Yao Xiao

List of Publications by Year in descending order

		1040056	996975
15 papers	**386** citations	**9** h-index	**15** g-index
21 all docs	**21** docs citations	**21** times ranked	**313** citing authors

#	Article	IF	Citations
1	Modeling the pedestrian's movement and simulating evacuation dynamics on stairs. Safety Science, 2014, 70, 189-201.	4.9	101
2	A pedestrian flow model considering the impact of local density: Voronoi diagram based heuristics approach. Transportation Research Part C: Emerging Technologies, 2016, 68, 566-580.	7.6	76
3	Modeling mechanical restriction differences between car and heavy truck in two-lane cellular automata traffic flow model. Physica A: Statistical Mechanics and Its Applications, 2016, 451, 49-62.	2.6	42
4	Modeling indoor-level non-pharmaceutical interventions during the COVID-19 pandemic: A pedestrian dynamics-based microscopic simulation approach. Transport Policy, 2021, 109, 12-23.	6.6	42
5	Modeling detour behavior of pedestrian dynamics under different conditions. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 1153-1167.	2.6	37
6	Investigation of pedestrian dynamics in circle antipode experiments: Analysis and model evaluation with macroscopic indexes. Transportation Research Part C: Emerging Technologies, 2019, 103, 174-193.	7.6	19
7	Analyzing crowd dynamic characteristics of boarding and alighting process in urban metro stations. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 121075.	2.6	19
8	Cascade Learning for Driver Facial Monitoring. IEEE Transactions on Intelligent Vehicles, 2023, 8, 404-412.	12.7	11
9	Investigation of Voronoi diagram based direction choices using uni- and bi-directional trajectory data. Physical Review E, 2018, 97, 052127.	2.1	10
10	Experimental characterization of bidirectional flow of children and a comparison with adults. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 083403.	2.3	7
11	Modeling detour decision combined the tactical and operational layer based on perceived density. Physica A: Statistical Mechanics and Its Applications, 2021, 574, 126021.	2.6	5
12	A generalized trajectories-based evaluation approach for pedestrian evacuation models. Safety Science, 2022, 147, 105574.	4.9	5
13	Forecasting the transmission trends of respiratory infectious diseases with an exposure-risk-based model at the microscopic level. Environmental Research, 2022, 212, 113428.	7.5	5
14	Exploration of pedestrian side preference behavior with circleÂantipode experiments: analysis, simulation and implication. Transportmetrica B, 2021, 9, 266-282.	2.3	3
15	Analyzing pedestrian individual and interaction collision avoidance dynamics in traditional scenarios. Transportation Research Part C: Emerging Technologies, 2021, 133, 103445.	7.6	3