

# Suzana Dragicevic

## List of Publications by Year in descending order

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77  
papers

2,856  
citations

230014

27  
h-index

206121

51  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3145  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial Decision-Making for Dense Built Environments: The Logic Scoring of Preference Method for 3D Suitability Analysis. <i>Land</i> , 2022, 11, 443.	1.2	2
2	Modeling the geospatial dynamics of residential segregation in three Canadian cities: An agent-based approach. <i>Transactions in GIS</i> , 2021, 25, 948-967.	1.0	5
3	Spatial multi-criteria evaluation in 3D context: suitability analysis of urban vertical development. <i>Cartography and Geographic Information Science</i> , 2021, 48, 105-123.	1.4	5
4	Exploring the Sensitivity of Recurrent Neural Network Models for Forecasting Land Cover Change. <i>Land</i> , 2021, 10, 282.	1.2	3
5	GIS.LSP: A soft computing logic method and tool for geospatial suitability analysis. <i>Transactions in GIS</i> , 2021, 25, 1228-1248.	1.0	3
6	Suitability Analysis of Acoustic Refugia for Endangered Killer Whales ( <i>Orcinus orca</i> ) Using the GIS-based Logic Scoring of Preference Method. <i>Environmental Management</i> , 2021, 68, 262-278.	1.2	4
7	A Geographic Network Automata Approach for Modeling Dynamic Ecological Systems. <i>Geographical Analysis</i> , 2020, 52, 3-27.	1.9	8
8	Complex spatial networks: Theory and geospatial applications. <i>Geography Compass</i> , 2020, 14, e12502.	1.5	8
9	Representing Complex Evolving Spatial Networks: Geographic Network Automata. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 270.	1.4	15
10	NEAT approach for testing and validation of geospatial network agent-based model processes: case study of influenza spread. <i>International Journal of Geographical Information Science</i> , 2020, 34, 1792-1821.	2.2	7
11	A geospatial agent-based model of the spatial urban dynamics of immigrant population: A study of the island of Montreal, Canada. <i>PLoS ONE</i> , 2019, 14, e0219188.	1.1	15
12	A four-dimensional agent-based model: A case study of forest fire smoke propagation. <i>Transactions in GIS</i> , 2019, 23, 417-434.	1.0	6
13	Multidimensional Web GIS Approach for Citizen Participation on Urban Evolution. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 253.	1.4	19
14	Short-Term Forecasting of Land Use Change Using Recurrent Neural Network Models. <i>Sustainability</i> , 2019, 11, 5376.	1.6	16
15	Land-Use Change Detection with Convolutional Neural Network Methods. <i>Environments - MDPI</i> , 2019, 6, 25.	1.5	37
16	Analyzing the Effects of Temporal Resolution and Classification Confidence for Modeling Land Cover Change with Long Short-Term Memory Networks. <i>Remote Sensing</i> , 2019, 11, 2784.	1.8	13
17	A local and regional spatial index for measuring three-dimensional urban compactness growth. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2019, 46, 143-164.	1.0	16
18	Urban geosimulations with the Logic Scoring of Preference method for agent-based decision-making. <i>Habitat International</i> , 2018, 72, 3-17.	2.3	9

