

Health-oriented Evaluation of the Spatial Distribution of Urban Green Space in Wuhan Inner City Area

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Urban green space and green infrastructures have been recognized and utilized as one key strategy to solve the emerging urban public health issues being widely concerned and discussed in theory and practice. On urban green space' contribution to urban health, existing literatures mainly focus on the meso-scale characteristics of urban green space such as accessibility, availability, proximity, and its micro-scale attributes like area, quantity, constituent elements and environmental perception. Few studies have systematically examined the macro-scale characteristics of the spatial distribution of urban green space from the perspective of residents' health promotion. Regarding this, the paper takes the inner city area of Wuhan as an example to evaluate the spatial distribution characteristics of the green space with street-level prefecture as the basic analysis unit. By buffer analysis and network analysis, the evaluation is conducted from five dimensions which are greenness, connectivity, equilibrium, availability and equality. The results show that the green space's health-promotion performance is not satisfactory in all the five dimensions, especially in equilibrium, availability and equality. Therefore, it concludes that to improve the green space' equilibrium, equality and availability in Wuhan inner city area will be the key to promote the overall city-health of Wuhan.

Biography

Yuping Dong is a Ph.D Candidate in the Department of Urban Planning, Huazhong University of Science and Technology, China. She got her Master Degree in Wuhan University, China. Her research interest centres on the healthy effect of the urban green space system.

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