Liping Fu

List of Publications by Year
in descending order

117 papers	4,315 citations	117571 34 h-index	123376 61 g-index
129 all docs	129 docs citations	129 times ranked	3673 citing authors

#	Article	IF	Citations
1	Physiological responses and stress levels of high-speed rail train drivers under various operating conditions - a simulator study in China. International Journal of Rail Transportation, 2023, 11, 449-464.	1.8	6
2	Data-Driven Detection and Assessment for Urban Railway Transit Driver Fatigue in Real Work Conditions. Transportation Research Record, 2023, 2677, 1367-1375.	1.0	5
3	Credit- and permit-based travel demand management state-of-the-art methodological advances. Transportmetrica A: Transport Science, 2022, 18, 5-28.	1.3	11
4	A proactive lane-changing risk prediction framework considering driving intention recognition and different lane-changing patterns. Accident Analysis and Prevention, 2022, 164, 106500.	3.0	25
5	Advances in sustainable winter road maintenance and management for future smart cities. , 2022, , 625-659.		2
6	Determination of Optimum Salting Rates for Asphalt Pavements in a Canadian Climate. Journal of Cold Regions Engineering - ASCE, 2022, 36, .	0.5	1
7	Performance evaluation of road surface temperature forecasts. Canadian Journal of Civil Engineering, 2021, 48, 532-539.	0.7	2
8	Driver Behavior Classification at Stop-Controlled Intersections Using Video-Based Trajectory Data. Sustainability, 2021, 13, 1404.	1.6	7
9	A GIS approach to the development of a segment-level derailment prediction model. Accident Analysis and Prevention, 2021, 151, 105897.	3.0	3
10	A resource optimization framework for improving railway-highway grade crossing safety in Canada. Canadian Journal of Civil Engineering, 2021, 48, 1130-1138.	0.7	1
11	Real-time winter road surface condition monitoring using an improved residual CNN. Canadian Journal of Civil Engineering, 2021, 48, 1215-1222.	0.7	11
12	Modeling train timetables as images: A cost-sensitive deep learning framework for delay propagation pattern recognition. Expert Systems With Applications, 2021, 177, 114996.	4.4	21
13	Multi-Intersection Control with Deep Reinforcement Learning and Ring-and-Barrier Controllers. Transportation Research Record, 2021, 2675, 308-319.	1.0	7
14	A hybrid model to improve the train running time prediction ability during high-speed railway disruptions. Safety Science, 2020, 122, 104510.	2.6	34
15	Is speeding more likely during weekend night hours? Evidence from sensor-collected data in Montréal. Canadian Journal of Civil Engineering, 2020, 47, 1046-1049.	0.7	4
16	Cause-specific investigation of primary delays of Wuhan–Guangzhou HSR. Transportation Letters, 2020, 12, 451-464.	1.8	7
17	Impact of right-turn channelization on pedestrian safety at signalized intersections. Accident Analysis and Prevention, 2020, 136, 105399.	3.0	15
18	A deep learning approach for multi-attribute data: A study of train delay prediction in railway systems. Information Sciences, 2020, 516, 234-253.	4.0	70

