

Using neural networks and cellular automata for model

International Journal of Geographical Information Science
22, 943-963

DOI: 10.1080/13658810701731168

Citation Report

#	ARTICLE	IF	CITATIONS
1	Modelling intra-urban dynamics in the Savassi neighbourhood, Belo Horizonte city, Brazil. Environmental Science and Engineering, 2008, , 319-338.	0.1	5
2	Recent Trends in IJGISc. International Journal of Geographical Information Science, 2009, 23, 1-6.	2.2	8
3	Modelling Land Use Changes of Suburban Area with Geographic Cellular Model and GIS: A Case Study in Minhang District of Shanghai, China. , 2009, , .		0
4	Towards a comprehensive framework for modeling urban spatial dynamics. Landscape Ecology, 2009, 24, 1223-1236.	1.9	56
5	Cropland change in southern Romania: a comparison of logistic regressions and artificial neural networks. Landscape Ecology, 2009, 24, 1195-1206.	1.9	60
6	Implementation of a dynamic neighborhood in a land-use vector-based cellular automata model. Computers, Environment and Urban Systems, 2009, 33, 44-54.	3.3	96
7	Review of the research on spatial dynamics. , 2009, , .		0
8	A Geographic Object-based Approach in Cellular Automata Modeling. Photogrammetric Engineering and Remote Sensing, 2010, 76, 183-191.	0.3	11
9	Enhancing generic ecological model for short-term prediction of Southern North Sea algal dynamics with remote sensing images. Ecological Modelling, 2010, 221, 2435-2446.	1.2	15
10	An integrated approach to evaluate potential impact of precipitation and land-use change on streamflow in Srepok River Basin. Theory and Applications of GIS, 2010, 18, 117-128.	0.3	9
11	A cellular automata model based on irregular cells: application to small urban areas. Environment and Planning B: Planning and Design, 2010, 37, 1095-1114.	1.7	39
12	Large-Area Classification and Mapping of Forest and Land Cover in the Brazilian Amazon: A Comparative Analysis of ALOS/PALSAR and Landsat Data Sources. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 594-604.	2.3	106
13	Sample surveying to estimate the mean of a heterogeneous surface: reducing the error variance through zoning. International Journal of Geographical Information Science, 2010, 24, 523-543.	2.2	120
14	Cellular automata models for the simulation of real-world urban processes: A review and analysis. Landscape and Urban Planning, 2010, 96, 108-122.	3.4	544
15	Wetlands shrink simulation using Cellular Automata: a case study in Sanjiang Plain, China. Procedia Environmental Sciences, 2010, 2, 225-233.	1.3	11
16	Modelling agricultural expansion in Kenya's Eastern Arc Mountains biodiversity hotspot. Agricultural Systems, 2010, 103, 609-620.	3.2	51
17	Simulation of Land Use Change Using Genetic Algorithms Neurology Network Based Cellular Automata. , 2010, , .		1
18	Role of Brazilian Amazon protected areas in climate change mitigation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10821-10826.	3.3	534

#	ARTICLE	IF	CITATIONS
19	Predictive ability of logistic regression, auto-logistic regression and neural network models in empirical land-use change modeling – a case study. <i>International Journal of Geographical Information Science</i> , 2011, 25, 65-87.	2.2	151
20	Simulating fire regimes in the Amazon in response to climate change and deforestation. , 2011, 21, 1573-1590.		114
21	Modelización de escenarios de cambio potencial en la vegetación y el uso de suelo en la Sierra Madre Oriental de San Luis Potosí; México. <i>Journal of Latin American Geography</i> , 2011, 10, 65-86.	0.0	11
22	Dynamic modeling of forest conversion: Simulation of past and future scenarios of rural activities expansion in the fringes of the Xingu National Park, Brazilian Amazon. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011, 13, 435-446.	1.4	60
23	Modeling dynamic urban growth using cellular automata and particle swarm optimization rules. <i>Landscape and Urban Planning</i> , 2011, 102, 188-196.	3.4	178
24	Simulating Urban Growth Scenarios Using GIS and Multicriteria Analysis Techniques: A Case Study of the Madrid Region, Spain. <i>Environment and Planning B: Planning and Design</i> , 2011, 38, 1012-1031.	1.7	35
25	Governance, Scale and the Environment: The Importance of Recognizing Knowledge Claims in Transdisciplinary Arenas. <i>Ecology and Society</i> , 2011, 16, .	1.0	76
26	An Interactive Method to Dynamically Create Transition Rules in a Land-use Cellular Automata Model. , 0, , .		7
27	Spatial Dynamic Modelling of Deforestation in the Amazon. , 0, , .		1
28	Hydrological Response to Predicted Land Cover Change in the Upper Shire River Catchment, Malawi. <i>Journal of Human Ecology: International, Interdisciplinary Journal of Man-environment Relationship</i> , 2011, 36, 43-52.	0.1	3
29	Urban growth modeling of Kathmandu metropolitan region, Nepal. <i>Computers, Environment and Urban Systems</i> , 2011, 35, 25-34.	3.3	98
30	Prospective changes in irrigation water requirements caused by agricultural expansion and climate changes in the eastern arc mountains of Kenya. <i>Journal of Environmental Management</i> , 2011, 92, 982-993.	3.8	38
31	Implementation of a vector-based cellular automata model for simulating land-use changes. , 2011, , .		1
32	Impacts of Climate Change and the End of Deforestation on Land Use in the Brazilian Legal Amazon. <i>Earth Interactions</i> , 2011, 15, 1-29.	0.7	52
33	Planning from a Future Vision: Inverse Modeling in Spatial Planning. <i>Environment and Planning B: Planning and Design</i> , 2011, 38, 979-994.	1.7	8
34	Developing a multi-network urbanization model: A case study of urban growth in Denver, Colorado. <i>International Journal of Geographical Information Science</i> , 2011, 25, 229-253.	2.2	40
35	Comparison of thematic maps using symbolic entropy. <i>International Journal of Geographical Information Science</i> , 2012, 26, 413-439.	2.2	14
36	Modelling sustainable urban growth in a rapidly urbanising region using a fuzzy-constrained cellular automata approach. <i>International Journal of Geographical Information Science</i> , 2012, 26, 151-167.	2.2	55

