

Wei David Fan

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,198
citations

279487

23
h-index

264894

42
g-index

88
all docs

88
docs citations

88
times ranked

1487
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Transit Route Network Design Problem with Variable Transit Demand: Genetic Algorithm Approach. <i>Journal of Transportation Engineering</i> , 2006, 132, 40-51.	0.9	230
2	Using a Simulated Annealing Algorithm to Solve the Transit Route Network Design Problem. <i>Journal of Transportation Engineering</i> , 2006, 132, 122-132.	0.9	150
3	A multinomial logit model of pedestrian-vehicle crash severity in North Carolina. <i>International Journal of Transportation Science and Technology</i> , 2019, 8, 43-52.	2.0	92
4	Tabu Search Strategies for the Public Transportation Network Optimizations with Variable Transit Demand. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2008, 23, 502-520.	6.3	85
5	Reinforcement learning approach for coordinated passenger inflow control of urban rail transit in peak hours. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 88, 1-16.	3.9	81
6	Carsharing. <i>Transportation Research Record</i> , 2008, 2063, 97-104.	1.0	74
7	Modeling single-vehicle run-off-road crash severity in rural areas: Accounting for unobserved heterogeneity and age difference. <i>Accident Analysis and Prevention</i> , 2017, 101, 124-134.	3.0	68
8	Exploring injury severity in head-on crashes using latent class clustering analysis and mixed logit model: A case study of North Carolina. <i>Accident Analysis and Prevention</i> , 2020, 135, 105388.	3.0	62
9	Q-learning approach to coordinated optimization of passenger inflow control with train skip-stopping on a urban rail transit line. <i>Computers and Industrial Engineering</i> , 2019, 127, 1131-1142.	3.4	61
10	Artificial Neural Network Travel Time Prediction Model for Buses Using Only GPS Data. <i>Journal of Public Transportation</i> , 2014, 17, 45-65.	0.3	59
11	Modelling severity of pedestrian-injury in pedestrian-vehicle crashes with latent class clustering and partial proportional odds model: A case study of North Carolina. <i>Accident Analysis and Prevention</i> , 2019, 131, 284-296.	3.0	58
12	Dynamic Travel Time Prediction Models for Buses Using Only GPS Data. <i>International Journal of Transportation Science and Technology</i> , 2015, 4, 353-366.	2.0	57
13	Do Transit Users Just Wait for Buses or Wait with Strategies?. <i>Transportation Research Record</i> , 2009, 2111, 169-176.	1.0	51
14	Day-of-the-week variations and temporal instability of factors influencing pedestrian injury severity in pedestrian-vehicle crashes: A random parameters logit approach with heterogeneity in means and variances. <i>Analytic Methods in Accident Research</i> , 2021, 29, 100152.	4.7	50
15	Calibration of microscopic traffic simulation models using metaheuristic algorithms. <i>International Journal of Transportation Science and Technology</i> , 2017, 6, 63-77.	2.0	45
16	Bi-Level Optimization Model for Public Transportation Network Redesign Problem. <i>Transportation Research Record</i> , 2011, 2263, 151-162.	1.0	41
17	Exploring the impact of connected and autonomous vehicles on freeway capacity using a revised Intelligent Driver Model. <i>Transportation Planning and Technology</i> , 2020, 43, 279-292.	0.9	41
18	Integrated Approach to Vehicle Scheduling and Bus Timetabling for an Electric Bus Line. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020, 146, .	0.8	40

