

# Liping Fu

## List of Publications by Year in descending order

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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	CFHTLenS: the Canada-France-Hawaii Telescope Lensing Survey. Monthly Notices of the Royal Astronomical Society, 2012, 427, 146-166.	1.6	596
2	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
3	Expected shortest paths in dynamic and stochastic traffic networks. Transportation Research Part B: Methodological, 1998, 32, 499-516.	2.8	225
4	Real-Time Optimization Model for Dynamic Scheduling of Transit Operations. Transportation Research Record, 2003, 1857, 48-55.	1.0	153
5	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
6	Quantifying safety benefit of winter road maintenance: Accident frequency modeling. Accident Analysis and Prevention, 2010, 42, 1878-1887.	3.0	125
7	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
8	Identification of crash hotspots using kernel density estimation and kriging methods: a comparison. Journal of Modern Transportation, 2015, 23, 93-106.	2.5	106
9	Design and Implementation of Bus-Holding Control Strategies with Real-Time Information. Transportation Research Record, 2002, 1791, 6-12.	1.0	102
10	Predicting Bus Arrival Time on the Basis of Global Positioning System Data. Transportation Research Record, 2007, 2034, 62-72.	1.0	92
11	Scheduling dial-a-ride paratransit under time-varying, stochastic congestion. Transportation Research Part B: Methodological, 2002, 36, 485-506.	2.8	90
12	A hybrid Bayesian network model for predicting delays in train operations. Computers and Industrial Engineering, 2019, 127, 1214-1222.	3.4	76
13	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
14	Alternative Risk Models for Ranking Locations for Safety Improvement. Transportation Research Record, 2005, 1908, 1-8.	1.0	69
15	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
16	An automatic image recognition system for winter road surface condition classification. , 2010, , .		64
17	Bayesian multiple testing procedures for hotspot identification. Accident Analysis and Prevention, 2007, 39, 1192-1201.	3.0	56
18	Estimating countermeasure effects for reducing collisions at highway-railway grade crossings. Accident Analysis and Prevention, 2007, 39, 406-416.	3.0	55

#	ARTICLE	IF	CITATIONS
19	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
20	Delay Variability at Signalized Intersections. Transportation Research Record, 2000, 1710, 215-221.	1.0	52
21	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
22	Train Dispatching Management With Data-Driven Approaches: A Comprehensive Review and Appraisal. IEEE Access, 2019, 7, 114547-114571.	2.6	49
23	Planning and Design of Flex-Route Transit Services. Transportation Research Record, 2002, 1791, 59-66.	1.0	48
24	Risk-Based Model for Identifying Highway-Rail Grade Crossing Blackspots. Transportation Research Record, 2004, 1862, 127-135.	1.0	48
25	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
26	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
27	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
28	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
29	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
30	Optimization of headways with stop-skipping control: a case study of bus rapid transit system. Journal of Advanced Transportation, 2015, 49, 385-401.	0.9	44
31	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
32	Statistical investigation on train primary delay based on real records: evidence from Wuhan-Guangzhou HSR. International Journal of Rail Transportation, 2017, 5, 170-189.	1.8	40
33	Optimizing winter road maintenance operations under real-time information. European Journal of Operational Research, 2009, 196, 332-341.	3.5	38
34	Effect of Winter Weather and Road Surface Conditions on Macroscopic Traffic Parameters. Transportation Research Record, 2013, 2329, 54-62.	1.0	38
35	Fleet Size and Mix Optimization for Paratransit Services. Transportation Research Record, 2004, 1884, 39-46.	1.0	35
36	A hybrid model to improve the train running time prediction ability during high-speed railway disruptions. Safety Science, 2020, 122, 104510.	2.6	34

