Wei David Fan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2306127/publications.pdf

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	Analyzing injury severity of rear-end crashes involving large trucks using a mixed logit model: A case study in North Carolina. Journal of Transportation Safety and Security, 2022, 14, 723-736.	1.1	11
2	Fare incentive strategies for managing peak-hour congestion in urban rail transit networks. Transportmetrica A: Transport Science, 2022, 18, 166-187.	1.3	11
3	Mixed logit models for examining pedestrian injury severities at intersection and non-intersection locations. Journal of Transportation Safety and Security, 2022, 14, 1333-1357.	1.1	9
4	Investigating contributing factors to injury severity levels in crashes involving pedestrians and cyclists using latent class clustering analysis and mixed logit models. Journal of Transportation Safety and Security, 2022, 14, 1674-1701.	1.1	6
5	Mixed logit model based diagnostic analysis of bicycle-vehicle crashes at daytime and nighttime. International Journal of Transportation Science and Technology, 2022, 11, 738-751.	2.0	12
6	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
7	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
8	Mechanical characterisation of interface shear strain of multi-layer composite pavement. International Journal of Pavement Engineering, 2021, 22, 1116-1122.	2.2	2
9	Exploring bicyclist injury severity in bicycle-vehicle crashes using latent class clustering analysis and partial proportional odds models. Journal of Safety Research, 2021, 76, 101-117.	1.7	29
10	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. Analytic Methods in Accident Research, 2021, 29, 100152.	4.7	50
11	Investigating factors affecting injury severity in bicycleâ€“vehicle crashes: a day-of-week analysis with partial proportional odds logit models. Canadian Journal of Civil Engineering, 2021, 48, 941-947.	0.7	9
12	Cyclist injury severity analysis with mixed-logit models at intersections and nonintersection locations. Journal of Transportation Safety and Security, 2021, 13, 223-245.	1.1	15
13	Analysis of head-on crash injury severity using a partial proportional odds model. Journal of Transportation Safety and Security, 2021, 13, 714-734.	1.1	20
14	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. Transportation Planning and Technology, 2021, 44, 129-138.	0.9	10
15	Exploring pedestrian injury severities at pedestrian-vehicle crash hotspots with an annual upward trend: A spatiotemporal analysis with latent class random parameter approach. Journal of Safety Research, 2021, 76, 184-196.	1.7	23
16	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
17	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
18	Exploring the effects of connected and automated vehicles at fixed and actuated signalized intersections with different market penetration rates. Transportation Planning and Technology, 2021, 44, 577-593.	0.9	8

#	Article	IF	Citations
19	Mixed logit approach to analyzing pedestrian injury severity in pedestrian-vehicle crashes in North Carolina: Considering time-of-day and day-of-week. Traffic Injury Prevention, 2021, 22, 524-529.	0.6	13
20	Machine Learning Based Short-Term Travel Time Prediction: Numerical Results and Comparative Analyses. Sustainability, 2021, 13, 7454.	1.6	19
21	A Freeway Travel Time Prediction Method Based on an XGBoost Model. Sustainability, 2021, 13, 8577.	1.6	16
22	Bi-level optimization of long-term highway work zone scheduling considering elastic demand. Smart and Resilient Transportation, 2021, 3, 118-130.	1.6	4
23	Effects of Corrosion and Scouring on Barge Impact Fragility of Bridge Structures Considering Nonlinear Soilâ€“Pile Interaction. Journal of Bridge Engineering, 2021, 26, .	1.4	16
24	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. Journal of Safety Research, 2021, 78, 276-291.	1.7	14
25	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. Analytic Methods in Accident Research, 2021, 32, 100183.	4.7	17
26	Traffic Signal Control Under Mixed Traffic With Connected and Automated Vehicles: A Transfer-Based Deep Reinforcement Learning Approach. IEEE Access, 2021, 9, 145228-145237.	2.6	11
27	Modelling the severity of pedestrian injury in pedestrianâ€”vehicle crashes in North Carolina: A partial proportional odds logit model approach. Journal of Transportation Safety and Security, 2020, 12, 358-379.	1.1	23
28	Modeling head-on crash severity with drivers under the influence of alcohol or drugs (DUI) and non-DUI. Traffic Injury Prevention, 2020, 21, 7-12.	0.6	6
29	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
30	Integrated Approach to Vehicle Scheduling and Bus Timetabling for an Electric Bus Line. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	40
31	Exploring injury severity in head-on crashes using latent class clustering analysis and mixed logit model: A case study of North Carolina. Accident Analysis and Prevention, 2020, 135, 105388.	3.0	62
32	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
33	Combined latent class and partial proportional odds model approach to exploring the heterogeneities in truck-involved severities at cross and T-intersections. Accident Analysis and Prevention, 2020, 144, 105638.	3.0	31
34	Modeling and Evaluating Public Transit Equity and Accessibility by Integrating General Transit Feed Specification Data: Case Study of the City of Charlotte. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	7
35	Mixed logit approach to modeling the severity of pedestrian-injury in pedestrian-vehicle crashes in North Carolina: Accounting for unobserved heterogeneity. Journal of Transportation Safety and Security, 2020, , 1-22.	1.1	9
36	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

