

Modeling and simulating for congestion pedestrian eva

Physica A: Statistical Mechanics and Its Applications

428, 396-409

DOI: [10.1016/j.physa.2015.01.057](https://doi.org/10.1016/j.physa.2015.01.057)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Uncertainty Modeling and Assessment in Aircraft Evacuation Simulation. , 2015, , .		1
2	A Passenger Flow Risk Forecasting Algorithm for High-Speed Railway Transport Hub Based on Surveillance Sensor Networks. Journal of Sensors, 2016, 2016, 1-6.	0.6	0
3	Modeling the Separating Pedestrian Flow in T-Shaped Passage Based on Guide Sign. Discrete Dynamics in Nature and Society, 2016, 2016, 1-7.	0.5	6
4	Design of evacuation strategies with crowd density feedback. Science China Information Sciences, 2016, 59, 1-11.	2.7	12
5	Pedestrian-vehicle mixed evacuation model based on multi-particle swarm optimization. , 2016, , .		5
6	Invisible Control of Self-Organizing Agents Leaving Unknown Environments. SIAM Journal on Applied Mathematics, 2016, 76, 1683-1710.	0.8	80
7	Social dynamics in emergency evacuations: Disentangling crowdâ€™s attraction and repulsion effects. Physica A: Statistical Mechanics and Its Applications, 2017, 475, 24-34.	1.2	55
8	Stated and revealed exit choices of pedestrian crowd evacuees. Transportation Research Part B: Methodological, 2017, 95, 238-259.	2.8	118
9	Following the crowd or avoiding it? Empirical investigation of imitative behaviour in emergency escape of human crowds. Animal Behaviour, 2017, 124, 47-56.	0.8	86
10	Survey of detection techniques, mathematical models and simulation software in pedestrian dynamics. Transportation Research Procedia, 2017, 25, 551-567.	0.8	23
11	Pedestrian evacuation behavior analysis and simulation in multi-exits case. International Journal of Modern Physics C, 2017, 28, 1750128.	0.8	21
12	A Fast Genetic Algorithm-based Evacuation Plan Generator. Procedia Computer Science, 2017, 109, 994-998.	1.2	6
13	An evacuation model based on co-evolutionary multi-particle swarms optimization for pedestrianâ€™vehicle mixed traffic flow. International Journal of Modern Physics C, 2017, 28, 1750142.	0.8	4
14	Modeling Passengersâ€™ Boarding Behavior at the Platform of High Speed Railway Station. Journal of Advanced Transportation, 2017, 2017, 1-11.	0.9	18
15	Symmetry associated with symmetry break: Revisiting ants and humans escaping from multiple-exit rooms. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 941-947.	1.2	8
16	The effect of dedicated exit on the evacuation of heterogeneous pedestrians. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 305-323.	1.2	20
17	A Cellular Automaton Model for Exit Selection Behavior Simulation during Evacuation Processes. Procedia Engineering, 2018, 211, 169-175.	1.2	10
18	Crowd evacuation model based on bacterial foraging algorithm. International Journal of Modern Physics C, 2018, 29, 1850027.	0.8	3