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19	Modeling Pedestrian Injury Severity in Pedestrian-Vehicle Crashes in Rural and Urban Areas: Mixed Logit Model Approach. <i>Transportation Research Record</i> , 2019, 2673, 1023-1034.	1.0	33
20	Combined latent class and partial proportional odds model approach to exploring the heterogeneities in truck-involved severities at cross and T-intersections. <i>Accident Analysis and Prevention</i> , 2020, 144, 105638.	3.0	31
21	Exploring bicyclist injury severity in bicycle-vehicle crashes using latent class clustering analysis and partial proportional odds models. <i>Journal of Safety Research</i> , 2021, 76, 101-117.	1.7	29
22	Modeling pedestrian-injury severities in pedestrian-vehicle crashes considering spatiotemporal patterns: Insights from different hierarchical Bayesian random-effects models. <i>Analytic Methods in Accident Research</i> , 2020, 28, 100137.	4.7	29
23	Applying Travel-Time Reliability Measures in Identifying and Ranking Recurrent Freeway Bottlenecks at the Network Level. <i>Journal of Transportation Engineering Part A: Systems</i> , 2017, 143, .	0.8	26
24	Optimal Variable Speed Limit Control in Connected Autonomous Vehicle Environment for Relieving Freeway Congestion. <i>Journal of Transportation Engineering Part A: Systems</i> , 2019, 145, .	0.8	25
25	Pedestrian Injury Severities in Pedestrian-Vehicle Crashes and the Partial Proportional Odds Logit Model: Accounting for Age Difference. <i>Transportation Research Record</i> , 2019, 2673, 731-746.	1.0	25
26	Accessibility impact of future high speed rail corridor on the piedmont Atlantic megaregion. <i>Journal of Transport Geography</i> , 2018, 73, 1-12.	2.3	24
27	Modelling the severity of pedestrian injury in pedestrian-vehicle crashes in North Carolina: A partial proportional odds logit model approach. <i>Journal of Transportation Safety and Security</i> , 2020, 12, 358-379.	1.1	23
28	Exploring pedestrian injury severities at pedestrian-vehicle crash hotspots with an annual upward trend: A spatiotemporal analysis with latent class random parameter approach. <i>Journal of Safety Research</i> , 2021, 76, 184-196.	1.7	23
29	Management of Dynamic Vehicle Allocation for Carsharing Systems. <i>Transportation Research Record</i> , 2013, 2359, 51-58.	1.0	22
30	Data analytics approach for travel time reliability pattern analysis and prediction. <i>Journal of Modern Transportation</i> , 2019, 27, 250-265.	2.5	21
31	Combined Decision Making of Congestion Pricing and Capacity Expansion: Genetic Algorithm Approach. <i>Journal of Transportation Engineering</i> , 2014, 140, .	0.9	20
32	Analysis of head-on crash injury severity using a partial proportional odds model. <i>Journal of Transportation Safety and Security</i> , 2021, 13, 714-734.	1.1	20
33	A Tabu Search Based Heuristic Method for the Transit Route Network Design Problem. , 2008, , 387-408.		20
34	Machine Learning Based Short-Term Travel Time Prediction: Numerical Results and Comparative Analyses. <i>Sustainability</i> , 2021, 13, 7454.	1.6	19
35	Modeling severity of single vehicle run-off-road crashes in rural areas: model comparison and selection. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 493-503.	0.7	18
36	Modeling head-on crash severity on NCDOT freeways: a mixed logit model approach. <i>Canadian Journal of Civil Engineering</i> , 2019, 46, 322-328.	0.7	17