#	ARTICLE	IF	CITATIONS
37	Modeling experimental cross-transiograms of neighboring landscape categories with the gamma distribution. <i>International Journal of Geographical Information Science</i> , 2012, 26, 599-620.	2.2	9
38	Land-use and land-cover sceneries in China: an application of Dinamica EGO model. , 2012, , .		3
39	A New Opportunity to Urban Evacuation Analysis: Very Large Scale Simulations of Social Agent Systems in Repast HPC. , 2012, , .		9
40	Parallelization of ensemble neural networks for spatial land-use modeling. , 2012, , .		5
41	Scenario based urban growth allocation in Kathmandu Valley, Nepal. <i>Landscape and Urban Planning</i> , 2012, 105, 140-148.	3.4	129
42	Advances in geocomputation (1996â€“2011). <i>Computers, Environment and Urban Systems</i> , 2012, 36, 481-487.	3.3	16
43	Developing spatially explicit footprints of plausible land-use scenarios in the Santa Cruz Watershed, Arizona and Sonora. <i>Landscape and Urban Planning</i> , 2012, 107, 225-235.	3.4	26
44	Urban Growth Prediction: A Review of Computational Models and Human Perceptions. <i>Journal of Geographic Information System</i> , 2012, 04, 555-587.	0.3	103
45	GIS Cellular Automata Using Artificial Neural Network for Land Use Change Simulation of Lagos, Nigeria. <i>Journal of Geography and Geology</i> , 2012, 4, .	0.4	13
46	Forest fragmentation, climate change and understory fire regimes on the Amazonian landscapes of the Xingu headwaters. <i>Landscape Ecology</i> , 2012, 27, 585-598.	1.9	58
47	Landscape-level simulation of forest insect disturbance: Coupling swarm intelligent agents with GIS-based cellular automata model. <i>Ecological Modelling</i> , 2012, 231, 53-64.	1.2	22
48	Assessing the impact of future land-use changes on hydrological processes in the Elbow River watershed in southern Alberta, Canada. <i>Journal of Hydrology</i> , 2012, 412-413, 220-232.	2.3	139
49	Planning Support Systems for Sustainable Urban Development. <i>Lecture Notes in Geoinformation and Cartography</i> , 2013, , .	0.5	38
50	A Patchâ€“based Cellular Automaton for Simulating Landâ€“use Changes at Fine Spatial Resolution. <i>Transactions in GIS</i> , 2013, 17, 828-846.	1.0	38
51	Integration of multicriteria evaluation and cellular automata methods for landslide simulation modelling. <i>Geomatics, Natural Hazards and Risk</i> , 2013, 4, 355-375.	2.0	26
52	A hybrid analytical-heuristic method for calibrating land-use change models. <i>Environmental Modelling and Software</i> , 2013, 43, 80-87.	1.9	114
53	A Cellular Automata Model Based on Nonlinear Kernel Principal Component Analysis for Urban Growth Simulation. <i>Environment and Planning B: Planning and Design</i> , 2013, 40, 117-134.	1.7	23
54	The tropical forest in south east Asia: Monitoring and scenario modeling using synthetic aperture radar data. <i>Applied Geography</i> , 2013, 41, 168-178.	1.7	29

