

A review of system dynamics models applied in transpo

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Evaluating emission mitigation strategies for sustainable transportation system: a system dynamics approach. <i>World Review of Intermodal Transportation Research</i> , 2014, 5, 101.	0.2	5
2	Evaluating sustainability of truck weight regulations: A system dynamics view. <i>Journal of Industrial Engineering and Management</i> , 2015, 8, .	1.0	4
3	Model for Estimation Urban Transportation Supply-Demand Ratio. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-12.	0.6	7
4	Approaches and Techniques for Modelling CO ₂ Emissions from Road Transport. <i>Transport Reviews</i> , 2015, 35, 533-553.	4.7	49
5	Long-Term Air Pollution Responses to Transportation Policies in the Tehran Metropolitan Area. <i>Archives of Civil Engineering</i> , 2016, 62, 51-72.	0.7	1
6	Integration of system dynamics approach toward deepening and broadening the life cycle sustainability assessment framework: a case for electric vehicles. <i>International Journal of Life Cycle Assessment</i> , 2016, 21, 1009-1034.	2.2	115
7	Transitions and Impacts of Passenger Car Powertrain Technologies in European Member States. <i>Transportation Research Procedia</i> , 2016, 14, 2620-2629.	0.8	9
8	Investigating carbon footprint reduction potential of public transportation in United States: A system dynamics approach. <i>Journal of Cleaner Production</i> , 2016, 133, 1260-1276.	4.6	96
9	Exploring stability and change in transport systems: combining Delphi and system dynamics approaches. <i>Transportation</i> , 2017, 44, 789-805.	2.1	16
10	Linking a transport dynamic model with an emissions model to aid air pollution evaluations of transport policies in Latin America. <i>Transportmetrica B</i> , 2017, 5, 265-280.	1.4	7
11	Assessing accessibility with local coefficients for the LUTI model MARS. <i>Computers, Environment and Urban Systems</i> , 2017, 64, 194-203.	3.3	2
12	Analyzing the diffusion of eco-friendly vans for urban freight distribution. <i>International Journal of Logistics Management</i> , 2017, 28, 1218-1242.	4.1	33
13	Electric vehicle and end-of-life vehicle estimation in Malaysia 2040. <i>Environment Systems and Decisions</i> , 2017, 37, 451.	1.9	14
14	Policy insights and modelling challenges: The case of passenger car powertrain technology transition in the European Union. <i>European Transport Research Review</i> , 2017, 9, .	2.3	8
15	An exploratory policy analysis of electric vehicle sales competition and sensitivity to infrastructure in Europe. <i>Technological Forecasting and Social Change</i> , 2017, 114, 165-178.	6.2	109
16	Assessing the Impacts of Electric Vehicles Uptake: A System Dynamics Approach. , 2017, , .		2
17	Purpose and benefits of hybrid simulation: Contributing to the convergence of its definition. , 2017, , .		33
18	Modelling Land Use and Transport Policies to Measure Their Contribution to Urban Challenges: The Case of Madrid. <i>Sustainability</i> , 2017, 9, 378.	1.6	26

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19	Eliminating Overload Trucking via a Modal Shift to Achieve Intercity Freight Sustainability: A System Dynamics Approach. Sustainability, 2017, 9, 398.	1.6	13
20	System Dynamic Model for Simulating Demand-Supply Interaction of Railway Express Freight System. Mathematical Problems in Engineering, 2017, 2017, 1-10.	0.6	5
21	System dynamics model of taxi management in metropolises: Economic and environmental implications for Beijing. Journal of Environmental Management, 2018, 213, 555-565.	3.8	19
22	Effects of traffic lights for Manhattan-like urban traffic network in intelligent transportation systems. Transportmetrica B, 2018, 6, 4-16.	1.4	6
