

Predicting the Areal Development of the City of Mashhad with the Automaton Fuzzy Cell Method

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Abstract : Rapid and uncontrolled expansion of cities has led to unplanned aerial development. In this way, modeling and predicting the urban growth of a city helps decision-makers. In this study, the aspect of sustainable urban development has been studied for the city of Mashhad. In general, the prediction of urban aerial development is one of the most important topics of modern town management. In this research, using the Cellular Automaton (CA) model developed for geo data of Geographic Information Systems (GIS) and presenting a simple and powerful model, a simulation of complex urban processes has been done.

Keywords : urban modeling, sustainable development, fuzzy cellular automaton, geo-information system

Conference Title : ICGRSGGIS 2022 : International Conference on Geodetic Remote Sensing, Geomatics and Geographic Information Systems

Conference Location : Barcelona, Spain

Conference Dates : June 09-10, 2022