#	ARTICLE	IF	CITATIONS
55	Simulating urban expansion using a cloud-based cellular automata model: A case study of Jiangxia, Wuhan, China. <i>Landscape and Urban Planning</i> , 2013, 110, 99-112.	3.4	69
56	Spatiotemporal scale dependency and other sensitivities in dynamic land-use change simulations. <i>International Journal of Geographical Information Science</i> , 2013, 27, 1782-1803.	2.2	21
57	Self-Learning Cellular Automata for Forecasting Precipitation from Radar Images. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 206-211.	0.8	7
58	City Scale Evacuation: A High-Performance Multi-agent Simulation Framework. <i>Understanding Complex Systems</i> , 2013, , 239-293.	0.3	2
59	An agent-based parallel geo-simulation of urban mobility during city-scale evacuation. <i>Simulation</i> , 2013, 89, 1184-1214.	1.1	20
60	A cellular automata model for simulating the evolution of positive/negative terrains in a small loess watershed. <i>International Journal of Geographical Information Science</i> , 2013, 27, 1349-1363.	2.2	22
61	Cellular automata-based spatial dynamic modeling for analyzing urban land use change. , 2013, , .		1
62	A heuristic cellular automata approach for modelling urban land-use change based on simulated annealing. <i>International Journal of Geographical Information Science</i> , 2013, 27, 449-466.	2.2	73
63	Modeling and application of digital garden city based on GIS. , 2013, , .		0
64	Assessing the Performance of Linear Feature Models. <i>Photogrammetric Engineering and Remote Sensing</i> , 2013, 79, 847-855.	0.3	0
65	Modelagem dinâmica espacial das alterações de cobertura e uso da terra relacionadas à expansão do canavieira. <i>Boletim De Ciencias Geodesicas</i> , 2013, 19, 313-337.	0.2	13
66	Impact of ubiquitous computing technologies on changing travel and land use patterns. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 2337-2346.	1.8	8
67	Excellent approach to modeling urban expansion by fuzzy cellular automata: agent base model. , 2014, , .		1
68	A Comprehensive Land-Use/Hydrological Modeling System for Scenario Simulations in the Elbow River Watershed, Alberta, Canada. <i>Environmental Management</i> , 2014, 53, 357-381.	1.2	39
69	Evaluating the Impact of Distance Measures on Deforestation Simulations in the Fluvial Landscapes of Amazonia. <i>Ambio</i> , 2014, 43, 779-790.	2.8	10
70	Logistic regression and cellular automata-based modelling of retail, commercial and residential development in the city of Ahmedabad, India. <i>Cities</i> , 2014, 39, 68-86.	2.7	87
71	Progress in the 21st century: a Roadmap for the <i>Ecological Society of Japan</i>. <i>Ecological Research</i> , 2014, 29, 357-368.	0.7	6
72	Sustainable Land-Use Planning for a Downtown Lake Area in Central China: Multiobjective Optimization Approach Aided by Urban Growth Modeling. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2014, 140, .	0.8	30

#	ARTICLE	IF	CITATIONS
73	Spatially-Explicit Simulation of Urban Growth through Self-Adaptive Genetic Algorithm and Cellular Automata Modelling. <i>Land</i> , 2014, 3, 719-738.	1.2	57
74	ART-P-MAP Neural Networks Modeling of Land-Use Change: Accounting for Spatial Heterogeneity and Uncertainty. <i>Geographical Analysis</i> , 2015, 47, 376-409.	1.9	12
75	Digital terrain model height estimation using support vector machine regression. <i>South African Journal of Science</i> , 2015, 111, 5.	0.3	8
76	Key Challenges and Potential Urban Modelling Opportunities in South Africa, with Specific Reference to the Gauteng City-Region. <i>South African Journal of Geomatics</i> , 2015, 4, 14.	0.1	14
77	Will Passive Protection Save Congo Forests?. <i>PLoS ONE</i> , 2015, 10, e0128473.	1.1	20
78	Avalia�o da din�mica espectro-temporal visando o mapeamento dos principais cultivos de ver�o no Rio Grande do Sul. <i>Bragantia</i> , 2015, 74, 331-340.	1.3	7
79	A travel time-based variable grid approach for an activity-based cellular automata model. <i>International Journal of Geographical Information Science</i> , 2015, 29, 1757-1781.	2.2	10
80	Atlantic Forest spontaneous regeneration at landscape scale. <i>Biodiversity and Conservation</i> , 2015, 24, 2255-2272.	1.2	120
81	Multiple land use change simulation with Monte Carlo approach and CA-ANN model, a case study in Shenzhen, China. <i>Environmental Systems Research</i> , 2015, 4, .	1.5	49
82	Using the SLEUTH Urban Growth Model to Simulate Future Urban Expansion of the Isfahan Metropolitan Area, Iran. <i>Journal of the Indian Society of Remote Sensing</i> , 2015, 43, 407-414.	1.2	86
83	Performance analysis of radial basis function networks and multi-layer perceptron networks in modeling urban change: a case study. <i>International Journal of Geographical Information Science</i> , 2015, 29, 606-623.	2.2	28
84	A new discovery of transition rules for cellular automata by using cuckoo search algorithm. <i>International Journal of Geographical Information Science</i> , 2015, 29, 806-824.	2.2	52
85	A Review of Methodological Integration in Land-Use Change Models. <i>International Journal of Agricultural and Environmental Information Systems</i> , 2016, 7, 1-25.	1.8	24
86	Integrating Spatial and Attribute Characteristics of Extended Voronoi Diagrams in Spatial Patterning Research: A Case Study of Wuhan City in China. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 120.	1.4	7
87	Simulation of Dynamic Urban Growth with Partial Least Squares Regression-Based Cellular Automata in a GIS Environment. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 243.	1.4	18
88	Analysis and Prediction of Land Use Changes Related to Invasive Species and Major Driving Forces in the State of Connecticut. <i>Land</i> , 2016, 5, 25.	1.2	49
89	Urban Growth Modeling Using Cellular Automata with Multi-Temporal Remote Sensing Images Calibrated by the Artificial Bee Colony Optimization Algorithm. <i>Sensors</i> , 2016, 16, 2122.	2.1	31
90	Using the land transformation model to forecast vacant land. <i>Journal of Land Use Science</i> , 2016, 11, 450-475.	1.0	30