#	ARTICLE	IF	CITATIONS
19	A social force model for the crowd evacuation in a terrorist attack. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 502, 315-330.	1.2	68
20	Evacuation During Violent Attacks: Agent-Based Modeling and Simulation. , 2018, , .		2
21	A moment-based approach to modeling collective behaviors. , 2018, , .		3
22	An Extended Model for Simulation of Mexican Wave. , 2018, , .		1
23	Optimal Control on Crowd Evacuation with Leader-Follower Model. , 2018, , .		3
24	Evacuation dynamics with smoking diffusion in three dimension based on an extended Floor-Field model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 507, 414-426.	1.2	31
25	A cellular automaton evacuation model based on random fuzzy minimum spanning tree. <i>International Journal of Modern Physics C</i> , 2018, 29, 1850072.	0.8	6
26	Emergency evacuation with incomplete information in the presence of obstacles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 533, 122068.	1.2	27
27	A Social Bonds Integration Approach for Crowd Panic Simulation. , 2019, , .		1
28	Modeling Pedestrian Choice Behavior of Vertical Walking Facilities in Rail Transit Station Considering Reminder Sign. <i>IEEE Access</i> , 2019, 7, 122006-122018.	2.6	6
29	Pedestrian choice behavior analysis and simulation of ticket gate machine in rail transit station. <i>International Journal of Modern Physics C</i> , 2019, 30, 1950027.	0.8	3
30	Designing compact training sets for data-driven molecular property prediction through optimal exploitation and exploration. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 1048-1057.	1.7	15
31	Simulation of Pedestrian Evacuation in University Canteen Based on Cellular Automata. <i>IEEE Access</i> , 2019, 7, 130120-130132.	2.6	10
32	Panic, Irrationality, and Herding: Three Ambiguous Terms in Crowd Dynamics Research. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-58.	0.9	41
33	Increasing awareness in classroom evacuation situations using agent-based modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 523, 1400-1418.	1.2	35
34	A dynamic estimation method for aircraft emergency evacuation based on cellular automata. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401982570.	0.8	3
35	Simulation of pedestrian evacuation considering emergency spread and pedestrian panic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 522, 167-181.	1.2	37
36	Analyzing Emergency Evacuation Strategies For Large Buildings Using Crowd Simulation Framework. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
37	A Data-driven Approach to Estimate the Probability of Pedestrian Flow Congestion at Transportation Bottlenecks. KSCE Journal of Civil Engineering, 2019, 23, 251-259.	0.9	5
38	Evacuation dynamics: a modeling and visualization framework. OR Spectrum, 2020, 42, 661-691.	2.1	5
39	Research Issues in Agent-Based Simulation for Pedestrians Evacuation. IEEE Access, 2020, 8, 134435-134455.	2.6	22
41	Simulation of pedestrian evacuation in stampedes based on a cellular automaton model. Simulation Modelling Practice and Theory, 2020, 104, 102147.	2.2	28
42	Improved social force model for rescue action during evacuation. Modern Physics Letters B, 2020, 34, 2050273.	1.0	7
43	Testing a real-time intelligent evacuation guiding system for complex buildings. Safety Science, 2020, 132, 104970.	2.6	16
44	Integrating Human Panic Factor in Intelligent Driver Model. , 2020, , .		3
45	Staircase evacuation for public multi-storey housing in Malaysia. International Journal of Environment and Sustainable Development, 2020, 19, 258.	0.2	1
46	Agent-based modeling and simulations of terrorist attacks combined with stampedes. Knowledge-Based Systems, 2020, 205, 106291.	4.0	23
47	Time Estimation and Hotspot Detection in the Evacuation of a Complex of Buildings: A Mesoscopic Approach and Case Study. IEEE Transactions on Engineering Management, 2020, 67, 641-658.	2.4	3
48	Optimising crowd evacuations: Mathematical, architectural and behavioural approaches. Safety Science, 2020, 128, 104745.	2.6	50
49	Investigating the Exitsâ€™ Symmetry Impact on the Evacuation Process of Classrooms and Lecture Halls: An Agent-Based Modeling Approach. Symmetry, 2020, 12, 627.	1.1	12
50	Modeling Collective Behaviors: A Moment-Based Approach. IEEE Transactions on Automatic Control, 2021, 66, 33-48.	3.6	4
51	A Guide for the Development of Game-Based Evacuation Simulators. Advances in Intelligent Systems and Computing, 2021, , 554-566.	0.5	1
52	Simulation study on pedestrian evacuation optimization in a multi-exit building. Journal of Physics: Conference Series, 2021, 1780, 012024.	0.3	1
53	Emergency Evacuation Planning via the Point of View on the Relationship Between Crowd Density and Moving Speed. Wireless Personal Communications, 2021, 119, 2577-2602.	1.8	5
54	Simulating multiâ€exit evacuation using deep reinforcement learning. Transactions in GIS, 2021, 25, 1542-1564.	1.0	11
55	The existence of cautious pedestrians might facilitate evacuation dynamics. Europhysics Letters, 2021, 134, 18003.	0.7	2

