

Nirajan Shiwakoti

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,429
citations

201575

27
h-index

243529

44
g-index

91
all docs

91
docs citations

91
times ranked

1232
citing authors

#	ARTICLE	IF	CITATIONS
1	Animal dynamics based approach for modeling pedestrian crowd egress under panic conditions. Transportation Research Part B: Methodological, 2011, 45, 1433-1449.	2.8	103
2	A review on the performance of an obstacle near an exit on pedestrian crowd evacuation. Safety Science, 2019, 113, 54-67.	2.6	98
3	Examining effect of architectural adjustment on pedestrian crowd flow at bottleneck. Physica A: Statistical Mechanics and Its Applications, 2019, 522, 350-364.	1.2	93
4	Enhancing the panic escape of crowd through architectural design. Transportation Research Part C: Emerging Technologies, 2013, 37, 260-267.	3.9	92
5	Examining influence of merging architectural features on pedestrian crowd movement. Safety Science, 2015, 75, 15-22.	2.6	85
6	A multinomial logit model of motorcycle crash severity at Australian intersections. Journal of Safety Research, 2020, 73, 17-24.	1.7	85
7	Likely behaviours of passengers under emergency evacuation in train station. Safety Science, 2017, 91, 40-48.	2.6	84
8	Biomass supply chain environmental and socio-economic analysis: 40-Years comprehensive review of methods, decision issues, sustainability challenges, and the way forward. Biomass and Bioenergy, 2020, 142, 105777.	2.9	79
9	Investigating collective escape behaviours in complex situations. Safety Science, 2013, 60, 87-94.	2.6	68
10	Cyber-attacks in the next-generation cars, mitigation techniques, anticipated readiness and future directions. Accident Analysis and Prevention, 2020, 148, 105837.	3.0	68
11	Empirical investigation on safety constraints of merging pedestrian crowd through macroscopic and microscopic analysis. Accident Analysis and Prevention, 2016, 95, 405-416.	3.0	64
12	Social Media Use during Unplanned Transit Network Disruptions: A Review of Literature. Transport Reviews, 2014, 34, 501-521.	4.7	63
13	Disruption Recovery in Passenger Railways. Transportation Research Record, 2013, 2353, 22-32.	1.0	57
14	Video-based analysis of school students' emergency evacuation behavior in earthquakes. International Journal of Disaster Risk Reduction, 2016, 18, 1-11.	1.8	56
15	Enhancing the Safety of Pedestrians during Emergency Egress. Transportation Research Record, 2009, 2137, 31-37.	1.0	54
16	Understanding pedestrian crowd panic: a review on model organisms approach. Journal of Transport Geography, 2013, 26, 12-17.	2.3	52
17	Observational-based study to explore pedestrian crossing behaviors at signalized and unsignalized crosswalks. Accident Analysis and Prevention, 2021, 151, 105990.	3.0	50
18	Using non-human biological entities to understand pedestrian crowd behaviour under emergency conditions. Safety Science, 2014, 66, 1-8.	2.6	48

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19	An investigation of the environmental sustainability of palm biomass supply chains via dynamic simulation modeling: A case of Malaysia. <i>Journal of Cleaner Production</i> , 2019, 237, 117740.	4.6	43
20	Data mining approach to model bus crash severity in Australia. <i>Journal of Safety Research</i> , 2021, 76, 73-82.	1.7	41
21	Pedestrian Walking Characteristics through Angled Corridors. <i>Transportation Research Record</i> , 2014, 2421, 41-50.	1.0	38
22	Understanding public response to a congestion charge: A random-effects ordered logit approach. <i>Transportation Research, Part A: Policy and Practice</i> , 2014, 70, 117-134.	2.0	35
23	Projection of Greenhouse Gas Emissions for the Road Transport Sector Based on Multivariate Regression and the Double Exponential Smoothing Model. <i>Sustainability</i> , 2020, 12, 9152.	1.6	35
24	Passengersâ€™ awareness and perceptions of way finding tools in a train station. <i>Safety Science</i> , 2016, 87, 179-185.	2.6	33
25	A State-of-the-Art Review on Empirical Data Collection for External Governed Pedestrians Complex Movement. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-42.	0.9	32
26	Biologically Inspired Modeling Approach for Collective Pedestrian Dynamics under Emergency Conditions. <i>Transportation Research Record</i> , 2010, 2196, 176-184.	1.0	31
27	A Literature Review of Supply Chain Collaboration Mechanisms and Their Impact on Performance. <i>EMJ - Engineering Management Journal</i> , 2019, 31, 47-68.	1.4	31
28	Using ordered and unordered logistic regressions to investigate risk factors associated with pedestrian crash injury severity in Victoria, Australia. <i>Journal of Safety Research</i> , 2022, 81, 78-90.	1.7	30
29	Consequence of Turning Movements in Pedestrian Crowds during Emergency Egress. <i>Transportation Research Record</i> , 2011, 2234, 97-104.	1.0	28
30	Animal dynamics based approach for modeling pedestrian crowd egress under panic conditions. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 17, 438-461.	0.5	28
31	Understanding differences in emergency escape and experimental pedestrian crowd egress through quantitative comparison. <i>International Journal of Disaster Risk Reduction</i> , 2016, 20, 129-137.	1.8	28
32	Effects of COVID-19 on rail passengersâ€™ crowding perceptions. <i>Transportation Research, Part A: Policy and Practice</i> , 2021, 154, 186-202.	2.0	27
33	Turning Angle Effect on Emergency Egress: Experimental Evidence and Pedestrian Crowd Simulation. <i>Transportation Research Record</i> , 2012, 2312, 120-127.	1.0	26
34	Investigation on the impact of walkways slope and pedestrians physical characteristics on pedestrians normal walking and jogging speeds. <i>Safety Science</i> , 2021, 133, 105012.	2.6	26
35	Using latent class clustering and binary logistic regression to model Australian cyclist injury severity in motor vehicleâ€™bicycle crashes. <i>Journal of Safety Research</i> , 2021, 79, 246-256.	1.7	26
36	A conceptual system dynamics model for cybersecurity assessment of connected and autonomous vehicles. <i>Accident Analysis and Prevention</i> , 2022, 165, 106515.	3.0	26