#	ARTICLE	IF	CITATIONS
91	Cellular automata modeling approaches to forecast urban growth for adana, Turkey: A comparative approach. <i>Landscape and Urban Planning</i> , 2016, 153, 11-27.	3.4	115
92	A bat-inspired approach to define transition rules for a cellular automaton model used to simulate urban expansion. <i>International Journal of Geographical Information Science</i> , 0, , 1-19.	2.2	16
93	SimiVal, a multi-criteria map comparison tool for land-change model projections. <i>Environmental Modelling and Software</i> , 2016, 82, 229-240.	1.9	13
94	Atmospheric dispersion modeling using Artificial Neural Network based cellular automata. <i>Environmental Modelling and Software</i> , 2016, 85, 56-69.	1.9	50
95	Urban sprawl assessment and modeling using landsat images and GIS. <i>Modeling Earth Systems and Environment</i> , 2016, 2, 1.	1.9	24
96	Optimization of adaptive neuro fuzzy inference system based urban growth model. <i>City, Territory and Architecture</i> , 2016, 3, .	0.6	7
97	Integrating cellular automata, artificial neural network, and fuzzy set theory to simulate threatened orchards: application to Maragheh, Iran. <i>GIScience and Remote Sensing</i> , 2016, 53, 183-205.	2.4	59
98	Simulating urban growth processes by integrating cellular automata model and artificial optimization in Binhai New Area of Tianjin, China. <i>Geocarto International</i> , 2016, 31, 612-627.	1.7	21
99	Landscape patterns of development under two alternative scenarios: Implications for conservation. <i>Land Use Policy</i> , 2016, 54, 221-234.	2.5	15
100	A partitioned and asynchronous cellular automata model for urban growth simulation. <i>International Journal of Geographical Information Science</i> , 2016, 30, 637-659.	2.2	65
101	Integration of Markov chain analysis and similarity-weighted instance-based machine learning algorithm (SimWeight) to simulate urban expansion. <i>International Journal of Urban Sciences</i> , 2017, 21, 217-237.	1.3	21
102	Spatial Modeling and Assessment of Urban Form. , 2017, , .		11
104	Applicability and calibration of an irregular cellular automata model for land use change. <i>Computers, Environment and Urban Systems</i> , 2017, 65, 93-102.	3.3	28
105	Spatial Land Use Change Modeling Techniques. , 2017, , 171-185.		1
106	Transition index maps for urban growth simulation: application of artificial neural networks, weight of evidence and fuzzy multi-criteria evaluation. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 300.	1.3	31
107	Sensitivity analysis and accuracy assessment of the land transformation model using cellular automata. <i>GIScience and Remote Sensing</i> , 2017, 54, 639-656.	2.4	48
108	Evaluation of intensive urban land use based on an artificial neural network model: A case study of Nanjing City, China. <i>Chinese Geographical Science</i> , 2017, 27, 735-746.	1.2	18
109	Calibrating nonparametric cellular automata with a generalized additive model to simulate dynamic urban growth. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	19