#	ARTICLE	IF	CITATIONS
56	An extended model for crowd evacuation considering pedestrian panic in artificial attack. Physica A: Statistical Mechanics and Its Applications, 2021, 571, 125833.	1.2	23
57	Emergency evacuation from multi-exits rooms in the presence of obstacles. Physica Scripta, 2021, 96, 115208.	1.2	7
58	Simulation of Exit Choice Behaviour in Evacuation Considering the Obstacles and Pedestrian Distribution. , 2021, , .		0
59	Strategy evolution of panic pedestrians in emergent evacuation with assailants based on susceptible-infected-susceptible model. Information Sciences, 2021, 570, 105-123.	4.0	9
60	Fire evacuation visualization in nursing homes based on agent and cellular automata. Journal of Safety Science and Resilience, 2021, 2, 181-198.	1.3	5
61	Cybernetics Approach Using Agent-Based Modeling in the Process of Evacuating Educational Institutions in Case of Disasters. Sustainability, 2021, 13, 10277.	1.6	13
62	The knowledge domain of crowd dynamics: Anatomy of the field, pioneering studies, temporal trends, influential entities and outside-domain impact. Physica A: Statistical Mechanics and Its Applications, 2021, 580, 126145.	1.2	29
63	Mathematical Models and Methods for Crowd Dynamics Control. Modeling and Simulation in Science, Engineering and Technology, 2020, , 159-197.	0.4	14
64	Simulation of Crowd Evacuation under Toxic Gas Incident Considering Emotion Contagion and Information Transmission. Journal of Computing in Civil Engineering, 2020, 34, 04020007.	2.5	14
65	Game theory model of exit selection in pedestrian evacuation considering visual range and choice firmness*. Chinese Physics B, 2020, 29, 084502.	0.7	13
66	Incorporating Intelligence into Exit Choice Model for Typical Evacuation. Sains Malaysiana, 2017, 46, 1997-2005.	0.3	4
67	Simulating Campus Evacuation: Case of York University. , 2016, , .		0
68	Modelaci3n y simulaci3n de comportamientos humanos en situaciones de emergencia en un call center: una revisi3n cr3tica de literatura. IngenierAs USBMed, 2018, 9, 97-111.	0.1	4
69	An Agent-Based Model of Crowd Evacuation. , 2020, , .		5
70	Pedestrian Evacuation Modelling with Dynamics Congestion Avoidance. Collective Dynamics, 0, 5, A87.	0.0	1
71	Research on the influence of building convex exit on crowd evacuation and its design optimization. Building Simulation, 2022, 15, 669-684.	3.0	8
72	Modelling the impacts of crowds on occupants in the built environmentâ€”A static, rule-based approach to human perception and movement. Advanced Engineering Informatics, 2022, 51, 101452.	4.0	3
73	Simulation of crowd dynamics in pedestrian evacuation concerning panic contagion: A cellular automaton approach. Chinese Physics B, 2022, 31, 060402.	0.7	9