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37	Water-energy nexus and greenhouse gas [€] sulfur oxides embodied emissions of biomass supply and production system: A large scale analysis using combined life cycle and dynamic simulation approach. Energy Conversion and Management, 2020, 220, 113113.	4.4	24
38	Incentive-based experiments to characterize pedestrians [€] ™ evacuation behaviors under limited visibility. Safety Science, 2021, 133, 105013.	2.6	23
39	Use-stage life cycle greenhouse gas emissions of the transition to an autonomous vehicle fleet: A System Dynamics approach. Journal of Cleaner Production, 2021, 278, 123447.	4.6	21
40	Modelling bus-pedestrian crash severity in the state of Victoria, Australia. International Journal of Injury Control and Safety Promotion, 2021, 28, 233-242.	1.0	20
41	Improving bus bridging responses via satellite bus reserve locations. Journal of Transport Geography, 2014, 34, 202-210.	2.3	19
42	Passengers [€] ™ perceived ability to get out safely from an underground train station in an emergency situation. Cognition, Technology and Work, 2018, 20, 367-375.	1.7	19
43	A Review on Water-Energy-Greenhouse Gas Nexus of the Bioenergy Supply and Production System. Current Sustainable/Renewable Energy Reports, 2020, 7, 28-39.	1.2	18
44	Assessing a priori acceptance of shared dockless e-scooters in Iran. Transportation Research, Part D: Transport and Environment, 2021, 100, 103042.	3.2	18
45	Nest architecture and traffic flow: large potential effects from small structural features. Ecological Entomology, 2010, 35, 464-468.	1.1	17
46	Investigating the state of connected and autonomous vehicles: a literature Review. Transportation Research Procedia, 2020, 48, 870-882.	0.8	17
47	Particle-Gaseous pollutant emissions and cost of global biomass supply chain via maritime transportation: Full-scale synergy model. Applied Energy, 2021, 303, 117687.	5.1	16
48	A Review of Experimental Studies on Complex Pedestrian Movement Behaviors. , 2015, , .		15
49	Examining passengers [€] ™ perceptions and awareness of emergency wayfinding and procedure in airports. Safety Science, 2019, 118, 805-813.	2.6	15
50	A [€] role-rule [€] ™ model to examine passengers [€] ™ likely behaviour and their perceived ability to evacuate safely from airport in an emergency evacuation. Safety Science, 2020, 124, 104584.	2.6	15
51	Exploring how perceptive differences impact the current public transport usage and support for future public transport extension and usage: A case study of Melbourne's tramline extension. Transport Policy, 2019, 84, 12-23.	3.4	14
52	Economic Viability of Bus Bridging Reserves for Fast Response to Unplanned Passenger Rail Disruption. Transportation Research Record, 2015, 2537, 13-22.	1.0	13
53	Verifying the applicability of a pedestrian simulation model to reproduce the effect of exit design on egress flow under normal and emergency conditions. Physica A: Statistical Mechanics and Its Applications, 2021, 562, 125347.	1.2	13
54	Review on Lane Detection and Tracking Algorithms of Advanced Driver Assistance System. Sustainability, 2021, 13, 11417.	1.6	13