#	ARTICLE	IF	CITATIONS
110	Predicting Growth of City's Built-up Land Based on Scenario Planning. <i>International Review for Spatial Planning and Sustainable Development</i> , 2017, 5, 80-92.	0.6	6
111	Machine Learning Techniques for Modelling Short Term Land-Use Change. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 387.	1.4	34
112	FOREST COVER ANALYSIS THROUGH THE WEIGHTS OF EVIDENCE METHOD IN THE CAMPANHA OCIDENTAL REGION - RS (BRAZIL). <i>Revista Arvore</i> , 2017, 41, .	0.5	1
113	Integrating Cellular Automata with the Deep Belief Network for Simulating Urban Growth. <i>Sustainability</i> , 2017, 9, 1786.	1.6	22
114	Forecasting Urban Vacancy Dynamics in a Shrinking City: A Land Transformation Model. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 124.	1.4	25
115	Multi-level Cellular Automata-based housing allocation model for small cities in developing countries: a case study of Kasba-Tadla city, in Morocco. <i>International Journal of Urban Sustainable Development</i> , 2018, 10, 186-202.	1.0	2
116	Geoinformation from the Past. , 2018, , .		4
117	Modelling coastal land use change by incorporating spatial autocorrelation into cellular automata models. <i>Geocarto International</i> , 2018, 33, 470-488.	1.7	37
118	Fuzzy Coincidence. <i>Lecture Notes in Geoinformation and Cartography</i> , 2018, , 429-431.	0.5	0
120	Land Use Change Dynamics in Southern California: Does Geographic Elasticity Matter?. <i>Journal of Planning Education and Research</i> , 2018, 38, 39-53.	1.5	4
121	A comparative approach to modelling multiple urban land use changes using tree-based methods and cellular automata: the case of Greater Tokyo Area. <i>International Journal of Geographical Information Science</i> , 2018, 32, 757-782.	2.2	24
122	Urban Growth Modeling and Future Scenario Projection Using Cellular Automata (CA) Models and the R Package Optimx. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 387.	1.4	16
123	Educational infrastructure and its impact on urban land use change in a peri-urban area: a cellular-automata based approach. <i>Land Use Policy</i> , 2018, 79, 774-788.	2.5	14
124	Smarter Shrinkage: a Neighborhood-Scaled Rightsizing Strategy Based on Land Use Dynamics. <i>Journal of Geovisualization and Spatial Analysis</i> , 2018, 2, 1.	2.1	20
125	Multiple scenario simulations of land use changes and countermeasures for collaborative development mode in Chaobai River region of Jing-Jin-Ji, China. <i>Habitat International</i> , 2018, 82, 38-47.	2.3	14
126	Land use and cover change modelling and scenarios in the Upper Uruguay Basin (Brazil). <i>Ecological Modelling</i> , 2018, 384, 128-144.	1.2	16
127	A Comparison of Vacancy Dynamics between Growing and Shrinking Cities Using the Land Transformation Model. <i>Sustainability</i> , 2018, 10, 1513.	1.6	30
128	Multiple intra-urban land use simulations and driving factors analysis: a case study in Huicheng, China. <i>GIScience and Remote Sensing</i> , 2019, 56, 282-308.	2.4	68

#	ARTICLE	IF	CITATIONS
129	Spatial Sequential Modeling and Predication of Global Land Use and Land Cover Changes by Integrating a Global Change Assessment Model and Cellular Automata. <i>Earth's Future</i> , 2019, 7, 1102-1116.	2.4	36
130	Delineation of Urban Growth Boundaries Using a Patch-Based Cellular Automata Model under Multiple Spatial and Socio-Economic Scenarios. <i>Sustainability</i> , 2019, 11, 6159.	1.6	21
131	Estimation of Single-Housing Areas Development Using Artificial Neural Network. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 102064.	0.3	0
132	Spatio-temporal simulation and prediction of land-use change using conventional and machine learning models: a review. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 205.	1.3	80
133	Geographic Cellular Automata for Realistic Urban form Simulations: How Far Should the Constraint be Contained?. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2019, , 147-162.	0.4	5
134	Simulating the urban growth of a predominantly informal Ghanaian city-region with a cellular automata model: Implications for urban planning and policy. <i>Applied Geography</i> , 2019, 105, 15-24.	1.7	25
135	Spatially explicit simulation of land use/land cover changes: Current coverage and future prospects. <i>Earth-Science Reviews</i> , 2019, 190, 398-415.	4.0	108
136	Ecological Conservationâ€œ and Economic Developmentâ€œBased Multiobjective Land-Use Optimization: Case Study of a Rapidly Developing City in Central China. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2019, 145, .	0.8	12
137	A grey wolf optimizerâ€œcellular automata integrated model for urban growth simulation and optimization. <i>Transactions in GIS</i> , 2019, 23, 672-687.	1.0	9
138	Delimiting urban growth boundaries using the CLUE-S model with village administrative boundaries. <i>Land Use Policy</i> , 2019, 82, 422-435.	2.5	108
139	Land use change simulation and analysis using a vector cellular automata (CA) model: A case study of Ipswich City, Queensland, Australia. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2020, 47, 1605-1621.	1.0	12
140	Modeling land cover change based on an artificial neural network for a semiarid river basin in northeastern Brazil. <i>Global Ecology and Conservation</i> , 2020, 21, e00811.	1.0	52
141	Examining forest cover change and deforestation drivers in Taunggyi District, Shan State, Myanmar. <i>Environment, Development and Sustainability</i> , 2020, 22, 5521-5538.	2.7	21
142	Using a maximum entropy model to optimize the stochastic component of urban cellular automata models. <i>International Journal of Geographical Information Science</i> , 2020, 34, 924-946.	2.2	23
143	A Bayesian network approach to modelling land-use decisions under environmental policy incentives in the Brazilian Amazon. <i>Journal of Land Use Science</i> , 2020, 15, 127-141.	1.0	13
144	Land use and land cover changes impacts in the harbour city of Thoothukudi. <i>International Journal of Environment and Sustainable Development</i> , 2020, 19, 123.	0.2	0
145	A novel lattice hydrodynamic model accounting for driverâ€™s memory effect and the difference of optimal velocity on curved road. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 559, 125023.	1.2	9
146	Forecasting Urban Water Demand Using Cellular Automata. <i>Water (Switzerland)</i> , 2020, 12, 2038.	1.2	5

