

Armin Seyfried

List of Publications by Year in descending order

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100
papers

4,870
citations

172207

29
h-index

114278

63
g-index

108
all docs

108
docs citations

108
times ranked

1418
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of individual factors on fundamental diagrams of pedestrians. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 595, 127077.	1.2	9
2	An attempt to distinguish physical and socio-psychological influences on pedestrian bottleneck. <i>Royal Society Open Science</i> , 2022, 9, .	1.1	6
3	Prolonged clogs in bottleneck simulations for pedestrian dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 573, 125934.	1.2	6
4	Experimental study on age and gender differences in microscopic movement characteristics of students*. <i>Chinese Physics B</i> , 2021, 30, 098902.	0.7	9
5	Anticipation in a velocity-based model for pedestrian dynamics. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 133, 103464.	3.9	22
6	Prediction of pedestrian dynamics in complex architectures with artificial neural networks. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2020, 24, 556-568.	2.6	15
7	A map representation of the ASET-RSET concept. <i>Fire Safety Journal</i> , 2020, 115, 103154.	1.4	18
8	Analysis of Space Usage on Train Station Platforms Based on Trajectory Data. <i>Sustainability</i> , 2020, 12, 8325.	1.6	4
9	Crowds in front of bottlenecks at entrances from the perspective of physics and social psychology. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190871.	1.5	39
10	Modeling of Position Finding in Waiting Processes on Platforms. <i>Springer Proceedings in Physics</i> , 2020, , 233-240.	0.1	0
11	Influence of Corridor Width and Motivation on Pedestrians in Front of Bottlenecks. <i>Springer Proceedings in Physics</i> , 2020, , 3-9.	0.1	0
12	Modelling of Pedestrian and Evacuation Dynamics. , 2019, , 649-669.		3
13	Empirical Results of Pedestrian and Evacuation Dynamics. , 2019, , 671-699.		2
14	Influence of Gender on the Fundamental Diagram and Gait Characteristics. , 2019, , 225-234.		2
15	Prediction of Pedestrian Speed with Artificial Neural Networks. , 2019, , 327-335.		5
16	Artificial Neural Networks Predicting Pedestrian Dynamics in Complex Buildings. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019, , 363-372.	0.1	1
17	Hybrid Tracking System for Pedestrians in Dense Crowds. , 2019, , 195-203.		0
18	Linking pedestrian flow characteristics with stepping locomotion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 500, 106-120.	1.2	41

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19	A representation of partial spatial knowledge: a cognitive map approach for evacuation simulations. <i>Transportmetrica A: Transport Science</i> , 2018, 14, 433-467.	1.3	12
20	From Traffic and Pedestrian Follow-the-Leader Models with Reaction Time to First Order Convection-Diffusion Flow Models. <i>SIAM Journal on Applied Mathematics</i> , 2018, 78, 63-79.	0.8	17
21	Special Issue on Vehicular and Pedestrian Traffic Flow from Data to Models. <i>Transportmetrica A: Transport Science</i> , 2018, 14, 373-374.	1.3	1
22	Pedestrian Dynamics: From Empirical Results to Modeling. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2018, , 63-102.	0.4	23
23	Modelling of Pedestrian and Evacuation Dynamics. , 2018, , 1-22.		13
24	Empirical Results of Pedestrian and Evacuation Dynamics. , 2018, , 1-29.		12
25	Fundamental diagrams for multidirectional pedestrian flows. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 033404.	0.9	70
26	Influence of the number of predecessors in interaction within acceleration-based flow models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 345102.	0.7	3
27	Collective phenomena in crowdsâ€”Where pedestrian dynamics need social psychology. <i>PLoS ONE</i> , 2017, 12, e0177328.	1.1	93
28	Measuring the steady state of pedestrian flow in bottleneck experiments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 461, 248-261.	1.2	55
29	Assessment of models for pedestrian dynamics with functional principal component analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 451, 475-489.	1.2	9
30	Methodology for Generating Individualised Trajectories from Experiments. , 2016, , 3-10.		6
31	Detection of Steady State in Pedestrian Experiments. , 2016, , 73-79.		1
32	Congestion Dynamics in Pedestrian Single-File Motion. , 2016, , 89-96.		17
33	Collision-Free Speed Model for Pedestrian Dynamics. , 2016, , 225-232.		22
34	Wayfinding and Cognitive Maps forÂPedestrian Models. , 2016, , 249-256.		12
35	Level of Safety Concept for Major Events. , 2016, , 337-344.		1
36	Jamming transitions in force-based models for pedestrian dynamics. <i>Physical Review E</i> , 2015, 92, 042809.	0.8	26