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37	Alternative Risk Models for Ranking Locations for Safety Improvement. <i>Transportation Research Record</i> , 2005, 1908, 1-8.	1.0	32
38	Multilevel Dirichlet process mixture analysis of railway grade crossing crash data. <i>Analytic Methods in Accident Research</i> , 2016, 9, 27-43.	4.7	30
39	A multi-class transit assignment model for estimating transit passenger flows—a case study of Beijing subway network. <i>Journal of Advanced Transportation</i> , 2016, 50, 50-68.	0.9	30
40	Development of a global road safety performance function using deep neural networks. <i>International Journal of Transportation Science and Technology</i> , 2017, 6, 159-173.	2.0	30
41	Forecasting primary delay recovery of high-speed railway using multiple linear regression, supporting vector machine, artificial neural network, and random forest regression. <i>Canadian Journal of Civil Engineering</i> , 2019, 46, 353-363.	0.7	29
42	A video-based approach to calibrating car-following parameters in VISSIM for urban traffic. <i>International Journal of Transportation Science and Technology</i> , 2016, 5, 1-9.	2.0	28
43	Location Optimization of Road Weather Information System (RWIS) Network Considering the Needs of Winter Road Maintenance and the Traveling Public. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 57-71.	6.3	28
44	Field Test of Organic Deicers as Prewetting and Anti-Icing Agents for Winter Road Maintenance. <i>Transportation Research Record</i> , 2012, 2272, 130-135.	1.0	26
45	Galaxy—Galaxy Weak-lensing Measurements from SDSS. II. Host Halo Properties of Galaxy Groups. <i>Astrophysical Journal</i> , 2018, 862, 4.	1.6	26
46	How to Incorporate Accident Severity and Vehicle Occupancy into the Hot Spot Identification Process?. <i>Transportation Research Record</i> , 2009, 2102, 53-60.	1.0	25
47	Modeling hazardous materials risks for different train make-up plans. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2012, 48, 907-918.	3.7	25
48	Bayesian methodology to estimate and update safety performance functions under limited data conditions: A sensitivity analysis. <i>Accident Analysis and Prevention</i> , 2014, 64, 41-51.	3.0	25
49	A proactive lane-changing risk prediction framework considering driving intention recognition and different lane-changing patterns. <i>Accident Analysis and Prevention</i> , 2022, 164, 106500.	3.0	25
50	On-Line and Off-Line Routing and Scheduling of Dial-a-Ride Paratransit Vehicles. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 1999, 14, 309-319.	6.3	24
51	Quantifying Technical Efficiency of Paratransit Systems by Data Envelopment Analysis Method. <i>Transportation Research Record</i> , 2007, 2034, 115-122.	1.0	24
52	Bayesian road safety analysis: Incorporation of past evidence and effect of hyper-prior choice. <i>Journal of Safety Research</i> , 2013, 46, 31-40.	1.7	24
53	Stochastic Model of Train Running Time and Arrival Delay: A Case Study of Wuhan—Guangzhou High-Speed Rail. <i>Transportation Research Record</i> , 2018, 2672, 215-223.	1.0	22
54	Improving Paratransit Scheduling by Accounting for Dynamic and Stochastic Variations in Travel Time. <i>Transportation Research Record</i> , 1999, 1666, 74-81.	1.0	21