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37	Modeling bicycle volume using crowdsourced data from Strava smartphone application. <i>International Journal of Transportation Science and Technology</i> , 2020, 9, 334-343.	2.0	17
38	Time-of-day variations and the temporal instability of multi-vehicle crash injury severities under the influence of alcohol or drugs after the Great Recession. <i>Analytic Methods in Accident Research</i> , 2021, 32, 100183.	4.7	17
39	Real-Time Passenger Flow Anomaly Detection Considering Typical Time Series Clustered Characteristics at Metro Stations. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020, 146, .	0.8	16
40	A Freeway Travel Time Prediction Method Based on an XGBoost Model. <i>Sustainability</i> , 2021, 13, 8577.	1.6	16
41	Effects of Corrosion and Scouring on Barge Impact Fragility of Bridge Structures Considering Nonlinear Soil-Pile Interaction. <i>Journal of Bridge Engineering</i> , 2021, 26, .	1.4	16
42	Optimizing scheduling of long-term highway work zone projects. <i>International Journal of Transportation Science and Technology</i> , 2016, 5, 17-27.	2.0	15
43	Developing a Systematic Method for Identifying and Ranking Freeway Bottlenecks Using Vehicle Probe Data. <i>Journal of Transportation Engineering Part A: Systems</i> , 2018, 144, .	0.8	15
44	Cyclist injury severity analysis with mixed-logit models at intersections and nonintersection locations. <i>Journal of Transportation Safety and Security</i> , 2021, 13, 223-245.	1.1	15
45	Injury severity analysis of rollover crashes for passenger cars and light trucks considering temporal stability: A random parameters logit approach with heterogeneity in mean and variance. <i>Journal of Safety Research</i> , 2021, 78, 276-291.	1.7	14
46	Mixed logit approach to analyzing pedestrian injury severity in pedestrian-vehicle crashes in North Carolina: Considering time-of-day and day-of-week. <i>Traffic Injury Prevention</i> , 2021, 22, 524-529.	0.6	13
47	Extracting bus transit boarding stop information using smart card transaction data. <i>Journal of Modern Transportation</i> , 2018, 26, 209-219.	2.5	12
48	Modeling bicyclist injury severity in bicycle-motor vehicle crashes that occurred in urban and rural areas: a mixed logit analysis. <i>Canadian Journal of Civil Engineering</i> , 2019, 46, 924-933.	0.7	12
49	Mixed logit model based diagnostic analysis of bicycle-vehicle crashes at daytime and nighttime. <i>International Journal of Transportation Science and Technology</i> , 2022, 11, 738-751.	2.0	12
50	Key factors contributing to crash severity at highway-rail grade crossings. <i>Journal of Modern Transportation</i> , 2016, 24, 224-235.	2.5	11
51	Optimal Variable Speed Limit Control at a Lane Drop Bottleneck: Genetic Algorithm Approach. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	2.5	11
52	Analyzing injury severity of rear-end crashes involving large trucks using a mixed logit model: A case study in North Carolina. <i>Journal of Transportation Safety and Security</i> , 2022, 14, 723-736.	1.1	11
53	Fare incentive strategies for managing peak-hour congestion in urban rail transit networks. <i>Transportmetrica A: Transport Science</i> , 2022, 18, 166-187.	1.3	11
54	Traffic Signal Control Under Mixed Traffic With Connected and Automated Vehicles: A Transfer-Based Deep Reinforcement Learning Approach. <i>IEEE Access</i> , 2021, 9, 145228-145237.	2.6	11

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55	A Stochastic Dynamic Programming Approach for the Equipment Replacement Optimization under Uncertainty. <i>Journal of Transportation System Engineering and Information Technology</i> , 2014, 14, 76-84.	0.6	10
56	Optimal congestion pricing toll design for revenue maximization: comprehensive numerical results and implications. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 544-551.	0.7	10
57	Data analytics approach for train timetable performance measures using automatic train supervision data. <i>IET Intelligent Transport Systems</i> , 2018, 12, 568-577.	1.7	10
58	Exploring the impact of connected and autonomous vehicles on mobility and environment at signalized intersections through vehicle-to-infrastructure (V2I) and infrastructure-to-vehicle (I2V) communications. <i>Transportation Planning and Technology</i> , 2021, 44, 129-138.	0.9	10
59	Evaluating the Interference of Bicycle Traffic on Vehicle Operation on Urban Streets with Bike Lanes. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-9.	0.9	9
60	Mixed logit approach to modeling the severity of pedestrian-injury in pedestrian-vehicle crashes in North Carolina: Accounting for unobserved heterogeneity. <i>Journal of Transportation Safety and Security</i> , 2020, , 1-22.	1.1	9
61	Investigating factors affecting injury severity in bicycle-vehicle crashes: a day-of-week analysis with partial proportional odds logit models. <i>Canadian Journal of Civil Engineering</i> , 2021, 48, 941-947.	0.7	9
62	Mixed logit models for examining pedestrian injury severities at intersection and non-intersection locations. <i>Journal of Transportation Safety and Security</i> , 2022, 14, 1333-1357.	1.1	9
63	Equipment Replacement Optimization. <i>Transportation Research Record</i> , 2011, 2220, 88-98.	1.0	8
64	Optimization of Equipment Replacement. <i>Transportation Research Record</i> , 2012, 2292, 160-170.	1.0	8
65	Complete Estimation Approach for Characterizing Passenger Travel Time Distributions at Rail Transit Stations. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020, 146, .	0.8	8
66	Exploring the effects of connected and automated vehicles at fixed and actuated signalized intersections with different market penetration rates. <i>Transportation Planning and Technology</i> , 2021, 44, 577-593.	0.9	8
67	Tabu Search Strategies for Variable Speed Limit Control at a Lane Drop Bottleneck. <i>Journal of Transportation Engineering Part A: Systems</i> , 2018, 144, .	0.8	7
68	Service-Oriented Load Balancing Approach to Alleviating Peak-Hour Congestion in a Metro Network Based on Multi-Path Accessibility. <i>Sustainability</i> , 2019, 11, 1293.	1.6	7
69	Modeling and Evaluating Public Transit Equity and Accessibility by Integrating General Transit Feed Specification Data: Case Study of the City of Charlotte. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020, 146, .	0.8	7
70	Bicycle Ridership Using Crowdsourced Data: Ordered Probit Model Approach. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020, 146, 04020076.	0.8	7
71	Modeling head-on crash severity with drivers under the influence of alcohol or drugs (DUI) and non-DUI. <i>Traffic Injury Prevention</i> , 2020, 21, 7-12.	0.6	6
72	Investigating contributing factors to injury severity levels in crashes involving pedestrians and cyclists using latent class clustering analysis and mixed logit models. <i>Journal of Transportation Safety and Security</i> , 2022, 14, 1674-1701.	1.1	6

