

عنوان مقاله:

A study on the application of big data to develop the smart cities environment through the neural network model

محل انتشار:

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خلاصه مقاله:

The present study aims to provide a neural network model with regard to predictive variables such as big data in urban planning, efficient monitoring, resource management, and knowledge-based economy for sustainable development in smart cities. In this study, a random sample consisting of ۲۱۲ survey responses from Oman was collected and analyzed in a neural network model. Predictors made in the field of sustainable development in smart cities include big data in knowledge-based economy (۲۲۹), big data in monitoring (۲۵۱), big data in urban planning (۲۲۵), and big data in resource management (۲۲۴). The obtained findings indicate that the neural network model consisting of predictors effectively had the ability to correctly predict ۶۰.۰% during training and ۷۲.۶% during testing for sustainable development in smart cities.

کلمات کلیدی:

neural network model, Urban planning, monitoring, Knowledge-based economy, Sustainable Development, smart cities, big data

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