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19	Network-agent based model for simulating the dynamic spatial network structure of complex ecological systems. <i>Ecological Modelling</i> , 2018, 389, 19-32.	1.2	26
20	iCity 3D: A geosimulation method and tool for three-dimensional modeling of vertical urban development. <i>Landscape and Urban Planning</i> , 2017, 167, 356-367.	3.4	43
21	Machine Learning Techniques for Modelling Short Term Land-Use Change. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 387.	1.4	34
22	A Geosimulation Approach for Data Scarce Environments: Modeling Dynamics of Forest Insect Infestation across Different Landscapes. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 9.	1.4	8
23	Modeling Urban Land Use Changes Using Support Vector Machines. <i>Transactions in GIS</i> , 2016, 20, 718-734.	1.0	35
24	Towards a voxel-based geographic automata for the simulation of geospatial processes. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 117, 206-216.	4.9	18
25	A GIS-based Logic Scoring of Preference method for evaluation of land capability and suitability for agriculture. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 340-353.	3.7	75
26	Geospatial pest-parasitoid agent based model for optimizing biological control of forest insect infestation. <i>Ecological Modelling</i> , 2016, 337, 310-329.	1.2	4
27	A development of spatiotemporal queries to analyze the simulation outcomes from a voxel automata model. <i>Earth Science Informatics</i> , 2016, 9, 343-353.	1.6	2
28	Spatial indices for measuring three-dimensional patterns in a voxel-based space. <i>Journal of Geographical Systems</i> , 2016, 18, 183-204.	1.9	9
29	Comparison of GIS-Based Logic Scoring of Preference and Multicriteria Evaluation Methods: Urban Land Use Suitability. <i>Geographical Analysis</i> , 2016, 48, 427-447.	1.9	21
30	Geospatial big data handling theory and methods: A review and research challenges. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 115, 119-133.	4.9	333
31	An agent-based modeling approach to represent infestation dynamics of the emerald ash borer beetle. <i>Ecological Informatics</i> , 2015, 30, 97-109.	2.3	11
32	Integrating GIS-Based Geomorphology Theory and Voxel Automata to Simulate the Dispersal of Airborne Pollutants. <i>Transactions in GIS</i> , 2015, 19, 582-603.	1.0	11
33	GIS-based multicriteria evaluation with multiscale analysis to characterize urban landslide susceptibility in data-scarce environments. <i>Habitat International</i> , 2015, 45, 114-125.	2.3	67
34	Analytical geospatial Digital Earth. <i>International Journal of Digital Earth</i> , 2014, 7, 253-255.	1.6	4
35	Increased sediment loads over coral reefs in Saint Lucia in relation to land use change in contributing watersheds. <i>Ocean and Coastal Management</i> , 2014, 95, 35-45.	2.0	25
36	A spatially explicit network science model for emergency evacuations in an urban context. <i>Computers, Environment and Urban Systems</i> , 2014, 44, 15-26.	3.3	18

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37	Bayesian networks and agent-based modeling approach for urban land-use and population density change: a BNAS model. <i>Journal of Geographical Systems</i> , 2013, 15, 403-426.	1.9	31
38	Introductory editorial: web-based sensors and geoprocessing services. <i>Applied Geomatics</i> , 2013, 5, 1-2.	1.2	2
39	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
40	Modelling the dynamics of soil redistribution induced by sheet erosion using the Universal Soil Loss Equation and cellular automata. <i>Geoderma</i> , 2013, 202-203, 112-125.	2.3	16
41	Model testing and assessment: Perspectives from a swarm intelligence, agent-based model of forest insect infestations. <i>Computers, Environment and Urban Systems</i> , 2013, 39, 121-135.	3.3	8
42	High Resolution Urban Land-use Change Modeling: Agent iCity Approach. <i>Applied Spatial Analysis and Policy</i> , 2012, 5, 291-315.	1.0	55
43	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
44	ForestSimMPB: A swarming intelligence and agent-based modeling approach for mountain pine beetle outbreaks. <i>Ecological Informatics</i> , 2011, 6, 62-72.	2.3	23
45	Development of an urban landslide cellular automata model: a case study of North Vancouver, Canada. <i>Earth Science Informatics</i> , 2011, 4, 69-80.	1.6	11
46	Modeling-in-the-middle: bridging the gap between agent-based modeling and multi-objective decision-making for land use change. <i>International Journal of Geographical Information Science</i> , 2011, 25, 717-737.	2.2	34
47	Modeling the Dynamics of Complex Spatial Systems Using GIS, Cellular Automata and Fuzzy Sets Applied to Invasive Plant Species Propagation. <i>Geography Compass</i> , 2010, 4, 599-615.	1.5	10
48	Simulation and validation of a reinforcement learning agent-based model for multi-stakeholder forest management. <i>Computers, Environment and Urban Systems</i> , 2010, 34, 162-174.	3.3	38
49	Modeling mountain pine beetle infestation with an agent-based approach at two spatial scales. <i>Environmental Modelling and Software</i> , 2010, 25, 223-236.	1.9	40
50	Incorporating spatio-temporal knowledge in an Intelligent Agent Model for natural resource management. <i>Landscape and Urban Planning</i> . 2010, 96, 123-133.	3.4	11
51	Defining Transition Rules with Reinforcement Learning for Modeling Land Cover Change. <i>Simulation</i> , 2009, 85, 291-305.	1.1	4
52	Evaluating Spatio-temporal Complexities of Forest Management: An Integrated Agent-based Modeling and GIS Approach. <i>Environmental Modeling and Assessment</i> , 2009, 14, 481-496.	1.2	14
53	GIS and Intelligent Agents for Multiobjective Natural Resource Allocation: A Reinforcement Learning Approach. <i>Transactions in GIS</i> , 2009, 13, 253-272.	1.0	17
54	Collaborative GIS for spatial decision support and visualization. <i>Journal of Environmental Management</i> , 2009, 90, 1963-1965.	3.8	23

