

# mohammad Saadi Mesgari

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,100  
citations

430442

18  
h-index

414034

32  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1124  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive traffic signal control with actor-critic methods in a real-world traffic network with different traffic disruption events. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 85, 732-752.	3.9	136
2	Allocation of urban land uses by Multi-Objective Particle Swarm Optimization algorithm. <i>International Journal of Geographical Information Science</i> , 2013, 27, 542-566.	2.2	106
3	Evaluating the compatibility of multi-functional and intensive urban land uses. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2007, 9, 375-391.	1.4	86
4	Predicting air pollution using fuzzy genetic linear membership kriging in GIS. <i>Computers, Environment and Urban Systems</i> , 2009, 33, 472-481.	3.3	62
5	Evaluation and comparison of Genetic Algorithm and Bees Algorithm for location allocation of earthquake relief centers. <i>International Journal of Disaster Risk Reduction</i> , 2016, 15, 94-107.	1.8	57
6	Seismic human loss estimation for an earthquake disaster using neural network. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 931-939.	1.8	45
7	Automated clustering of trajectory data using a particle swarm optimization. <i>Computers, Environment and Urban Systems</i> , 2016, 55, 55-65.	3.3	43
8	Multiple criteria decision-making for hospital location-allocation based on improved genetic algorithm. <i>Applied Geomatics</i> , 2020, 12, 291-306.	1.2	43
9	Improved biogeography-based optimization using migration process adjustment: An approach for location-allocation of ambulances. <i>Computers and Industrial Engineering</i> , 2019, 135, 800-813.	3.4	38
10	An Agent-Based Modeling approach for sustainable urban planning from land use and public transit perspectives. <i>Cities</i> , 2018, 81, 91-100.	2.7	31
11	Traffic signal optimization through discrete and continuous reinforcement learning with robustness analysis in downtown Tehran. <i>Advanced Engineering Informatics</i> , 2018, 38, 639-655.	4.0	31
12	AGENT-BASED CROWD SIMULATION CONSIDERING EMOTION CONTAGION FOR EMERGENCY EVACUATION PROBLEM. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-1/W5, 193-196.	0.2	29
13	Towards Sustainable Urban Planning Through Transit-Oriented Development (A Case Study: Tehran). <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 402.	1.4	28
14	Optimized Location-Allocation of Earthquake Relief Centers Using PSO and ACO, Complemented by GIS, Clustering, and TOPSIS. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 292.	1.4	28
15	Spatio-temporal modeling of COVID-19 prevalence and mortality using artificial neural network algorithms. <i>Spatial and Spatio-temporal Epidemiology</i> , 2022, 40, 100471.	0.9	27
16	Simulation of urban growth using agent-based modeling and game theory with different temporal resolutions. <i>Cities</i> , 2019, 95, 102387.	2.7	26
17	An ontological structure for semantic interoperability of GIS and environmental modeling. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2008, 10, 342-357.	1.4	24
18	Spatial and temporal monthly precipitation forecasting using wavelet transform and neural networks, Qara-Qum catchment, Iran. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	23

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19	A novel spatial index using spatial analyses and hierarchical fuzzy expert system for obtaining green TOD: a case study in Tehran city. <i>Geocarto International</i> , 2019, 34, 1-22.	1.7	22
20	Spatial variability analysis of precipitation and its concentration in Chaharmahal and Bakhtiari province, Iran. <i>Theoretical and Applied Climatology</i> , 2019, 137, 2905-2914.	1.3	20
21	Spatial variability analysis of precipitation in northwest Iran. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	17
22	Modeling the Spatial and Temporal Variability of Precipitation in Northwest Iran. <i>Atmosphere</i> , 2017, 8, 254.	1.0	17
23	Developing an agent-based model for simulating the dynamic spread of Plasmodium vivax malaria: A case study of Sarbaz, Iran. <i>Ecological Informatics</i> , 2019, 54, 101006.	2.3	17
24	Developing adaptive traffic signal control by actor-critic and direct exploration methods. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2019, 172, 289-298.	0.3	16
25	Modeling land use interaction using linguistic variables. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 16, 42-53.	1.4	14
26	Development of a TOD Index through Spatial Analyses and HFIS in Tehran, Iran. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2018, 144, .	0.8	14
27	Detection of homogeneous precipitation regions at seasonal and annual time scales, northwest Iran. <i>Journal of Water and Climate Change</i> , 2017, 8, 701-714.	1.2	13
28	TRAFFIC TIME SERIES FORECASTING BY FEEDFORWARD NEURAL NETWORK: A CASE STUDY BASED ON TRAFFIC DATA OF MONROE. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-2/W3, 219-223.	0.2	13
29	Developing a methodology for modelling land use change in space and time. <i>Journal of Spatial Science</i> , 2017, 62, 261-280.	1.0	11
30	Modeling uncertainties in sodium spatial dispersion using a computational intelligence-based kriging method. <i>Computers and Geosciences</i> , 2011, 37, 1545-1554.	2.0	10
31	Using an Evolutionary Algorithm in Multiobjective Geographic Analysis for Land Use Allocation and Decision Supporting. <i>Geographical Analysis</i> , 2017, 49, 58-83.	1.9	10
32	Irrigation Water Allocation at Farm Level Based on Temporal Cultivation-Related Data Using Meta-Heuristic Optimisation Algorithms. <i>Water (Switzerland)</i> , 2019, 11, 2611.	1.2	8
33	Performance Comparison between the Multi-Colony and Multi-Pheromone ACO Algorithms for Solving the Multi-objective Routing Problem in a Public Transportation Network. <i>Journal of Navigation</i> , 2016, 69, 197-210.	1.0	7
34	Development a heuristic method to locate and allocate the medical centers to minimize the earthquake relief operation time. <i>Iranian Journal of Public Health</i> , 2013, 42, 63-71.	0.3	7
35	Application of a fuzzy inference system to mapping prospectivity for the Chahfiroozeh copper deposit, Kerman, Iran. <i>Journal of Spatial Science</i> , 2015, 60, 233-255.	1.0	6
36	OPTIMUM ALLOCATION OF WATER TO THE CULTIVATION FARMS USING GENETIC ALGORITHM. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-1/W5, 631-638.	0.2	6

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37	GIS-BASED ROUTE FINDING USING ANT COLONY OPTIMIZATION AND URBAN TRAFFIC DATA FROM DIFFERENT SOURCES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W5, 129-133.	0.2	5
38	Fuzzy topological simulation for deducing in GIS. Applied Geomatics, 2009, 1, 121-129.	1.2	2
39	Developing a Knowledge-Based Spatial Decision Support System for Urban Landuse Allocation. Journal of Applied Sciences, 2009, 9, 1758-1763.	0.1	2
40	An Intelligent Fuzzy Agent for Spatial Reasoning in GIS. Lecture Notes in Computer Science, 2009, , 639-647.	1.0	0
41	EVALUATION OF EFFECTING PARAMETERS ON OPTIMUM ARRANGEMENT OF URBAN LAND USES AND ASSESSMENT OF THEIR COMPATIBILITY USING ADJACENCY MATRIX. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W5, 725-728.	0.2	0