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55	Application of geographical information system and agent-based modeling to estimate particle-gaseous pollutant emissions and transportation cost of woody biomass supply chain. <i>Applied Energy</i> , 2022, 309, 118482.	5.1	13
56	International Study of Current and Potential Social Media Applications in Unplanned Passenger Rail Disruptions. <i>Transportation Research Record</i> , 2014, 2419, 118-127.	1.0	12
57	Examining the Impact of Different Turning Angles on the Collective Egress of Crowds. <i>Journal of Transportation Safety and Security</i> , 2014, 6, 167-181.	1.1	12
58	An analysis of core functions offered by software packages aimed at the supply chain management software market. <i>Computers and Industrial Engineering</i> , 2019, 138, 106116.	3.4	12
59	Transportation system analysis of empty fruit bunches biomass supply chain based on delivery cost and greenhouse gas emissions. <i>Procedia Manufacturing</i> , 2020, 51, 1717-1722.	1.9	12
60	Passengersâ€™ perception of safety and its relationship with demographics, service quality, satisfaction and loyalty in airlines sector - A case study of Vietnam to Australia route. <i>Transport Policy</i> , 2022, 124, 194-202.	3.4	12
61	Economic and environmental assessment of biomass supply chain for design of transportation modes: strategic and tactical decisions point of view. <i>Procedia CIRP</i> , 2021, 100, 780-785.	1.0	12
62	Controlled Experiments to Examine Different Exit Designs on Crowd Evacuation Dynamics. , 2016, , .		11
63	Development, testing, and evaluation of road safety poster to reduce jaywalking behavior at intersections. <i>Cognition, Technology and Work</i> , 2020, 22, 389-397.	1.7	11
64	MEASURING THE PUBLIC ACCEPTANCE OF URBAN CONGESTION-PRICING: A SURVEY IN MELBOURNE (AUSTRALIA). <i>Transport</i> , 2018, 33, 902-912.	0.6	10
65	Palm oil biomass global supply chain: environmental emissions vs. technology development of maritime transportation. <i>Procedia CIRP</i> , 2022, 105, 817-822.	1.0	10
66	Agricultural biomass supply chain resilience: COVID-19 outbreak vs. sustainability compliance, technological change, uncertainties, and policies. <i>Cleaner Logistics and Supply Chain</i> , 2022, 4, 100049.	3.1	10
67	State-of-the-Art of Factors Affecting the Adoption of Automated Vehicles. <i>Sustainability</i> , 2022, 14, 6697.	1.6	10
68	Passengersâ€™ Perceptions of Security Check in Metro Stations. <i>Sustainability</i> , 2019, 11, 2930.	1.6	9
69	Lean manufacturing analysis of a Heater industry based on value stream mapping and computer simulation. <i>Procedia Manufacturing</i> , 2020, 51, 1379-1386.	1.9	9
70	Effect of Intersecting Angle on Pedestrian Crowd Flow under Normal and Evacuation Conditions. <i>Sustainability</i> , 2020, 12, 1301.	1.6	8
71	Maturity model for supply chain collaboration: CMMI approach. , 2016, , .		7
72	Supply chain collaboration and performance: an empirical study of maturity model. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	7

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73	Site characteristics associated with multi-modal trip generation rates at residential developments. Transport Policy, 2021, 103, 127-145.	3.4	7
74	Lean construction analysis of concrete pouring process using value stream mapping and Arena based simulation model. Materials Today: Proceedings, 2021, 42, 1279-1286.	0.9	7
75	Similar Crowd Behavior in Organisms of Vastly Different Body Size. Journal of Insect Behavior, 2014, 27, 239-250.	0.4	6
76	Application of a Adaptive Neuro-Fuzzy Technique for Projection of the Greenhouse Gas Emissions from Road Transportation. Sustainability, 2019, 11, 6346.	1.6	6
77	Security assessment in Vehicle-to-Everything communications with the integration of 5G and 6G networks. , 2021, , .		6
78	Evaluating Rainy Weather Effects on Driving Behaviour Dimensions of Driving Behaviour Questionnaire. Journal of Advanced Transportation, 2022, 2022, 1-10.	0.9	6
79	Supply chain collaboration " A case study of textile and apparel industry. , 2017, , .		5
80	Evaluating Safety Issues for Taxi Transport Management. Journal of Advanced Transportation, 2021, 2021, 1-14.	0.9	4
81	A Clustering Approach to Identify High-Risk Taxi Drivers Based on Self-Reported Driving Behavior. Journal of Advanced Transportation, 2022, 2022, 1-16.	0.9	3
82	Examining the effects of exit layout designs on children pedestrians' exit choice. Physica A: Statistical Mechanics and Its Applications, 2022, 602, 127654.	1.2	3
83	Environmental emissions and cost vs. intermodal transportation technological development trade-off for the design of woody biomass supply chain. Procedia CIRP, 2022, 109, 134-139.	1.0	3
84	Congestion Pricing with Distance Tolls: A Review and New Developments. , 2014, , .		2
85	In an emergency evacuation situation what would you do?. Transportation Research Procedia, 2020, 48, 860-869.	0.8	2
86	Sustainable and Resilient Transport Infrastructure. Journal of Advanced Transportation, 2021, 2021, 1-2.	0.9	2
87	Would walking hand-in-hand increase the traffic efficiency of children pedestrian flow?. Physica A: Statistical Mechanics and Its Applications, 2021, 583, 126332.	1.2	2
88	Estimating Pedestrian Walking Characteristics by Use of Smartphone Sensing: An Experimental Study. , 2018, , .		1
89	Simulation Scenario Analysis of Operational Day to Day Storage System of Biomass Supply Chain for a Power Plant Case Study Based on Logistic Cost and Transportation Emissions. , 2021, , .		1
90	ERP-based lean systems and their impact on performance: the system dynamics approach for a maturity model. International Journal of Industrial and Systems Engineering, 2021, 37, 334.	0.1	0