#	Article	IF	Citations
37	Complete Estimation Approach for Characterizing Passenger Travel Time Distributions at Rail Transit Stations. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	8
38	Bicycle Ridership Using Crowdsourced Data: Ordered Probit Model Approach. Journal of Transportation Engineering Part A: Systems, 2020, 146, 04020076.	0.8	7
39	Exploring the impact of connected and autonomous vehicles on freeway capacity using a revised Intelligent Driver Model. Transportation Planning and Technology, 2020, 43, 279-292.	0.9	41
40	Real-Time Passenger Flow Anomaly Detection Considering Typical Time Series Clustered Characteristics at Metro Stations. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	16
41	Modeling bicycle volume using crowdsourced data from Strava smartphone application. International Journal of Transportation Science and Technology, 2020, 9, 334-343.	2.0	17
42	Modeling pedestrian-injury severities in pedestrian-vehicle crashes considering spatiotemporal patterns: Insights from different hierarchical Bayesian random-effects models. Analytic Methods in Accident Research, 2020, 28, 100137.	4.7	29
43	Q-learning approach to coordinated optimization of passenger inflow control with train skip-stopping on a urban rail transit line. Computers and Industrial Engineering, 2019, 127, 1131-1142.	3.4	61
44	Modelling severity of pedestrian-injury in pedestrian-vehicle crashes with latent class clustering and partial proportional odds model: A case study of North Carolina. Accident Analysis and Prevention, 2019, 131, 284-296.	3.0	58
45	Data analytics approach for travel time reliability pattern analysis and prediction. Journal of Modern Transportation, 2019, 27, 250-265.	2.5	21
46	Optimal Variable Speed Limit Control in Connected Autonomous Vehicle Environment for Relieving Freeway Congestion. Journal of Transportation Engineering Part A: Systems, 2019, 145, .	0.8	25
47	Modeling Pedestrian Injury Severity in Pedestrian-Vehicle Crashes in Rural and Urban Areas: Mixed Logit Model Approach. Transportation Research Record, 2019, 2673, 1023-1034.	1.0	33
48	Pedestrian Injury Severities in Pedestrian-Vehicle Crashes and the Partial Proportional Odds Logit Model: Accounting for Age Difference. Transportation Research Record, 2019, 2673, 731-746.	1.0	25
49	Service-Oriented Load Balancing Approach to Alleviating Peak-Hour Congestion in a Metro Network Based on Multi-Path Accessibility. Sustainability, 2019, 11, 1293.	1.6	7
50	Modeling bicyclist injury severity in bicycleâ€“motor vehicle crashes that occurred in urban and rural areas: a mixed logit analysis. Canadian Journal of Civil Engineering, 2019, 46, 924-933.	0.7	12
51	A multinomial logit model of pedestrian-vehicle crash severity in North Carolina. International Journal of Transportation Science and Technology, 2019, 8, 43-52.	2.0	92
52	Modeling head-on crash severity on NCDOT freeways: a mixed logit model approach. Canadian Journal of Civil Engineering, 2019, 46, 322-328.	0.7	17
53	Reinforcement learning approach for coordinated passenger inflow control of urban rail transit in peak hours. Transportation Research Part C: Emerging Technologies, 2018, 88, 1-16.	3.9	81
54	Developing a Systematic Method for Identifying and Ranking Freeway Bottlenecks Using Vehicle Probe Data. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	0.8	15