23	A Dynamic Model of Effective Factors on Open Innovation in Manufacturing Small and Medium Sized Companies. International Journal of System Dynamics Applications, 2018, 7, 1-26.	0.3	38
24	A system dynamics approach to integrating sustainable land use with transportation system based on access management. , 2018, , .		1
25	FROM HYBRID SIMULATION TO HYBRID SYSTEMS MODELLING. , 2018, , .		34
26	A System Dynamics Model for Congestion Formation Mechanism at Intersection Group. , 2018, , .		0
27	The technology of protecting objects of transport infrastructure from dynamic impacts in the ground. Transportation Research Procedia, 2018, 36, 766-776.	0.8	5
28	Evaluating the Effect of Policies and the Development of Charging Infrastructure on Electric Vehicle Diffusion in China. Sustainability, 2018, 10, 3394.	1.6	34
29	The role of plug-in electric vehicles in reducing energy and CO2 emissions in Istanbul: A system dynamics approach. , 2018, , .		2
30	E-Waste Recycling System in Closed Loop Supply Chain. International Journal of System Dynamics Applications, 2018, 7, 55-80.	0.3	7
31	Industry strategies for the promotion of E-mobility under alternative policy and economic scenarios. European Transport Research Review, 2018, 10, .	2.3	19
32	The European Air Transport System: A Methodological Perspective on System Dynamics Modeling. Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR, 2018, , 609-615.	0.1	0
33	Sustainable Strategies for Transportation Development in Emerging Cities in China: A Simulation Approach. Sustainability, 2018, 10, 844.	1.6	35
34	Modeling airline MRO operations using a systems dynamics approach. Journal of Quality in Maintenance Engineering, 2018, 24, 280-310.	1.0	5
35	A system dynamics model for simulating urban sustainability performance: A China case study. Journal of Cleaner Production, 2018, 199, 1107-1115.	4.6	97
36	The application of system dynamics modelling to environmental health decision-making and policy - a scoping review. BMC Public Health, 2018, 18, 402.	1.2	79

#	ARTICLE	IF	CITATIONS
37	Analysis on the market evolution of new energy vehicle based on population competition model. Transportation Research, Part D: Transport and Environment, 2018, 65, 36-50.	3.2	50
38	A strategic and dynamic land-use transport interaction model for Bogotá and its region. Transportmetrica B, 2019, 7, 707-725.	1.4	8
39	System Dynamics Modeling of Indonesia Road Transportation Energy Demand and Scenario Analysis to achieve National Energy Policy Target. IOP Conference Series: Materials Science and Engineering, 2019, 546, 052070.	0.3	3
40	Addressing the Sustainability Issue in Smart Cities: A Comprehensive Model for Evaluating the Impacts of Electric Vehicle Diffusion. Systems, 2019, 7, 29.	1.2	9
41	How Urban Resilience Can Change Cities: A System Dynamics Model Approach. Lecture Notes in Computer Science, 2019, , 108-122.	1.0	10
42	Analysis of Urban Service Reliability and Its Effect on Traffic Congestion. , 2019, , .		1
43	A system dynamics model for regulatory impact assessment in transport of dangerous goods. Journal of Simulation, 2019, , 1-11.	1.0	2
44	Soft-linking of a behavioral model for transport with energy system cost optimization applied to hydrogen in EU. Renewable and Sustainable Energy Reviews, 2019, 115, 109349.	8.2	26
45	A System Dynamics Model for CO2 Mitigation Strategies at a Container Seaport. Sustainability, 2019, 11, 2806.	1.6	9
46	Societal implications of sustainable energy action plans: from energy modelling to stakeholder learning. Journal of Environmental Planning and Management, 2019, 62, 399-423.	2.4	13
47	Systematic Review of Integrated Sustainable Transportation Models for Electric Passenger Vehicle Diffusion. Sustainability, 2019, 11, 2513.	1.6	27
48	Measuring effectiveness of carbon tax on Indian road passenger transport: A system dynamics approach. Energy Economics, 2019, 81, 341-354.	5.6	37
