

# Chuan Ding

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,971  
citations

201575

27  
h-index

168321

53  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2173  
citing authors

#	ARTICLE	IF	CITATIONS
1	A spatiotemporal correlative k-nearest neighbor model for short-term traffic multistep forecasting. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 62, 21-34.	3.9	312
2	A geographically and temporally weighted regression model to explore the spatiotemporal influence of built environment on transit ridership. <i>Computers, Environment and Urban Systems</i> , 2018, 70, 113-124.	3.3	184
3	Exploring the influence of built environment on travel mode choice considering the mediating effects of car ownership and travel distance. <i>Transportation Research, Part A: Policy and Practice</i> , 2017, 100, 65-80.	2.0	169
4	Applying gradient boosting decision trees to examine non-linear effects of the built environment on driving distance in Oslo. <i>Transportation Research, Part A: Policy and Practice</i> , 2018, 110, 107-117.	2.0	164
5	Prioritizing Influential Factors for Freeway Incident Clearance Time Prediction Using the Gradient Boosting Decision Trees Method. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 2303-2310.	4.7	161
6	How does the station-area built environment influence Metrorail ridership? Using gradient boosting decision trees to identify non-linear thresholds. <i>Journal of Transport Geography</i> , 2019, 77, 70-78.	2.3	150
7	Predicting Short-Term Subway Ridership and Prioritizing Its Influential Factors Using Gradient Boosting Decision Trees. <i>Sustainability</i> , 2016, 8, 1100.	1.6	122
8	Parallel Architecture of Convolutional Bi-Directional LSTM Neural Networks for Network-Wide Metro Ridership Prediction. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 2278-2288.	4.7	117
9	Joint analysis of the spatial impacts of built environment on car ownership and travel mode choice. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 60, 28-40.	3.2	101
10	Using an ARIMA-GARCH Modeling Approach to Improve Subway Short-Term Ridership Forecasting Accounting for Dynamic Volatility. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 1054-1064.	4.7	99
11	Non-linear effects of the built environment on automobile-involved pedestrian crash frequency: A machine learning approach. <i>Accident Analysis and Prevention</i> , 2018, 112, 116-126.	3.0	97
12	Synergistic effects of the built environment and commuting programs on commute mode choice. <i>Transportation Research, Part A: Policy and Practice</i> , 2018, 118, 104-118.	2.0	94
13	Exploring the influence of built environment on tour-based commuter mode choice: A cross-classified multilevel modeling approach. <i>Transportation Research, Part D: Transport and Environment</i> , 2014, 32, 230-238.	3.2	93
14	Sustainable station-level planning: An integrated transport and land use design model for transit-oriented development. <i>Journal of Cleaner Production</i> , 2018, 170, 1052-1063.	4.6	85
15	A gradient boosting logit model to investigate driver's stop-or-run behavior at signalized intersections using high-resolution traffic data. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 72, 225-238.	3.9	77
16	How does the built environment at residential and work locations affect car ownership? An application of cross-classified multilevel model. <i>Journal of Transport Geography</i> , 2019, 75, 37-45.	2.3	65
17	Investigating the impacts of built environment on vehicle miles traveled and energy consumption: Differences between commuting and non-commuting trips. <i>Cities</i> , 2017, 68, 25-36.	2.7	61
18	Influences of built environment characteristics and individual factors on commuting distance: A multilevel mixture hazard modeling approach. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 51, 314-325.	3.2	56

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19	Exploring the influential factors in incident clearance time: Disentangling causation from self-selection bias. <i>Accident Analysis and Prevention</i> , 2015, 85, 58-65.	3.0	52
20	Non-linear relationships between built environment characteristics and electric-bike ownership in Zhongshan, China. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 75, 286-296.	3.2	45
21	Impacts of SOC on car-following behavior and travel time in the heterogeneous traffic system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 441, 221-229.	1.2	40
22	Non-linear associations between zonal built environment attributes and transit commuting mode choice accounting for spatial heterogeneity. <i>Transportation Research, Part A: Policy and Practice</i> , 2021, 148, 22-35.	2.0	40
23	Impacts of the vehicle's fuel consumption and exhaust emissions on the trip cost allowing late arrival under car-following model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 431, 52-62.	1.2	38
24	Spatial heterogeneous impact of built environment on household auto ownership levels: evidence from analysis at traffic analysis zone scales. <i>Transportation Letters</i> , 2016, 8, 26-34.	1.8	38
25	A panel analysis of the effect of the urban environment on the spatiotemporal pattern of taxi demand. <i>Travel Behaviour &amp; Society</i> , 2020, 18, 29-36.	2.4	37
26	Exploring rider satisfaction with arterial BRT: An application of impact asymmetry analysis. <i>Travel Behaviour &amp; Society</i> , 2020, 19, 82-89.	2.4	34
27	Driving as a commuting travel mode choice of car owners in urban China: Roles of the built environment. <i>Cities</i> , 2021, 112, 103114.	2.7	31
28	Cross-Nested Joint Model of Travel Mode and Departure Time Choice for Urban Commuting Trips: Case Study in Maryland's Washington, DC Region. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2015, 141, .	0.8	29
29	Understanding the Role of Built Environment in Reducing Vehicle Miles Traveled Accounting for Spatial Heterogeneity. <i>Sustainability</i> , 2014, 6, 589-601.	1.6	28
30	Collaborative control of traffic signal and variable guiding lane for isolated intersection under connected and automated vehicle environment. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 2052-2069.	6.3	28
31	A Speed Control Method at Successive Signalized Intersections Under Connected Vehicles Environment. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2019, 11, 117-128.	2.6	27
32	Influential factors of red-light running at signalized intersection and prediction using a rare events logistic regression model. <i>Accident Analysis and Prevention</i> , 2016, 95, 266-273.	3.0	26
33	Examining the spatial-temporal relationship between urban built environment and taxi ridership: Results of a semi-parametric GWPR model. <i>Journal of Transport Geography</i> , 2021, 96, 103172.	2.3	25
34	The Built Environment and the Frequency of Cycling Trips by Urban Elderly: Insights from Zhongshan, China. <i>Journal of Asian Architecture and Building Engineering</i> , 2016, 15, 511-518.	1.2	24
35	Built environment effects on fuel consumption of driving to work: Insights from on-board diagnostics data of personal vehicles. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 67, 565-575.	3.2	22
36	Exploring the Influence of Attitudes to Walking and Cycling on Commute Mode Choice Using a Hybrid Choice Model. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-8.	0.9	21