#	Article	IF	Citations
55	Accessibility impact of future high speed rail corridor on the piedmont Atlantic megaregion. Journal of Transport Geography, 2018, 73, 1-12.	2.3	24
56	Extracting bus transit boarding stop information using smart card transaction data. Journal of Modern Transportation, 2018, 26, 209-219.	2.5	12
57	Data analytics approach for train timetable performance measures using automatic train supervision data. IET Intelligent Transport Systems, 2018, 12, 568-577.	1.7	10
58	Optimal Variable Speed Limit Control at a Lane Drop Bottleneck: Genetic Algorithm Approach. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	11
59	Tabu Search Strategies for Variable Speed Limit Control at a Lane Drop Bottleneck. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	0.8	7
60	Social welfare maximization by optimal toll design for congestion management: models and comprehensive numerical results. Transportation Letters, 2017, 9, 81-89.	1.8	3
61	Modeling single-vehicle run-off-road crash severity in rural areas: Accounting for unobserved heterogeneity and age difference. Accident Analysis and Prevention, 2017, 101, 124-134.	3.0	68
62	Calibration of microscopic traffic simulation models using metaheuristic algorithms. International Journal of Transportation Science and Technology, 2017, 6, 63-77.	2.0	45
63	Applying Travel-Time Reliability Measures in Identifying and Ranking Recurrent Freeway Bottlenecks at the Network Level. Journal of Transportation Engineering Part A: Systems, 2017, 143, .	0.8	26
64	Evaluating the Interference of Bicycle Traffic on Vehicle Operation on Urban Streets with Bike Lanes. Journal of Advanced Transportation, 2017, 2017, 1-9.	0.9	9
65	Key factors contributing to crash severity at highway-rail grade crossings. Journal of Modern Transportation, 2016, 24, 224-235.	2.5	11
66	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
67	Modeling severity of single vehicle run-off-road crashes in rural areas: model comparison and selection. Canadian Journal of Civil Engineering, 2016, 43, 493-503.	0.7	18
68	Optimizing scheduling of long-term highway work zone projects. International Journal of Transportation Science and Technology, 2016, 5, 17-27.	2.0	15
69	Optimal congestion pricing toll design for revenue maximization: comprehensive numerical results and implications. Canadian Journal of Civil Engineering, 2015, 42, 544-551.	0.7	10
70	Dynamic Travel Time Prediction Models for Buses Using Only GPS Data. International Journal of Transportation Science and Technology, 2015, 4, 353-366.	2.0	57
71	A Stochastic Dynamic Programming Approach for the Equipment Replacement Optimization under Uncertainty. Journal of Transportation System Engineering and Information Technology, 2014, 14, 76-84.	0.6	10
72	Combined Decision Making of Congestion Pricing and Capacity Expansion: Genetic Algorithm Approach. Journal of Transportation Engineering, 2014, 140, .	0.9	20

#	Article	IF	Citations
73	Artificial Neural Network Travel Time Prediction Model for Buses Using Only GPS Data. Journal of Public Transportation, 2014, 17, 45-65.	0.3	59
74	A bi-level metaheuristic approach to designing Optimal Bus Transit Route Network. , 2013, , .		5
75	Congestion pricing and optimal tolling: The importance of both locations and levels. , 2013, , .		3
76	Management of Dynamic Vehicle Allocation for Carsharing Systems. Transportation Research Record, 2013, 2359, 51-58.	1.0	22
77	Optimization of Equipment Replacement. Transportation Research Record, 2012, 2292, 160-170.	1.0	8
78	Bi-Level Optimization Model for Public Transportation Network Redesign Problem. Transportation Research Record, 2011, 2263, 151-162.	1.0	41
79	Equipment Replacement Optimization. Transportation Research Record, 2011, 2220, 88-98.	1.0	8
80	Arterial Signal Timing and Coordination: Sensitivity Analyses and Partition Techniques. , 2010, , .		2
81	Do Transit Users Just Wait for Buses or Wait with Strategies?. Transportation Research Record, 2009, 2111, 169-176.	1.0	51
82	Tabu Search Strategies for the Public Transportation Network Optimizations with Variable Transit Demand. Computer-Aided Civil and Infrastructure Engineering, 2008, 23, 502-520.	6.3	85
83	Carsharing. Transportation Research Record, 2008, 2063, 97-104.	1.0	74
84	A Tabu Search Based Heuristic Method for the Transit Route Network Design Problem. , 2008, , 387-408.		20
85	Optimal Transit Route Network Design Problem with Variable Transit Demand: Genetic Algorithm Approach. Journal of Transportation Engineering, 2006, 132, 40-51.	0.9	230
86	Using a Simulated Annealing Algorithm to Solve the Transit Route Network Design Problem. Journal of Transportation Engineering, 2006, 132, 122-132.	0.9	150
87	Investigating the operational performance of connected and autonomous vehicles on signalized superstreets. Transportation Planning and Technology, 0, , 1-14.	0.9	1
88	Platooning-based trajectory planning of connected and autonomous vehicles at superstreets. Transportation Planning and Technology, 0, , 1-17.	0.9	1