

# 现代福州市城市用地扩展进程研究

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**摘要:** 城市用地扩展是城市化的直接表现。定量研究城市用地的扩展过程, 对判断城市发展水平有积极意义, 并能为城市空间的可持续发展提供科学准确的决策辅助信息。本文借助 GIS、RS 等技术, 选取城市用地扩张系数、用地形状分维数、方位比重指数等指标, 从城市用地扩展速度、形态的变化和扩展方向等角度对现代福州市城市用地扩展进程进行分析, 将现代福州市用地扩展进程分为四个阶段, 并对其扩展特征及发展战略进行了初步探讨。

**关键词:** 城市扩展, 城市化, GIS, 空间分析

Quantitative monitoring of urban expansion --- Case study of Fuzhou city

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**Abstract:** Urban expansion is the direct reflection of urbanization processing. The quantitative measurements and dynamic monitoring of expansion of urban land are key steps for urban studies and urban planning. The outcomes of this research can provide useful information for planners and decision-makers concerning sustainable use of urban spaces. In this research, we choose the urban expansion index, the fragmental dimension number of land use morphology, the directional proportion index and use as measures to quantitatively describe the dynamic urban expansion in terms of speed, morphology and direction etc. based on GIS and remote sensing technologies. The methods and testing results are presented in this paper which is mainly based on the case study of Fuzhou city.

**Key words:** Urban expansion, Urbanization, GIS, Spatial analysis