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73	A bi-level metaheuristic approach to designing Optimal Bus Transit Route Network. , 2013, , .		5
74	Evaluating the Wheelset Health Status of Rail Transit Vehicles: Synthesis of Wear Mechanism and Data-Driven Analysis. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	5
75	Bi-level optimization of long-term highway work zone scheduling considering elastic demand. Smart and Resilient Transportation, 2021, 3, 118-130.	1.6	4
76	Congestion pricing and optimal tolling: The importance of both locations and levels. , 2013, , .		3
77	Optimal congestion pricing toll design under multiclass transportation network schemes: Genetic algorithm approaches. Case Studies on Transport Policy, 2016, 4, 78-87.	1.1	3
78	Social welfare maximization by optimal toll design for congestion management: models and comprehensive numerical results. Transportation Letters, 2017, 9, 81-89.	1.8	3
79	Exploring truck driver-injury severity at intersections considering heterogeneity in latent classes: A case study of North Carolina. International Journal of Transportation Science and Technology, 2021, 10, 110-120.	2.0	3
80	Arterial Signal Timing and Coordination: Sensitivity Analyses and Partition Techniques. , 2010, , .		2
81	Mechanical characterisation of interface shear strain of multi-layer composite pavement. International Journal of Pavement Engineering, 2021, 22, 1116-1122.	2.2	2
82	Data Fusion Approach for Evaluating Route Choice Models in Large-Scale Complex Urban Rail Transit Networks. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	1
83	Optimizing Transit Equity and Accessibility of the City of Charlotte, North Carolina, by Integrating Transit Gap Index, a General Transit Feed Specification Data-Relevant Performance Metric. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	0.8	1
84	Investigating the operational performance of connected and autonomous vehicles on signalized superstreets. Transportation Planning and Technology, 0, , 1-14.	0.9	1
85	Evaluating the Performance of Connected and Automated Vehicles in Fixed Signal-Controlled Conventional Intersections and Superstreets with Platooning-Based Trajectory Planning. Journal of Advanced Transportation, 2022, 2022, 1-18.	0.9	1
86	Platooning-based trajectory planning of connected and autonomous vehicles at superstreets. Transportation Planning and Technology, 0, , 1-17.	0.9	1
87	Reliability Measure-Based Data Analytics Approach to Identifying and Ranking Recurrent Bottlenecks in Urban Rail Transit Networks. Journal of Transportation Engineering Part A: Systems, 2020, 146, 04020103.	0.8	0
88	Evaluating the Impacts of Optimization Horizon on the Shared Autonomous Vehicle Reservation Request System. Journal of Advanced Transportation, 2022, 2022, 1-19.	0.9	0