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19	Modeling train operation as sequences: A study of delay prediction with operation and weather data. Transportation Research, Part E: Logistics and Transportation Review, 2020, 141, 102022.	3.7	46
20	Delay recovery model for high-speed trains with compressed train dwell time and running time. Railway Engineering Science, 2020, 28, 424-434.	2.7	6
21	A Bayesian network model to predict the effects of interruptions on train operations. Transportation Research Part C: Emerging Technologies, 2020, 114, 338-358.	3.9	45
22	Introduction for Canadian Journal of Civil Engineering Special Issue of ICTIS 2017. Canadian Journal of Civil Engineering, 2019, 46, v-v.	0.7	0
23	Train Dispatching Management With Data- Driven Approaches: A Comprehensive Review and Appraisal. IEEE Access, 2019, 7, 114547-114571.	2.6	49
24	Development of Zonal-Specific Semivariograms for a Strategic RWIS Network Optimization: Case Study. Journal of Infrastructure Systems, 2019, 25, 05019004.	1.0	1
25	Effects of winter weather on traffic operations and optimization of signalized intersections. Journal of Traffic and Transportation Engineering (English Edition), 2019, 6, 196-208.	2.0	15
26	Evaluation of Alternative Pre-trained Convolutional Neural Networks for Winter Road Surface Condition Monitoring. , 2019, , .		13
27	A data-driven time supplements allocation model for train operations on high-speed railways. International Journal of Rail Transportation, 2019, 7, 140-157.	1.8	8
28	A hybrid Bayesian network model for predicting delays in train operations. Computers and Industrial Engineering, 2019, 127, 1214-1222.	3.4	76
29	Forecasting primary delay recovery of high-speed railway using multiple linear regression, supporting vector machine, artificial neural network, and random forest regression. Canadian Journal of Civil Engineering, 2019, 46, 353-363.	0.7	29
30	Galaxyâ€"Galaxy Weak-lensing Measurements from SDSS. II. Host Halo Properties of Galaxy Groups. Astrophysical Journal, 2018, 862, 4.	1.6	26
31	Stochastic Model of Train Running Time and Arrival Delay: A Case Study of Wuhanâ€"Guangzhou High-Speed Rail. Transportation Research Record, 2018, 2672, 215-223.	1.0	22
32	Benchmarking regions using a heteroskedastic grouped random parameters model with heterogeneity in mean and variance: Applications to grade crossing safety analysis. Analytic Methods in Accident Research, 2018, 19, 33-48.	4.7	45
33	Using a flexible multivariate latent class approach to model correlated outcomes: A joint analysis of pedestrian and cyclist injuries. Analytic Methods in Accident Research, 2017, 13, 16-27.	4.7	66
34	A risk-based approach to winter road surface condition classification. Canadian Journal of Civil Engineering, 2017, 44, 182-191.	0.7	2
35	Statistical investigation on train primary delay based on real records: evidence from Wuhanâ€"Guangzhou HSR. International Journal of Rail Transportation, 2017, 5, 170-189.	1.8	40
36	Spatiotemporal variability of road weather conditions and optimal RWIS density â€" an empirical investigation. Canadian Journal of Civil Engineering, 2017, 44, 691-699.	0.7	7

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37	Location Optimization of Road Weather Information System (RWIS) Network Considering the Needs of Winter Road Maintenance and the Traveling Public. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 57-71.	6.3	28
38	Bio-based materials for improving winter pavement friction. Canadian Journal of Civil Engineering, 2017, 44, 99-105.	0.7	7
39	Development of a global road safety performance function using deep neural networks. International Journal of Transportation Science and Technology, 2017, 6, 159-173.	2.0	30
40	Identifying vehicle driver injury severity factors at highway-railway grade crossings using data mining algorithms. , 2017, , .		5
41	Data-driven models for predicting delay recovery in high-speed rail. , 2017, , .		10
42	Identifying areas of high risk for collisions: A Canda-wide study of grade crossing safety. , 2017, , .		2
43	Continual retiming of traffic signals using big travel time data. , 2017, , .		3
44	Model-Based Versus Data-Driven Approach for Road Safety Analysis: Do More Data Help?. Transportation Research Record, 2016, 2601, 33-41.	1.0	8
45	Multilevel Dirichlet process mixture analysis of railway grade crossing crash data. Analytic Methods in Accident Research, 2016, 9, 27-43.	4.7	30
46	Bayesian nonparametric modeling in transportation safety studies: Applications in univariate and multivariate settings. Analytic Methods in Accident Research, 2016, 12, 18-34.	4.7	20
47	Optimum winter road maintenance: effect of pavement types on snow melting performance of road salts. Canadian Journal of Civil Engineering, 2016, 43, 802-811.	0.7	20
48	A multiâ€class transit assignment model for estimating transit passenger flowsâ€"a case study of Beijing subway network. Journal of Advanced Transportation, 2016, 50, 50-68.	0.9	30
49	Does winter road maintenance help reduce air emissions and fuel consumption?. Transportation Research, Part D: Transport and Environment, 2016, 48, 85-95.	3.2	9
50	A video-based approach to calibrating car-following parameters in VISSIM for urban traffic. International Journal of Transportation Science and Technology, 2016, 5, 1-9.	2.0	28
51	Connected Vehicle Solution for Winter Road Surface Condition Monitoring. Transportation Research Record, 2016, 2551, 62-72.	1.0	21
52	Injury severity analysis: comparison of multilevel logistic regression models and effects of collision data aggregation. Journal of Modern Transportation, 2016, 24, 73-87.	2.5	18
53	Analyzing injury severity factors at highway railway grade crossing accidents involving vulnerable road users: A comparative study. Traffic Injury Prevention, 2016, 17, 833-841.	0.6	40
54	Developing Safety Performance Functions for Railway Grade Crossings: A Case Study of Canada. , 2015, , .		4