#	ARTICLE	IF	CITATIONS
147	Urban modeling for streets using vector cellular automata: Framework and its application in Beijing. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2020, 47, 1418-1439.	1.0	2
148	Dynamic modeling to support an integrated analysis among land use change, accessibility and gentrification. <i>Land Use Policy</i> , 2020, 99, 104992.	2.5	9
149	Soil conservation efficiency assessment based on land use scenarios in the Nile River Basin. <i>Ecological Indicators</i> , 2020, 119, 106864.	2.6	25
150	A Review of Driving Factors, Scenarios, and Topics in Urban Land Change Models. <i>Land</i> , 2020, 9, 246.	1.2	38
151	Reconstructing the historical patterns of forest stand based on CA-AdaBoost-ANN model. <i>Forest Ecology and Management</i> , 2020, 478, 118518.	1.4	5
152	Landscape dynamics on insular environments of South-east mediterranean Europe. <i>Geocarto International</i> , 2020, , 1-20.	1.7	2
153	Modeling and Simulation Using Artificial Neural Network-Embedded Cellular Automata. <i>IEEE Access</i> , 2020, 8, 24056-24061.	2.6	5
154	Urban expansion and its impact on water security: The case of the Para�ba do Sul River Basin, S�o Paulo, Brazil. <i>Science of the Total Environment</i> , 2020, 720, 137509.	3.9	42
155	Ecological networks in response to climate change and the human footprint in the Yangtze River Delta urban agglomeration, China. <i>Landscape Ecology</i> , 2021, 36, 2095-2112.	1.9	32
156	A comparison of proximity and accessibility drivers in simulating dynamic urban growth. <i>Transactions in GIS</i> , 2021, 25, 923-947.	1.0	7
157	Cellular Automata Modeling for Urban and Regional Planning. <i>Urban Book Series</i> , 2021, , 865-883.	0.3	11
158	Urban growth prediction with parcel based 3D urban growth model (PURGOM). <i>MethodsX</i> , 2021, 8, 101302.	0.7	1
159	Development of an integrated peri-urban wetland degradation assessment approach for the Chatra Wetland in eastern India. <i>Scientific Reports</i> , 2021, 11, 4470.	1.6	24
160	Simulating Scenarios of Future Intra-Urban Land-Use Expansion Based on the Neural Network�Markov Model: A Case Study of Lusaka, Zambia. <i>Remote Sensing</i> , 2021, 13, 942.	1.8	9
161	Cellular automata predictive model for man-made environment growth in a Brazilian semi-arid watershed. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 323.	1.3	2
162	The effects of sample size and sample prevalence on cellular automata simulation of urban growth. <i>International Journal of Geographical Information Science</i> , 2022, 36, 158-187.	2.2	12
163	A land-use decision approach integrating thermal regulation, stormwater management, and economic benefits based on urbanization stage identification. <i>Science of the Total Environment</i> , 2021, 779, 146415.	3.9	13
164	Land space simulation of urban agglomerations from the perspective of the symbiosis of urban development and ecological protection: A case study of Changsha-Zhuzhou-Xiangtan urban agglomeration. <i>Ecological Indicators</i> , 2021, 126, 107669.	2.6	53