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55	Modeling urban growth using a variable grid cellular automaton. <i>Computers, Environment and Urban Systems</i> , 2009, 33, 35-43.	3.3	134
56	Agent-based model validation using Bayesian networks and vector spatial data. <i>Environment and Planning B: Planning and Design</i> , 2009, 36, 787-801.	1.7	14
57	Design and implementation of an integrated GIS-based cellular automata model to characterize forest fire behaviour. <i>Ecological Modelling</i> , 2008, 210, 71-84.	1.2	117
58	An object-oriented cellular automata model for forest planning problems. <i>Ecological Modelling</i> , 2008, 212, 359-371.	1.2	33
59	Collaborative spaces for GIS-based multimedia cartography in blended environments. <i>Computers and Education</i> , 2008, 50, 371-385.	5.1	22
60	Spatial patterns of forest floor properties and litterfall amounts associated with bigleaf maple in conifer forest of southwestern British Columbia. <i>Canadian Journal of Soil Science</i> , 2008, 88, 295-313.	0.5	10
61	A GIS-Based Irregular Cellular Automata Model of Land-Use Change. <i>Environment and Planning B: Planning and Design</i> , 2007, 34, 708-724.	1.7	113
62	Implications of error and uncertainty for an environmental planning scenario: A sensitivity analysis of GIS-based variables in a reserve design exercise. <i>Landscape and Urban Planning</i> , 2007, 79, 210-217.	3.4	48
63	iCity: A GIS-based CA modelling tool for urban planning and decision making. <i>Environmental Modelling and Software</i> , 2007, 22, 761-773.	1.9	219
64	Enhancing a GIS Cellular Automata Model of Land Use Change: Bayesian Networks, Influence Diagrams and Causality. <i>Transactions in GIS</i> , 2007, 11, 681-702.	1.0	43
65	Evaluating forest management practices using a GIS-based cellular automata modeling approach with multispectral imagery. <i>Environmental Modeling and Assessment</i> , 2007, 12, 105-118.	1.2	16
66	GIS-Based Multicriteria Evaluation and Fuzzy Sets to Identify Priority Sites for Marine Protection. <i>Biodiversity and Conservation</i> , 2007, 16, 2539-2558.	1.2	91
67	Spatial/temporal mismatch: a conflation protocol for Canada Census spatial files. <i>Canadian Geographer / Geographie Canadien</i> , 2006, 50, 74-84.	1.0	9
68	Modeling Collaborative GIS Processes Using Soft Systems Theory, UML and Object Oriented Design. <i>Transactions in GIS</i> , 2006, 10, 199-218.	1.0	16
69	Assessing cellular automata model behaviour using a sensitivity analysis approach. <i>Computers, Environment and Urban Systems</i> , 2006, 30, 921-953.	3.3	149
70	A fuzzy-constrained cellular automata model of forest insect infestations. <i>Ecological Modelling</i> , 2006, 192, 107-125.	1.2	72
71	Attitudes toward urban green spaces: integrating questionnaire survey and collaborative GIS techniques to improve attitude measurements. <i>Landscape and Urban Planning</i> , 2005, 71, 147-162.	3.4	164
72	A Web GIS collaborative framework to structure and manage distributed planning processes. <i>Journal of Geographical Systems</i> , 2004, 6, 133-153.	1.9	77

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73	The potential of Web-based GIS. <i>Journal of Geographical Systems</i> , 2004, 6, 79-81.	1.9	80
74	Space, Time, and Dynamics Modeling in Historical GIS Databases: A Fuzzy Logic Approach. <i>Environment and Planning B: Planning and Design</i> , 2001, 28, 545-562.	1.7	36
75	An application of fuzzy logic reasoning for GIS temporal modeling of dynamic processes. <i>Fuzzy Sets and Systems</i> , 2000, 113, 69-80.	1.6	26
76	A fuzzy set approach for modelling time in GIS. <i>International Journal of Geographical Information Science</i> , 2000, 14, 225-245.	2.2	44
77	Map Comparison Methods for Three-dimensional Space and Time Voxel Data. <i>Geographical Analysis</i> , 0, , .	1.9	2