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55	Using microscopic video data measures for driver behavior analysis during adverse winter weather: opportunities and challenges. Journal of Modern Transportation, 2015, 23, 81-92.	2.5	13
56	Winter Road Surface Condition Forecasting. Journal of Infrastructure Systems, 2015, 21, .	1.0	5
57	Prediction of Pavement Surface Temperature Using Meteorological Data for Optimal Winter Operations in Parking Lots. , 2015, , .		6
58	Winter Road Surface Condition Monitoring. Transportation Research Record, 2015, 2482, 46-56.	1.0	6
59	Field evaluation of the performance of alternative deicers for winter maintenance of transportation facilities. Canadian Journal of Civil Engineering, 2015, 42, 437-448.	0.7	14
60	Editorial for the Journal of Accident Analysis and Prevention Special Issue of ICTIS 2013. Accident Analysis and Prevention, 2015, 81, 231.	3.0	0
61	Road weather information system stations â€" where and how many to install: a cost benefit analysis approach. Canadian Journal of Civil Engineering, 2015, 42, 57-66.	0.7	13
62	Identification of crash hotspots using kernel density estimation and kriging methods: a comparison. Journal of Modern Transportation, 2015, 23, 93-106.	2.5	106
63	Optimization of headways with stopâ€skipping control: a case study of bus rapid transit system. Journal of Advanced Transportation, 2015, 49, 385-401.	0.9	44
64	Winter Contaminants of Parking Lots and Sidewalks: Friction Characteristics and Slipping Risks. Journal of Cold Regions Engineering - ASCE, 2015, 29, 04014018.	0.5	3
65	Modeling the Snow Melting Performance of Salt: A Mechanistic-Empirical Approach. , 2015, , .		3
66	Effectiveness of anti-icing operations for snow and ice control of parking lots and sidewalks. Canadian Journal of Civil Engineering, 2014, 41, 523-530.	0.7	15
67	Bayesian methodology to estimate and update safety performance functions under limited data conditions: A sensitivity analysis. Accident Analysis and Prevention, 2014, 64, 41-51.	3.0	25
68	Deicing Performance of Road Salt. Transportation Research Record, 2014, 2440, 76-84.	1.0	21
69	Evaluation of alternative criteria for determining the optimal location of RWIS stations. Journal of Modern Transportation, 2013, 21, 17-27.	2.5	19
70	Effect of Winter Weather and Road Surface Conditions on Macroscopic Traffic Parameters. Transportation Research Record, 2013, 2329, 54-62.	1.0	38
71	Bayesian road safety analysis: Incorporation of past evidence and effect of hyper-prior choice. Journal of Safety Research, 2013, 46, 31-40.	1.7	24
72	CFHTLenS: combined probe cosmological model comparison using 2D weak gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2200-2220.	1.6	303

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73	A Nonparametric Approach to Road Safety Analysis - Does It Make a Difference?. , 2013, , .		0
74	Field Test of Organic Deicers as Prewetting and Anti-Icing Agents for Winter Road Maintenance. Transportation Research Record, 2012, 2272, 130-135.	1.0	26
75	Modeling hazardous materials risks for different train make-up plans. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 907-918.	3.7	25
76	CFHTLenS: the Canadaâ€"Franceâ€"Hawaii Telescope Lensing Survey. Monthly Notices of the Royal Astronomical Society, 2012, 427, 146-166.	1.6	596
77	A disaggregate model for quantifying the safety effects of winter road maintenance activities at an operational level. Accident Analysis and Prevention, 2012, 48, 368-378.	3.0	52
78	A latent class modeling approach for identifying vehicle driver injury severity factors at highway-railway crossings. Accident Analysis and Prevention, 2012, 47, 119-127.	3.0	146
79	Winter Road Safety: Effects of Weather, Maintenance Operations, and Road Characteristics. , 2011, , .		3
80	Accident Prediction Models for Winter Road Safety. Transportation Research Record, 2011, 2237, 144-151.	1.0	21
81	Grade Xâ€"A Network Screening and Countermeasure Analysis Tool for Highway-Railway Grade Crossings. , 2011, , .		1
82	Reducing the threat of in-transit derailments involving dangerous goods through effective placement along the train consist. Accident Analysis and Prevention, 2011, 43, 613-620.	3.0	45
83	Quantifying safety benefit of winter road maintenance: Accident frequency modeling. Accident Analysis and Prevention, 2010, 42, 1878-1887.	3.0	125
84	Effective placement of dangerous goods cars in rail yard marshaling operation. Canadian Journal of Civil Engineering, 2010, 37, 753-762.	0.7	13
85	An automatic image recognition system for winter road surface condition classification. , 2010, , .		64
86	An Efficient Optimization Approach to Real-Time Coordinated and Integrated Freeway Traffic Control. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 873-884.	4.7	55
87	Optimizing winter road maintenance operations under real-time information. European Journal of Operational Research, 2009, 196, 332-341.	3.5	38
88	How to Incorporate Accident Severity and Vehicle Occupancy into the Hot Spot Identification Process?. Transportation Research Record, 2009, 2102, 53-60.	1.0	25
89	Performance Metrics and Data Mining for Assessing Schedule Qualities in Paratransit. Transportation Research Record, 2008, 2072, 139-147.	1.0	11
90	Predicting Bus Arrival Time on the Basis of Global Positioning System Data. Transportation Research Record, 2007, 2034, 62-72.	1.0	92