49	Is the decline of active travel to school unavoidable by-products of economic growth and urbanization in developing countries?. Sustainable Cities and Society, 2019, 47, 101446.	5.1	13
50	Modelo para análise ex ante de políticas de logística urbana baseadas em centros de distribuição urbanos: uma abordagem utilizando dinâmica de sistemas. Urbe, 2019, 11, .	0.3	1
51	Mathematical modelling for health systems research: a systematic review of system dynamics and agent-based models. BMC Health Services Research, 2019, 19, 845.	0.9	57
52	The Brazilian urban mobility policy: The impact in São Paulo transport system using system dynamics. Transport Policy, 2019, 73, 51-61.	3.4	56
53	A Generic Simulation Model of the Relative Cost-Effectiveness of ICU Versus Step-Down (IMCU) Expansion. Journal of Intensive Care Medicine, 2020, 35, 191-202.	1.3	3
54	Modeling dynamic behavior of navigable inland waterways. Maritime Economics and Logistics, 2020, 22, 173-195.	2.0	16

#	ARTICLE	IF	CITATIONS
55	Measuring and enhancing the transferability of hidden Markov models for dynamic travel behavioral analysis. <i>Transportation</i> , 2020, 47, 585-605.	2.1	1
56	Analysing the impact of value added services at intermodal inland terminals. <i>International Journal of Logistics Research and Applications</i> , 2020, 23, 159-177.	5.6	6
57	Bottom-up modeling approach and mesoscopic simulations in traffic system dynamics models. <i>Simulation</i> , 2020, 96, 313-324.	1.1	0
58	System dynamics approaches to public-private partnerships: A literature review. <i>Systems Research and Behavioral Science</i> , 2020, 37, 277-291.	0.9	7
59	Modelling cyclic container freight index using system dynamics. <i>Maritime Policy and Management</i> , 2020, 47, 287-303.	1.9	15
60	Simulating the battery price and the car-mix in key electro-mobility markets via model coupling. <i>Journal of Simulation</i> , 2020, 14, 242-259.	1.0	2
61	CO2 emissions from urban buildings at the city scale: System dynamic projections and potential mitigation policies. <i>Applied Energy</i> , 2020, 277, 115546.	5.1	28
62	A System Dynamics Model and Analytic Network Process: An Integrated Approach to Investigate Urban Resilience. <i>Land</i> , 2020, 9, 242.	1.2	30
63	Modelling and simulation of transportation system effectiveness to reduce traffic congestion: a system dynamics framework. <i>Transportation Planning and Technology</i> , 2020, 43, 670-697.	0.9	7
64	The Markets of Green Cars of Three Countries: Analysis Using Lotka-Volterra and Bertalanffy-Pütter Models. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2020, 6, 67.	2.6	8
65	Tourism, transport, and land use: a dynamic impact assessment for Kaohsiung's Asia New Bay Area. <i>Journal of Simulation</i> , 2020, 14, 304-315.	1.0	4
66	Editorial: Special issue on Simulation in Transportation. <i>Journal of Simulation</i> , 2020, 14, 239-241.	1.0	3
67	Avaliação do consumo energético e emissões de dióxido de carbono do transporte rodoviário do Brasil (2016-2026). <i>Desenvolvimento E Meio Ambiente</i> , 0, 54, .	0.0	0
68	Conceptualising Design Fixation and Design Limitation and Quantifying Their Impacts on Resource Use and Carbon Emissions. <i>Sustainability</i> , 2020, 12, 8104.	1.6	3
69	An integrated approach to system dynamics and data envelopment analysis for determining efficient policies and forecasting travel demand in an urban transport system. <i>Transportation Letters</i> , 2020, , 1-17.	1.8	12
70	Scenario analysis on subsidy policies for the uptake of electric vehicles industry in China. <i>Resources, Conservation and Recycling</i> , 2020, 161, 104927.	5.3	37
71	The Business Case for a Journey Planning and Ticketing App: Comparison between a Simulation Analysis and Real-World Data. <i>Sustainability</i> , 2020, 12, 4005.	1.6	6