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55	Analytical Model for Paratransit Capacity and Quality-of-Service Analysis. <i>Transportation Research Record</i> , 2003, 1841, 81-89.	1.0	21
56	Accident Prediction Models for Winter Road Safety. <i>Transportation Research Record</i> , 2011, 2237, 144-151.	1.0	21
57	Deicing Performance of Road Salt. <i>Transportation Research Record</i> , 2014, 2440, 76-84.	1.0	21
58	Connected Vehicle Solution for Winter Road Surface Condition Monitoring. <i>Transportation Research Record</i> , 2016, 2551, 62-72.	1.0	21
59	Modeling train timetables as images: A cost-sensitive deep learning framework for delay propagation pattern recognition. <i>Expert Systems With Applications</i> , 2021, 177, 114996.	4.4	21
60	Bayesian nonparametric modeling in transportation safety studies: Applications in univariate and multivariate settings. <i>Analytic Methods in Accident Research</i> , 2016, 12, 18-34.	4.7	20
61	Optimum winter road maintenance: effect of pavement types on snow melting performance of road salts. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 802-811.	0.7	20
62	Estimation of time-dependent, stochastic route travel times using artificial neural networks. <i>Transportation Planning and Technology</i> , 2000, 24, 25-48.	0.9	19
63	A Comparative Study of Alternative Model Structures and Criteria for Ranking Locations for Safety Improvements. <i>Networks and Spatial Economics</i> , 2006, 6, 97-110.	0.7	19
64	Evaluation of alternative criteria for determining the optimal location of RWIS stations. <i>Journal of Modern Transportation</i> , 2013, 21, 17-27.	2.5	19
65	Injury severity analysis: comparison of multilevel logistic regression models and effects of collision data aggregation. <i>Journal of Modern Transportation</i> , 2016, 24, 73-87.	2.5	18
66	Effectiveness of anti-icing operations for snow and ice control of parking lots and sidewalks. <i>Canadian Journal of Civil Engineering</i> , 2014, 41, 523-530.	0.7	15
67	Effects of winter weather on traffic operations and optimization of signalized intersections. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2019, 6, 196-208.	2.0	15
68	Impact of right-turn channelization on pedestrian safety at signalized intersections. <i>Accident Analysis and Prevention</i> , 2020, 136, 105399.	3.0	15
69	Field evaluation of the performance of alternative deicers for winter maintenance of transportation facilities. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 437-448.	0.7	14
70	Effective placement of dangerous goods cars in rail yard marshaling operation. <i>Canadian Journal of Civil Engineering</i> , 2010, 37, 753-762.	0.7	13
71	Using microscopic video data measures for driver behavior analysis during adverse winter weather: opportunities and challenges. <i>Journal of Modern Transportation</i> , 2015, 23, 81-92.	2.5	13
72	Road weather information system stations "where and how many to install: a cost benefit analysis approach. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 57-66.	0.7	13

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73	Evaluation of Alternative Pre-trained Convolutional Neural Networks for Winter Road Surface Condition Monitoring. , 2019, , .		13
74	Performance Metrics and Data Mining for Assessing Schedule Qualities in Paratransit. Transportation Research Record, 2008, 2072, 139-147.	1.0	11
75	Credit- and permit-based travel demand management state-of-the-art methodological advances. Transportmetrica A: Transport Science, 2022, 18, 5-28.	1.3	11
76	Real-time winter road surface condition monitoring using an improved residual CNN. Canadian Journal of Civil Engineering, 2021, 48, 1215-1222.	0.7	11
77	Data-driven models for predicting delay recovery in high-speed rail. , 2017, , .		10
78	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
79	Simulation Model for Evaluating Intelligent Paratransit Systems. Transportation Research Record, 2001, 1760, 93-99.	1.0	8
80	Model-Based Versus Data-Driven Approach for Road Safety Analysis: Do More Data Help?. Transportation Research Record, 2016, 2601, 33-41.	1.0	8
81	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
82	Spatiotemporal variability of road weather conditions and optimal RWIS density " an empirical investigation. Canadian Journal of Civil Engineering, 2017, 44, 691-699.	0.7	7
83	Bio-based materials for improving winter pavement friction. Canadian Journal of Civil Engineering, 2017, 44, 99-105.	0.7	7
84	Cause-specific investigation of primary delays of Wuhan"Guangzhou HSR. Transportation Letters, 2020, 12, 451-464.	1.8	7
85	Driver Behavior Classification at Stop-Controlled Intersections Using Video-Based Trajectory Data. Sustainability, 2021, 13, 1404.	1.6	7
86	Multi-Intersection Control with Deep Reinforcement Learning and Ring-and-Barrier Controllers. Transportation Research Record, 2021, 2675, 308-319.	1.0	7
87	Prediction of Pavement Surface Temperature Using Meteorological Data for Optimal Winter Operations in Parking Lots. , 2015, , .		6
88	Winter Road Surface Condition Monitoring. Transportation Research Record, 2015, 2482, 46-56.	1.0	6
89	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
90	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