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91	Quantifying Technical Efficiency of Paratransit Systems by Data Envelopment Analysis Method. Transportation Research Record, 2007, 2034, 115-122.	1.0	24
92	Bayesian multiple testing procedures for hotspot identification. Accident Analysis and Prevention, 2007, 39, 1192-1201.	3.0	56
93	Estimating countermeasure effects for reducing collisions at highway–railway grade crossings. Accident Analysis and Prevention, 2007, 39, 406-416.	3.0	55
94	A Comparative Study of Alternative Model Structures and Criteria for Ranking Locations for Safety Improvements. Networks and Spatial Economics, 2006, 6, 97-110.	0.7	19
95	Effectiveness of Alternative Chemicals for Snow Removal on Highways. Transportation Research Record, 2006, 1948, 125-134.	1.0	2
96	Alternative Risk Models for Ranking Locations for Safety Improvement. Transportation Research Record, 2005, 1908, 1-8.	1.0	32
97	Alternative Risk Models for Ranking Locations for Safety Improvement. Transportation Research Record, 2005, 1908, 1-8.	1.0	69
98	A fuzzy queuing model for real–time, adaptive prediction of incident delay for ATMS/ATIS. Transportation Planning and Technology, 2004, 27, 1-23.	0.9	4
99	Fleet Size and Mix Optimization for Paratransit Services. Transportation Research Record, 2004, 1884, 39-46.	1.0	35
100	Risk-Based Model for Identifying Highway-Rail Grade Crossing Blackspots. Transportation Research Record, 2004, 1862, 127-135.	1.0	48
101	OptimalCMS: A Decision Support System for Locating Changeable Message Signs. , 2004, , 228.		2
102	Cellular Phone Based Real-Time Bus Arrival Information Systems. , 2004, , 250.		0
103	Real-Time Optimization Model for Dynamic Scheduling of Transit Operations. Transportation Research Record, 2003, 1857, 48-55.	1.0	153
104	Analytical Model for Paratransit Capacity and Quality-of-Service Analysis. Transportation Research Record, 2003, 1841, 81-89.	1.0	21
105	Design and Implementation of Bus–Holding Control Strategies with Real-Time Information. Transportation Research Record, 2002, 1791, 6-12.	1.0	102
106	Planning and Design of Flex-Route Transit Services. Transportation Research Record, 2002, 1791, 59-66.	1.0	48
107	A simulation model for evaluating advanced dial-a-ride paratransit systems. Transportation Research, Part A: Policy and Practice, 2002, 36, 291-307.	2.0	44
108	Scheduling dial-a-ride paratransit under time-varying, stochastic congestion. Transportation Research Part B: Methodological, 2002, 36, 485-506.	2.8	90

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109	An adaptive routing algorithm for in-vehicle route guidance systems with real-time information. Transportation Research Part B: Methodological, 2001, 35, 749-765.	2.8	106
110	Simulation Model for Evaluating Intelligent Paratransit Systems. Transportation Research Record, 2001, 1760, 93-99.	1.0	8
111	Potential Effects of Automatic Vehicle Location and Computer-Aided Dispatch Technology on Paratransit Performance: A Simulation Study. Transportation Research Record, 2001, 1760, 107-113.	1.0	5
112	Estimation of timeâ€dependent, stochastic route travel times using artificial neural networks. Transportation Planning and Technology, 2000, 24, 25-48.	0.9	19
113	Delay Variability at Signalized Intersections. Transportation Research Record, 2000, 1710, 215-221.	1.0	52
114	On-Line and Off-Line Routing and Scheduling of Dial-a-Ride Paratransit Vehicles. Computer-Aided Civil and Infrastructure Engineering, 1999, 14, 309-319.	6.3	24
115	Improving Paratransit Scheduling by Accounting for Dynamic and Stochastic Variations in Travel Time. Transportation Research Record, 1999, 1666, 74-81.	1.0	21
116	Expected shortest paths in dynamic and stochastic traffic networks. Transportation Research Part B: Methodological, 1998, 32, 499-516.	2.8	225
117	An adaptive model for real-time estimation of overflow queues on congested arterials. , 0, , .		2