72	Computational modelling and systems ergonomics: a system dynamics model of drink driving-related trauma prevention. <i>Ergonomics</i> , 2020, 63, 965-980.	1.1	16

#	ARTICLE	IF	CITATIONS
73	A framework for evaluating the dynamic impacts of the Brazilian Urban Mobility Policy for transportation socioeconomic systems: A case study in Rio de Janeiro. <i>Journal of Simulation</i> , 2020, 14, 316-331.	1.0	6
74	Dynamic Models for Exploring the Resilience in Territorial Scenarios. <i>Sustainability</i> , 2020, 12, 3.	1.6	31
75	Modeling and understanding the impacts of efficiency measures on fleet fuel consumption in vehicle importing countries: A case study of Qatar. <i>Journal of Cleaner Production</i> , 2020, 259, 120619.	4.6	10
76	Development of Pavement Deterioration Prediction Models for Low Volume Roads Using System Dynamics. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020, 146, 05020001.	0.8	3
77	Strategic Planning for Urban Transportation. <i>System Dynamics for Performance Management</i> , 2020, , .	0.2	3
78	Systemic approach for integration of sustainability in evaluation of public policies for adoption of electric vehicles. <i>Systemic Practice and Action Research</i> , 2021, 34, 399-417.	1.0	7
79	Resilience of Urban Mobility Systems: Combining Urban Subsystems and Threats with a System Dynamics Approach. <i>Lecture Notes in Computer Science</i> , 2021, , 93-108.	1.0	0
80	Sustainable urban mobility analysis for elderly and disabled people in São Paulo. <i>Scientific Reports</i> , 2021, 11, 791.	1.6	12
81	Decision-making instruments for container seaport sustainable development: management platform and system dynamics model. <i>Environment Systems and Decisions</i> , 2021, 41, 212.	1.9	5
82	Modelling Uptake Sensitivities of Connected and Automated Vehicle Technologies. <i>International Journal of System Dynamics Applications</i> , 2021, 10, 88-106.	0.3	0
83	Impacts of Autonomous Vehicles on Greenhouse Gas Emissions—Positive or Negative?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5567.	1.2	52
84	Application of system dynamics model for municipal solid waste management in Khulna city of Bangladesh. <i>Waste Management</i> , 2021, 129, 1-19.	3.7	35
85	Appraising the impact of air transport on the environment: Lessons from the COVID-19 pandemic. <i>Transportation Research Interdisciplinary Perspectives</i> , 2021, 10, 100351.	1.6	14
86	Individual Adoption of ERP System in Intelligent Manufacturing Supply Chain Based on System Dynamics. , 2021, , .		1
87	Tire pressure remote monitoring system reducing the rubber waste. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 98, 102987.	3.2	8
88	The dynamics of individual behaviour of mode choice: The impacts of selected Brazilian urban mobility Policy™ instruments. <i>Case Studies on Transport Policy</i> , 2021, 9, 1324-1335.	1.1	5
89	A review of transport-health system dynamics models. <i>Journal of Transport and Health</i> , 2021, 22, 101138.	1.1	5
90	A Systems Analysis Critique of Sport-Science Research. <i>International Journal of Sports Physiology and Performance</i> , 2021, 16, 1385-1392.	1.1	4

#	ARTICLE	IF	CITATIONS
91	System Effects of Widespread Use of Fully Automated Vehicles—Three Scenarios. Lecture Notes in Mobility, 2017, , 135-148.	0.2	2
92	Investigation of Road Transport Enterprise Functioning on the Basis of System Dynamics. Transport and Telecommunication, 2018, 19, 1-9.	0.7	5
93	Integrating Inventory and Transport Capacity Planning in a Food Supply Chain. International Journal of Simulation Modelling, 2020, 19, 434-445.	0.6	9
94	Toward the Dynamic Modeling of Transition Problems: The Case of Electric Mobility. Sustainability, 2021, 13, 38.	1.6	5