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37	Quantitative comparison of estimations for the density within pedestrian streams. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P06030.	0.9	8
38	Disentangling the Impact of Social Groups on Response Times and Movement Dynamics in Evacuations. PLoS ONE, 2015, 10, e0121227.	1.1	79
39	Experimental studies of pedestrian flows under different boundary conditions. , 2014, , .		5
40	Quantification of Bottleneck Effects for Different Types of Facilities. Transportation Research Procedia, 2014, 2, 51-59.	0.8	35
41	Experimental Study on Pedestrian Flow through Wide Bottleneck. Transportation Research Procedia, 2014, 2, 26-33.	0.8	79
42	Collision-free nonuniform dynamics within continuous optimal velocity models. Physical Review E, 2014, 90, 042812.	0.8	25
43	Universal flow-density relation of single-file bicycle, pedestrian and car motion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3274-3277.	0.9	63
44	Comparison of intersecting pedestrian flows based on experiments. Physica A: Statistical Mechanics and Its Applications, 2014, 405, 316-325.	1.2	75
45	Field Studies on the Capacity of Escalators. Transportation Research Procedia, 2014, 2, 213-218.	0.8	8
46	Empirical Study and Modelling of Pedestrians' Route Choice in a Complex Facility. , 2014, , 251-265.		2
47	Tracking People in Crowded Scenes. , 2014, , 533-542.		2
48	Effects of Boundary Conditions on Single-File Pedestrian Flow. Lecture Notes in Computer Science, 2014, , 462-469.	1.0	5
49	Basic Driving Dynamics of Cyclists. Lecture Notes in Computer Science, 2014, , 18-32.	1.0	7
50	Quantitative Validation of the Generalized Centrifugal Force Model. , 2014, , 603-613.		0
51	Fundamental Diagram of Stairs: Critical Review and Topographical Measurements. , 2014, , 329-344.		3
52	Parallel real time computation of large scale pedestrian evacuations. Advances in Engineering Software, 2013, 60-61, 98-103.	1.8	16
53	Modelling Single File Pedestrian Motion Across Cultures. Procedia, Social and Behavioral Sciences, 2013, 104, 698-707.	0.5	30
54	Comparative Analysis of Pedestrian, Bicycle and Car Traffic Moving in Circuits. Procedia, Social and Behavioral Sciences, 2013, 104, 1130-1138.	0.5	17

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55	Conception, Development, Installation and Evaluation of a Real Time Evacuation Assistant for Complex Buildings. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 104, 728-736.	0.5	5
56	Empirical Characteristics of Different Types of Pedestrian Streams. <i>Procedia Engineering</i> , 2013, 62, 655-662.	1.2	39
57	Performance of stairs – Fundamental diagram and topographical measurements. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 37, 268-278.	3.9	84
58	Collecting pedestrian trajectories. <i>Neurocomputing</i> , 2013, 100, 127-133.	3.5	228
59	On Force-Based Modeling of Pedestrian Dynamics. <i>The Kluwer International Series in Video Computing</i> , 2013, , 23-41.	0.7	6
60	Analysis of Crowd Dynamics with Laboratory Experiments. <i>The Kluwer International Series in Video Computing</i> , 2013, , 67-97.	0.7	2
61	Modeling the Desired Direction in a Force-Based Model for Pedestrian Dynamics. , 2013, , 263-275.		13
62	HERMES: An Evacuation Assistant for Large Sports Arenas Based on Microscopic Simulations of Pedestrian Dynamics. , 2013, , 287-298.		5
63	Ordering in bidirectional pedestrian flows and its influence on the fundamental diagram. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P02002.	0.9	226
64	MODELING THE DYNAMIC ROUTE CHOICE OF PEDESTRIANS TO ASSESS THE CRITICALITY OF BUILDING EVACUATION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1250029.	0.9	58
65	Experimental study of pedestrian behaviors in a corridor based on digital image processing. <i>Fire Safety Journal</i> , 2012, 47, 8-15.	1.4	69
66	Efficient and validated simulation of crowds for an evacuation assistant. <i>Computer Animation and Virtual Worlds</i> , 2012, 23, 3-15.	0.7	23
67	T-junction: Experiments, trajectory collection, and analysis. , 2011, , .		20
68	RELIABILITY ISSUES IN THE MICROSCOPIC MODELING OF PEDESTRIAN MOVEMENT. , 2011, , .		6
69	Transitions in pedestrian fundamental diagrams of straight corridors and T-junctions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P06004.	0.9	250
70	Evacuation Dynamics: Empirical Results, Modeling and Applications. , 2011, , 517-550.		40
71	Force-based models of pedestrian dynamics. <i>Networks and Heterogeneous Media</i> , 2011, 6, 425-442.	0.5	92
72	Empirical results for pedestrian dynamics and their implications for modeling. <i>Networks and Heterogeneous Media</i> , 2011, 6, 545-560.	0.5	83