#	ARTICLE	IF	CITATIONS
165	ESTABLISHING A MEASUREMENT AND EVALUATION LABORATORY IN A NURSING FACULTY: A DESCRIPTIVE STUDY. İzmir Democracy University Health Sciences Journal, 0, .	0.4	0
166	Using spatial heterogeneity to strengthen the neighbourhood effects of urban growth simulation models. Journal of Spatial Science, 2023, 68, 319-337.	1.0	3
167	An adaptation of reference class forecasting for the assessment of large-scale urban planning vision, a SEM-ANN approach to the case of Hong Kong Lantau tomorrow. Land Use Policy, 2021, 109, 105701.	2.5	4
168	Improving Genetic Algorithms for Optimal Land-Use Allocation. Journal of the Urban Planning and Development Division, ASCE, 2021, 147, 04021049.	0.8	8
169	Modelagem dinâmica da expansão urbana usando autômatos celulares: o caso de Fortaleza-CE. Urbe, 0, 13, .	0.3	0
171	A Logistic Based Cellular Automata Model for Continuous Urban Growth Simulation: A Case Study of the Gold Coast City, Australia. , 2012, , 643-662.		31
172	A Spatial Probit Econometric Model of Land Change: The Case of Infrastructure Development in Western Amazonia, Peru. PLoS ONE, 2016, 11, e0152058.	1.1	15
173	Modeling Deforestation in the State of Rondônia. Floresta E Ambiente, 2019, 26, .	0.1	12
174	Cooperation of Simulation and Data Model for Performance Analysis of Complex Systems. International Journal of Simulation Modelling, 2019, 18, 608-619.	0.6	37
175	Carbon Dynamics in the Northeastern Qinghai-Tibetan Plateau from 1990 to 2030 Using Landsat Land Use/Cover Change Data. Remote Sensing, 2020, 12, 528.	1.8	44
176	The Development Simulation of Urban Green Space System Layout Based on the Land Use Scenario: A Case Study of Xuchang City, China. Sustainability, 2020, 12, 326.	1.6	13
177	Land use changes in Prague suburban area according to different prediction modelling approaches. Geografie-Sbornik CGS, 2015, 120, 422-443.	0.3	3
178	DEVELOPING AN AUTOMATED METHOD FOR THE APPLICATION OF LIDAR IN IUMAT LAND-USE MODEL: ANALYSIS OF LAND-USE CHANGES USING BUILDING-FORM PARAMETERIZATION, GIS, AND ARTIFICIAL NEURAL NETWORKS. Journal of Green Building, 2019, 14, 1-30.	0.4	7
179	Modeling Agricultural Change through Logistic Regression and Cellular Automata: A Case Study on Shifting Cultivation. Journal of Geographic Information System, 2014, 06, 220-235.	0.3	6
180	Urban Growth Modelling Using Determinism and Stochasticity in a Touristic Village in Western Greece. Open Journal of Civil Engineering, 2012, 02, 42-48.	0.2	4
181	SPATIAL DEFORESTATION MODELING USING CELLULAR AUTOMATA (CASE STUDY: CENTRAL ZAGROS) Tj ETQq1 1 0.784314 rGB /Ove Sciences - ISPRS Archives, 0, XL-1/W3, 289-293.	0.2	5
182	Urban Heat Island Growth Modeling Using Artificial Neural Networks and Support Vector Regression: A case study of Tehran, Iran. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W3, 399-403.	0.2	5
186	Urban Growth Modeling Using the Bayesian Probability Function. , 2012, , 197-214.		0

#	ARTICLE	IF	CITATIONS
187	A Web-Based Fuzzy CA Model for Urban Growth Simulation. Lecture Notes in Geoinformation and Cartography, 2013, , 363-373.	0.5	0
188	La necesidad de la validaci3n en los procesos de geosimulaci3n. Ciencias Espaciales, 2015, 8, 495-518.	0.0	0
189	Modelling Urban Growth Evolution Using SLEUTH Model: A Case Study in Wuhan City, China. Advances in Geographic Information Science, 2017, , 225-237.	0.3	0
190	Analysis of Land Use/Cover Dynamics in a Rapidly Urbanizing City: The Case of Gombe Metropolitan Area, Nigeria. Journal of Geographic Information System, 2017, 09, 637-647.	0.3	0
191	A Review of Methodological Integration in Land-Use Change Models. , 2019, , 1779-1807.		0
192	AGRICULTURAL LAND CHANGE DETECTING AND FORECASTING USING COMBINATION OF FEEDFORWARD MULTILAYER NEURAL NETWORK, CELLULAR AUTOMATA AND MARKOV CHAIN MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W18, 153-158.	0.2	0
193	Firefly algorithm-based cellular automata for reproducing urban growth and predicting future scenarios. Sustainable Cities and Society, 2022, 76, 103444.	5.1	20
194	Pattern-oriented calibration and validation of urban growth models: Case studies of Dublin, Milan and Warsaw. Land Use Policy, 2022, 112, 105831.	2.5	4
195	SEM-ANN, an adaptation of reference class forecasting for the assessment of large-scale urban planning vision. SSRN Electronic Journal, 0, , .	0.4	0
196	Modelagem din4mica e cen4rios urbanos de demanda de 4gua: simula5es em Campina Grande (PB). Engenharia Sanitaria E Ambiental, 2021, 26, 915-925.	0.1	0
197	A geographically partitioned cellular automata model for the expansion of residential areas. Transactions in GIS, 2022, 26, 1548-1571.	1.0	3
198	Urban livability index assessment based on land-use changes in an Indian medium-sized city (Raiganj). Geocarto International, 2022, 37, 8495-8519.	1.7	6
199	An ANNs-Based Method for Automated Labelling of Schematic Metro Maps. ISPRS International Journal of Geo-Information, 2022, 11, 36.	1.4	5
200	Amazon deforestation and urban expansion: Simulating future growth in the Manaus Metropolitan Region, Brazil. Journal of Environmental Management, 2022, 304, 114279.	3.8	13
201	Machine learning in modelling land-use and land cover-change (LULCC): Current status, challenges and prospects. Science of the Total Environment, 2022, 822, 153559.	3.9	85
202	Who settles where? Simulating urban growth and socioeconomic level using cellular automata and random forest regression. Environment and Planning B: Urban Analytics and City Science, 0, , 239980832110569.	1.0	0
204	Offshore Island Connection Line: A new perspective of coastal urban development boundary simulation and multi-scenario prediction. GIScience and Remote Sensing, 2022, 59, 801-821.	2.4	26
205	Land use land cover classification of remote sensing images based on the deep learning approaches: a statistical analysis and review. Arabian Journal of Geosciences, 2022, 15, .	0.6	25