#	ARTICLE	IF	CITATIONS
74	An experimental study on the movement characteristics of a social group in unidirectional flow. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	1.3	2
75	Towards a mathematical theory of behavioral human crowds. <i>Mathematical Models and Methods in Applied Sciences</i> , 2022, 32, 321-358.	1.7	40
77	An Extended Model Describing Pedestrian Evacuation Considering Pedestrian Crowding and Stampede Behavior. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
78	An Extended Model for Crowd Evacuation Considering Rescue Behavior. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
79	Microscopic Characteristics and Modelling of Pedestrian Inflow Process with Inactive Persons. <i>Collective Dynamics</i> , 0, 6, 1.	0.0	0
80	A multi-modal evacuation-based response strategy for mitigating disruption in an intercity railway system. <i>Reliability Engineering and System Safety</i> , 2022, 223, 108515.	5.1	9
81	A Model-based Analysis of Evacuation Strategies in Hospital Emergency Departments. , 2021, , .		1
82	Building Fire Evacuation: An IoT-Aided Perspective in the 5G Era. <i>Buildings</i> , 2021, 11, 643.	1.4	24
83	An Extension of the Exit Choice Model: Considering the Variance in the Perspectives of Evacuees When Interacting with the Spread of Fire. <i>Sustainability</i> , 2022, 14, 173.	1.6	1
84	Bridging strategy for the disruption of metro considering the reliability of transportation system: Metro and conventional bus network. <i>Reliability Engineering and System Safety</i> , 2022, 225, 108585.	5.1	11
85	Modeling Panic Behavior in Aircraft Evacuation Simulation. , 2022, , .		0
86	Analysis of Indoor Guided Pedestrian Evacuation Dynamics in Single- and Multiple-Exit Scenarios: Toward a Unified Scheme for Guide Assignment. <i>Transportation Research Record</i> , 2022, 2676, 632-647.	1.0	0
87	Evacuation simulation of an Ro-Ro passenger ship considering the effects of inclination and crew's guidance. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 0, , 147509022211065.	0.3	0
88	An extended model describing pedestrian evacuation considering pedestrian crowding and stampede behavior. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 604, 127907.	1.2	4
89	Modeling and simulation analysis of crowd evacuation behavior under terrorist attack. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 604, 127891.	1.2	5
90	Agent-Based Simulation of Heterogeneous Crowd Flows in Critical Infrastructures During Emergencies. <i>International Journal of Cyber Warfare and Terrorism</i> , 2022, 12, 1-18.	0.3	0
91	An experimental study on evacuation dynamics including individuals with simulated disabilities. <i>Safety Science</i> , 2022, 155, 105878.	2.6	12
93	Pedestrian evacuation planning: Unveiling evacuation routes via column generation. <i>EURO Journal on Transportation and Logistics</i> , 2022, 11, 100089.	1.3	0

#	ARTICLE	IF	CITATIONS
94	Pedestrian evacuation simulation in multi-exit case: An emotion and group dual-driven method. Chinese Physics B, 2023, 32, 048901.	0.7	1
95	Model considering panic emotion and personality traits for crowd evacuation. Chinese Physics B, 2023, 32, 050401.	0.7	1
96	Pedestrian Speed Prediction Using Feed Forward Neural Network. Studies in Computational Intelligence, 2023, , 225-241.	0.7	0
97	Progress and prospects in crowd safety evacuation research in China. , 2023, 3, 1-20.		3
98	An optimal design method of emergency evacuation space in the high-density community after earthquake based on evacuation simulation. Natural Hazards, 2023, 116, 2889-2915.	1.6	3
99	Application of the dynamic Monte Carlo method to pedestrian evacuation dynamics. Applied Mathematics and Computation, 2023, 445, 127876.	1.4	4
100	Simulation-Based Analysis of Evacuation Elevator Allocation for a Multi-Level Hospital Emergency Department. , 2022, , .		1
101	Human behavioral crowds review, critical analysis and research perspectives. Mathematical Models and Methods in Applied Sciences, 2023, 33, 1611-1659.	1.7	8
102	A Pedestrian Evacuation Model with Leaders during the Smoke Dispersion Based on a Social Force Model. Modelling and Simulation in Engineering, 2023, 2023, 1-21.	0.4	0
108	MPC-based Pedestrian Routing for Congestion Balancing. , 2023, , .		0
110	A simulation tool for crisis management and pre-disaster planning. , 2023, , .		0
114	Extended floor field model for dynamic route changes. , 2023, , .		0