System Performance Analysis with Advanced Sensing Technology. , 2016, , 1-13.		0
39	Optimization of police facility deployment with a case study in Greater London Area. Journal of Facilities Management, 2015, 13, 229-243.	1.8	6
40	Optimization of Police Facility Locationing. Transportation Research Record, 2015, 2528, 60-68.	1.9	7
41	Improving interchanges in China: the experiential phenomenon. Journal of Transport Geography, 2015, 42, 175-186.	5.0	30
42	Optimisation of dynamic motorway traffic via a parsimonious and decentralised approach. Transportation Research Part C: Emerging Technologies, 2015, 55, 69-84.	7.6	22
43	Modelling urban traffic dynamics based upon the variational formulation of kinematic waves. Transportmetrica B, 2015, 3, 169-191.	2.3	24
44	Optimisation of motorway operations via ramp metering and variable speed limits. Transportation Planning and Technology, 2015, 38, 94-110.	2.0	5
45	Specifications of Fundamental Diagrams for Dynamic Traffic Modeling. Journal of Transportation Engineering, 2015, 141, .	0.9	9
46	Quantitative Approaches to Resilience in Transport Networks. Transportmetrica A: Transport Science, 2015, 11, 751-753.	2.0	10
47	Transportation Modeling and Management. Mathematical Problems in Engineering, 2014, 2014, 1-4.	1.1	1
48	Modeling and optimization of road transport facility operations. Journal of Facilities Management, 2014, 12, 268-285.	1.8	6
49	A Dynamic Spatial Weight Matrix and Localized Spaceâ€“Time Autoregressive Integrated Moving Average for Network Modeling. Geographical Analysis, 2014, 46, 75-97.	3.5	71
50	Towards automatic model calibration of first-order traffic flow model. , 2014, , .		2
51	Empirical assessment of urban traffic congestion. Journal of Advanced Transportation, 2014, 48, 1000-1016.	1.7	73
52	Robust Optimization of Dynamic Motorway Traffic via Ramp Metering. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1374-1380.	8.0	28
53	Optimal Control of Motorways by Ramp Metering, Variable Speed Limits, and Hard-Shoulder Running. Transportation Research Record, 2014, 2470, 122-130.	1.9	20
54	Significance of Fundamental Diagrams to First-Order Macroscopic Traffic Modelling. International Journal of Transportation, 2014, 2, 15-32.	0.4	4

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55	METANET Model Improvement for Traffic Control. International Journal of Transportation, 2014, 2, 65-88.	0.4	3
56	Generalized Network Fundamental Diagram for motorway traffic management. , 2013, , .		1
57	Responsive Signal Control Design for Urban Traffic Network. , 2012, , .		0
58	Sample Size Calculation for Studying Transportation Modes from GPS Data. Procedia, Social and Behavioral Sciences, 2012, 48, 3040-3050.	0.5	12
59	METANET model improvement for traffic control. , 2011, , .		9
60	Estimation of Freeway Traffic Density with Loop Detector and Probe Vehicle Data. Transportation Research Record, 2010, 2178, 21-29.	1.9	57
61	Dynamic system optimal traffic assignment â€“ a state-dependent control theoretic approach. Transportmetrica, 2009, 5, 85-106.	1.8	32
62	Properties of system optimal traffic assignment with departure time choice and its solution method. Transportation Research Part B: Methodological, 2009, 43, 325-344.	5.9	46
63	An Empirical Analysis of Freeway Traffic Breakdown Probability Based on Bivariate Weibull Distribution. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 472-477.	0.4	6
64	Aurora Arterial Modeler â€“ A Macroscopic Tool for Urban Traffic Signal Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 361-366.	0.4	0
65	Real-time Density Estimation on Freeways With Loop Detector and Probe Data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 298-303.	0.4	4
66	TOPL: Tools for Operational Planning of Transportation Networks. , 2008, , .		19
67	Sensitivity analysis of signal control with physical queuing: Delay derivatives and an application. Transportation Research Part B: Methodological, 2007, 41, 462-477.	5.9	40
68	Control Strategies for Oversaturated Traffic. Journal of Transportation Engineering, 2004, 130, 466-478.	0.9	86
69	Dynamic Traffic Control System for Over-Saturated Traffic: Comparison of Adaptive Control Strategies. , 2002, , 973.		0
70	A Derivative-Based Control Method for Dynamic Traffic. , 2002, , 894.		0
71	Adaptive traffic control system: Control strategy, prediction, resolution, and accuracy. Journal of Advanced Transportation, 2002, 36, 323-347.	1.7	20
72	The controversial impact of pedestrian guardrails on road crossing behaviours. Evidence from Hong Kong. Urban Design International, 0, , .	2.8	1