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37	Analyzing trip cost allowing late arrival under car-following model. <i>Modern Physics Letters B</i> , 2015, 29, 1550157.	1.0	18
38	Spatial Interpolation of Missing Annual Average Daily Traffic Data Using Copula-Based Model. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2019, 11, 158-170.	2.6	18
39	Short-Term Traffic States Forecasting Considering Spatial&#x2013;Temporal Impact on an Urban Expressway. <i>Transportation Research Record</i> , 2016, 2594, 61-72.	1.0	15
40	A Platoon-Based Hierarchical Merging Control for On-Ramp Vehicles Under Connected Environment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 21821-21832.	4.7	15
41	An Optimal Schedule for Urban Road Network Repair Based on the Greedy Algorithm. <i>PLoS ONE</i> , 2016, 11, e0164780.	1.1	14
42	Evacuation travel behavior in regret minimization or utility maximization rules? Evidence from emergency context. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 440-446.	0.9	12
43	A simulation-based approach to investigate the driver route choice behavior under the connected vehicle environment. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 65, 548-563.	1.8	11
44	Modeling the Joint Choice Decisions on Urban Shopping Destination and Travel-to-Shop Mode: A Comparative Study of Different Structures. <i>Discrete Dynamics in Nature and Society</i> , 2014, 2014, 1-10.	0.5	10
45	The Impact of Employer Attitude to Green Commuting Plans on Reducing Car Driving: A Mixed Method Analysis. <i>Promet - Traffic - Traffico</i> , 2014, 26, 109-119.	0.3	10
46	An Evaluation on Coordinated Relationship between Urban Rail Transit and Land-use under TOD Mode. <i>Journal of Transportation System Engineering and Information Technology</i> , 2013, 13, 9-13.	0.6	9
47	Analysis of Road Traffic Network Cascade Failures with Coupled Map Lattice Method. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-8.	0.6	7
48	The Effect of Connected Vehicle Environment on Global Travel Efficiency and Its Optimal Penetration Rate. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-10.	0.9	7
49	A time-varying parameters vector auto-regression model to disentangle the time varying effects between drivers&#x2019; responses and tolling on high occupancy toll facilities. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 88, 208-226.	3.9	7
50	Joint Analysis of the Commuting Departure Time and Travel Mode Choice: Role of the Built Environment. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-13.	0.9	7
51	Investigating the influential factors in the metro choice behavior: Evidences from Beijing, China. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 2947-2954.	0.9	5
52	A Mixed-Integer Program (MIP) for One-Way Multiple-Type Shared Electric Vehicles Allocation With Uncertain Demand. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 8972-8984.	4.7	5
53	DevNet: Deviation Aware Network for Lane Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 17584-17593.	4.7	4
54	Joint analysis of urban shopping destination and travel mode choice accounting for potential spatial correlation between alternatives. <i>Journal of Central South University</i> , 2014, 21, 3378-3385.	1.2	3

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55	Sensors in Connected Vehicle Technology: How Sensors Play a Critical Role. Journal of Sensors, 2017, 2017, 1-2.	0.6	1
56	Eco-Driving at Successive Signalized Intersections under Partially Connected Vehicles Environment. , 2018, , .		1
57	Investigation of Transient Flow and Cavitation Phenomenon in the Injector under Different Pump Speed. , 2011, , .		0
58	Interactive Relations between Urban Arterial Transit Route and Land-Use under TOD Mode. Applied Mechanics and Materials, 0, 97-98, 1201-1205.	0.2	0
59	A tour-based analysis of travel mode choice accounting for regional transit service. Journal of Central South University, 2015, 22, 402-408.	1.2	0
60	A V2I-Based Signal Optimization Method and Simulation. , 2016, , .		0
61	A Method of Real-Time Leading Vehicle Detection of Adaptive Cruise Control System on Curved Road Based on V2V. , 2018, , .		0
62	Influence of Built Environment on Simultaneous Decision-Making Behavior for School Trips. , 2018, , .		0
63	Introduction to special issue: Innovations for transport planning in China. Journal of Transport and Land Use, 2020, 13, 409-412.	0.7	0