

[DOI: 10.20472/IAC.2019.049.043](https://doi.org/10.20472/IAC.2019.049.043)

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AN INTEGRATED APPROACH FOR BUILDING A SUSTAINABLE CITY DEVELOPMENT ASSESSMENT MODEL

Abstract:

In recent years, countries around the world have proposed the vision of future cities such as “smart cities”, “sustainable cities” and “inclusive cities”. Cities have also proposed relevant policies and measures, and hope to create a livable place. However, the composition of the city is wide and complex, and the future city is not only able to consider only one aspect. The planning of the future city should incorporate the concept of smartness, sustainability and inclusiveness. With the application of novel technologies in the future, the effective use and management of urban resources can be achieved, and the social network of citizens tends to be fair and harmonious, which enables the city to move towards sustainable urban development. Based on the planning criteria of smart cities, sustainable cities, and inclusive cities, this study will construct an assessment framework that is consistent with future cities. Through the Fuzzy Delphi Method (FDM) and the Analytic Network Process (ANP), the future urban development evaluation model is constructed considering the priority of its evaluation criteria. Finally, an empirical analysis of the future urban assessment model for Taichung City, Taiwan will be conducted to verify the suitability of the model and propose further planning strategies.

Keywords:

Analytic network process, Inclusive city, Smart city, Sustainable city

JEL Classification: R58, C00, O21