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73	Methods for measuring pedestrian density, flow, speed and direction with minimal scatter. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1902-1910.	1.2	266
74	Generalized centrifugal-force model for pedestrian dynamics. Physical Review E, 2010, 82, 046111.	0.8	276
75	Enhanced Empirical Data for the Fundamental Diagram and the Flow Through Bottlenecks. , 2010, , 145-156.		76
76	Automatic Extraction of Pedestrian Trajectories from Video Recordings. , 2010, , 43-54.		97
77	Modeling Stop-and-Go Waves in Pedestrian Dynamics. Lecture Notes in Computer Science, 2010, , 561-568.	1.0	6
78	Empirical Results for Pedestrian Dynamics at Bottlenecks. Lecture Notes in Computer Science, 2010, , 575-584.	1.0	10
79	Phase Coexistence in Congested States of Pedestrian Dynamics. Lecture Notes in Computer Science, 2010, , 496-505.	1.0	41
80	Pedestrian Dynamics with Event-Driven Simulation. , 2010, , 713-718.		5
81	Quantitative Description of Pedestrian Dynamics with a Force-Based Model. , 2009, , .		13
82	COMPARISON OF PEDESTRIAN FUNDAMENTAL DIAGRAM ACROSS CULTURES. International Journal of Modeling, Simulation, and Scientific Computing, 2009, 12, 393-405.	0.9	238
83	New Insights into Pedestrian Flow Through Bottlenecks. Transportation Science, 2009, 43, 395-406.	2.6	384
84	VALIDATION OF CA MODELS OF PEDESTRIAN DYNAMICS WITH FUNDAMENTAL DIAGRAMS. Cybernetics and Systems, 2009, 40, 367-389.	1.6	73
85	Empirical Results for Pedestrian Dynamics and their Implications for Cellular Automata Models. , 2009, , 27-43.		38
86	Evacuation Dynamics: Empirical Results, Modeling and Applications. , 2009, , 3142-3176.		241
87	Empirical Data for Pedestrian Flow Through Bottlenecks. , 2009, , 189-199.		23
88	Prediction Accuracy of Evacuation Times for High-Rise Buildings and Simple Geometries by Using Different Software-Tools. , 2009, , 395-400.		7
89	Fundamentals of Pedestrian and Evacuation Dynamics. Advances in Mechatronics and Mechanical Engineering, 2009, , 124-154.	1.0	27
90	Fundamental Diagram and Validation of Crowd Models. Lecture Notes in Computer Science, 2008, , 563-566.	1.0	7

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91	The Fundamental Diagram of Pedestrian Movement Revisited – Empirical Results and Modelling. , 2007, , 305-314.		10
92	Basics of modelling the pedestrian flow. Physica A: Statistical Mechanics and Its Applications, 2006, 368, 232-238.	1.2	206
93	The fundamental diagram of pedestrian movement revisited. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P10002-P10002.	0.9	425
94	Strong dependence of percolation thresholds on polydispersity. Europhysics Letters, 2002, 58, 28-34.	0.7	44
95	Universality of the gauge-ball spectrum of the four-dimensional pure U (1) gauge theory. Nuclear Physics B, 1999, 545, 607-619.	0.9	4
96	Scaling of gauge balls and static potential in the confinement phase of the pure U(1) lattice gauge theory. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 691-693.	0.5	5
97	Hyper-systolic parallel computing. IEEE Transactions on Parallel and Distributed Systems, 1998, 9, 97-108.	4.0	13
98	HYPER-SYSTOLIC PROCESSING ON APE100/QUADRICS: n2-LOOP COMPUTATIONS. International Journal of Modern Physics C, 1996, 07, 485-501.	0.8	18
99	A Glossary for Research on Human Crowd Dynamics. Collective Dynamics, 0, 4, .	0.0	19
100	Network Simulation for Pedestrian Flows with HyDEFS. Collective Dynamics, 0, 5, .	0.0	1