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91	Potential Effects of Automatic Vehicle Location and Computer-Aided Dispatch Technology on Paratransit Performance: A Simulation Study. <i>Transportation Research Record</i> , 2001, 1760, 107-113.	1.0	5
92	Winter Road Surface Condition Forecasting. <i>Journal of Infrastructure Systems</i> , 2015, 21, .	1.0	5
93	Identifying vehicle driver injury severity factors at highway-railway grade crossings using data mining algorithms. , 2017, , .		5
94	Data-Driven Detection and Assessment for Urban Railway Transit Driver Fatigue in Real Work Conditions. <i>Transportation Research Record</i> , 2023, 2677, 1367-1375.	1.0	5
95	A fuzzy queuing model for real-time, adaptive prediction of incident delay for ATMS/ATIS. <i>Transportation Planning and Technology</i> , 2004, 27, 1-23.	0.9	4
96	Developing Safety Performance Functions for Railway Grade Crossings: A Case Study of Canada. , 2015, , .		4
97	Is speeding more likely during weekend night hours? Evidence from sensor-collected data in Montr�al. <i>Canadian Journal of Civil Engineering</i> , 2020, 47, 1046-1049.	0.7	4
98	Winter Road Safety: Effects of Weather, Maintenance Operations, and Road Characteristics. , 2011, , .		3
99	Winter Contaminants of Parking Lots and Sidewalks: Friction Characteristics and Slipping Risks. <i>Journal of Cold Regions Engineering - ASCE</i> , 2015, 29, 04014018.	0.5	3
100	Continual retiming of traffic signals using big travel time data. , 2017, , .		3
101	A GIS approach to the development of a segment-level derailment prediction model. <i>Accident Analysis and Prevention</i> , 2021, 151, 105897.	3.0	3
102	Modeling the Snow Melting Performance of Salt: A Mechanistic-Empirical Approach. , 2015, , .		3
103	An adaptive model for real-time estimation of overflow queues on congested arterials. , 0, , .		2
104	OptimalCMS: A Decision Support System for Locating Changeable Message Signs. , 2004, , 228.		2
105	A risk-based approach to winter road surface condition classification. <i>Canadian Journal of Civil Engineering</i> , 2017, 44, 182-191.	0.7	2
106	Identifying areas of high risk for collisions: A Canada-wide study of grade crossing safety. , 2017, , .		2
107	Performance evaluation of road surface temperature forecasts. <i>Canadian Journal of Civil Engineering</i> , 2021, 48, 532-539.	0.7	2
108	Effectiveness of Alternative Chemicals for Snow Removal on Highways. <i>Transportation Research Record</i> , 2006, 1948, 125-134.	1.0	2

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109	Advances in sustainable winter road maintenance and management for future smart cities. , 2022, , 625-659.		2
110	Grade Xâ€™A Network Screening and Countermeasure Analysis Tool for Highway-Railway Grade Crossings. , 2011, , .		1
111	Development of Zonal-Specific Semivariograms for a Strategic RWIS Network Optimization: Case Study. Journal of Infrastructure Systems, 2019, 25, 05019004.	1.0	1
112	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
113	Determination of Optimum Salting Rates for Asphalt Pavements in a Canadian Climate. Journal of Cold Regions Engineering - ASCE, 2022, 36, .	0.5	1
114	Cellular Phone Based Real-Time Bus Arrival Information Systems. , 2004, , 250.		0
115	A Nonparametric Approach to Road Safety Analysis - Does It Make a Difference?. , 2013, , .		0
116	Editorial for the Journal of Accident Analysis and Prevention Special Issue of ICTIS 2013. Accident Analysis and Prevention, 2015, 81, 231.	3.0	0
117	Introduction for Canadian Journal of Civil Engineering Special Issue of ICTIS 2017. Canadian Journal of Civil Engineering, 2019, 46, v-v.	0.7	0