95	FACTORS INFLUENCING URBAN INVESTMENT ATTRACTIVENESS: AN FCM-SD APPROACH. International Journal of Strategic Property Management, 2020, 24, 237-250.	0.8	20
96	SYSTEM DYNAMICS MODELING FOR CONSTRUCTION MANAGEMENT RESEARCH: CRITICAL REVIEW AND FUTURE TRENDS. Journal of Civil Engineering and Management, 2019, 25, 730-741.	1.9	14
98	Barriers to Transnational Passenger Rail Services in Croatia and Bosnia and Herzegovina – A Qualitative Perspective. Promet - Traffic - Traffico, 2021, 33, 689-703.	0.3	3
99	A review of systems modelling for local sustainability. Environmental Research Letters, 2021, 16, 113004.	2.2	21
100	Modeling Influencing Factors for Passenger Flow Growth of Modern Trams Using System Dynamics Method. Journal of Advanced Transportation, 2019, 2019, 1-14.	0.9	1
101	Development of electric road transport: simulation modelling. Baltic Region, 2020, , 118-139.	0.2	4
102	Modelling of Innovation Process on Urban Public Transport by System Dynamics. Izvestiya of Saratov University New Series Series Economics Management Law, 2020, 20, 29-37.	0.0	1
103	Urban Mobility Transition to Sustainability: A System Dynamics Approach. Advances in Intelligent Systems and Computing, 2021, , 525-538.	0.5	1
104	A Priority in Land Supply for Sustainable Transportation of Chinese Cities: An Empirical Study from Perception, Discrimination, Linkage to Decision. Land, 2022, 11, 78.	1.2	3
105	A system dynamics approach to analysis for the metro passenger flow: A case study of Hangzhou. , 2021, , .		0
106	Freight Transport Decarbonization: A Systematic Literature Review of System Dynamics Models. Sustainability, 2022, 14, 3625.	1.6	14
107	Analysis of Taxi Travels during an Epidemic Period Using System Dynamics Method. Sustainability, 2022, 14, 3457.	1.6	0
108	A bibliometric visual analysis of the system dynamics approach for construction and demolition waste management. , 2022, 1, 100004.		14
109	Dynamic Model for Evaluating Information Systems Security by System Dynamics Modeling. , 2020, 16, 52-61.		0

#	ARTICLE	IF	CITATIONS
110	Brazilian Megacities: A simulation to quantify the impacts of the Brazilian Urban Mobility Policy. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 0, , 1-30.	0.4	1
111	Emerging trends and influential outsiders of transportation science. Transportation Letters, 2023, 15, 386-422.	1.8	8
112	Knowledge Management as a Domain, System Dynamics as a Methodology. Systems, 2022, 10, 82.	1.2	5
113	System Dynamic Model for Sustainable Road Rehabilitation Integrating Technical, Economic, and Environmental Considerations. Journal of Management in Engineering - ASCE, 2022, 38, .	2.6	3
114	Economic Impact of Investment Scenarios in the McClellan-Kerr Arkansas River Navigation System. Journal of Marine Science and Engineering, 2022, 10, 923.	1.2	2
115	A Typology for Characterizing Human Action in MultiSector Dynamics Models. Earth's Future, 2022, 10, .	2.4	9
116	Simulation of Sustainable Manufacturing Solutions: Tools for Enabling Circular Economy. Sustainability, 2022, 14, 9796.	1.6	4
117	A System Dynamics Model of Multi-Airport Logistics System under the Impact of COVID-19: A Case of Jing-Jin-Ji Multi-Airport System in China. Sustainability, 2022, 14, 12823.	1.6	2
118	Dynamics of freight transport decarbonisation: a conceptual model. Journal of Simulation, 0, , 1-19.	1.0	3
119	Evaluating Biofuel Energy Policies for Sustainable Transportation Sector: A System Dynamics Approach. International Journal of Mathematical, Engineering and Management Sciences, 2023, 8, 120-141.	0.4	0
120	Modelling a tradable transport permit scheme using system dynamics. Frontiers in Future Transportation, 0, 4, .	1.3	0
121	Towards low-carbon transition: Coordinating development and decarbonisation in rural logistics. Systems Research and Behavioral Science, 2024, 41, 173-206.	0.9	0