#	ARTICLE	IF	CITATIONS
206	Spatial Dynamic Models for Assessing the Impact of Public Policies: The Case of Unified Educational Centers in the Periphery of São Paulo City. Land, 2022, 11, 922.	1.2	2
207	ILGAR DAÄZİ PERÄ°GLASYAL ÄZEKÄ°LLERÄ° ÄceZERÄ°NDE OLUÄZMUÄZ TOPRAKLARIN EROZYON DUYARLILIKLARININ BELÄ°RLENMESİ VE YAPAY SÄ°NÄ°R AÄZİ (YPA) Ä°LE TAHMÄ°N EDÄ°LMESÄ°. International Journal of Geography and Geography Education, 0, , .	0.1	1
208	Cellular Automata in Modeling and Predicting Urban Densification: Revisiting the Literature since 1971. Land, 2022, 11, 1113.	1.2	5
209	Digital Twin Formation Method for Distributed Generation Plants of Cyber-Physical Power Supply Systems. Mathematics, 2022, 10, 2886.	1.1	4
210	Atmospheric dispersion prediction of accidental release: A review. , 2022, 2, 1-20.		2
211	Comparative framework for spatially explicit urban growth modeling for monitoring urban land-use efficiency and sustainable urban development (SDG 11.3.1): a study on Kolkata metropolitan area, India. Geocarto International, 2024, 37, 17933-17970.	1.7	4
212	Attribution of changes in the water balance of a basin to land-use changes through combined modelling of basin hydrology and land-use dynamics. Journal of Water and Climate Change, 2022, 13, 4087-4104.	1.2	1
213	Urban Growth Modeling and Land-Use/Land-Cover Change Analysis in a Metropolitan Area (Case Study: Tj ETQq1 1,0.784314 rgBT /Ove	1.2	3
214	Analysis of land use/land cover changes and prediction of future changes with land change modeler: Case of Belek, Turkey. Environmental Monitoring and Assessment, 2023, 195, .	1.3	9
215	Modeling multi-type urban landscape dynamics along the horizontal and vertical dimensions. Landscape and Urban Planning, 2023, 233, 104683.	3.4	0
216	Simulation and Prediction of Urban Land Use Change Considering Multiple Classes and Transitions by Means of Random Change Allocation Algorithms. Remote Sensing, 2023, 15, 90.	1.8	2
217	A Systematic Review on the Application of Geospatial Technology and Artificial Intelligence in Urban Growth Modeling. , 2023, , 15-42.		0
218	The Influence of Block Morphology on Urban Thermal Environment Analysis Based on a Feed-Forward Neural Network Model. Buildings, 2023, 13, 528.	1.4	1
220	Simulating the impact of natural disasters on urban development in a sample of earthquake. Natural Hazards, 2023, 116, 3839-3855.	1.6	3
221	Current and future characteristics of land use based on intensity analysis and PLUS model : a case study of Foshan city, China. SN Applied Sciences, 2023, 5, .	1.5	1
222	U.S. Farmland under Threat of Urbanization: Future Development Scenarios to 2040. Land, 2023, 12, 574.	1.2	3
223	A Worrying Future for River Flows in the Brazilian Cerrado Provoked by Land Use and Climate Changes. Sustainability, 2023, 15, 4251.	1.6	6
224	Sustainability Consequences of Making Land Change Decisions Based on Current Climatology in the Brazilian Cerrados. Land, 2023, 12, 914.	1.2	0

#	ARTICLE	IF	CITATIONS
227	Training Topology With Graph Neural Cellular Automata. , 2023, , .		0