

研究报告

基于RS和GIS的杭州城市生态环境质量综合评价技术

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摘要 针对生态环境质量传统评价技术的不足,开展中小尺度区域RS和GIS相结合的评价技术研究.将研究区域和评价单元网格化,由RS和GIS技术获取生态环境空间数据,选取自然环境条件、环境质量、自然景观格局和城市化影响4大类共11个指标为评价指标,并利用GIS空间分析技术,将环境污染常规监测数据和社会经济统计数据同化到小网格评价单元进行综合评价,并与城市热岛效应对比,分级评价结果基本符合杭州市区生态环境质量现状.

关键词 [RS](#) [GIS](#) [城市生态环境质量评价](#) [网格化](#)

分类号

Ecological environmental quality assessment of Hangzhou urban area based on RS and GIS

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Abstract

In allusion to the shortage of traditional ecological environmental quality assessment, this paper studied the spatial distribution of assessing factors at a mid-small scale, and the conversion of integer character to girding assessing cells. The main assessing factors including natural environmental condition, environmental quality, natural landscape and urbanization pressure, which were classified into four types with about eleven assessing factors, were selected from RS images and GIS-spatial analyzing environmental quality vector graph. Based on GIS, a comprehensive assessment model for the ecological environmental quality in Hangzhou urban area was established. In comparison with observed urban heat island effects, the assessment results were in good agreement with the ecological environmental quality in the urban area of Hangzhou.

Key words [RS](#) [GIS](#) [Urban ecological environmental quality assessment](#) [Girding](#)

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