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Remote sensing technology has been one of the primary methods for acquiring data on the impervious areas of watersheds for tax assessment, mapping and modeling applications and continues to be one of the most promising technologies for providing

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detailed mapping information as input into watershed level management decisions.

Remote sensing of impervious surfaces: A review: Remote ...

The rapidly expanding urban surfaces of today are generally impervious to water and are a key environmental indicator (Arnold



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and Gibbons 1996) that can be measured with remote sensing. Roads,...

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Remote sensing of impervious surfaces should consider the requirements for mapping three interrelated entities or

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substances on the Earth surface (i.e., material, land cover, and land use) and their relationships. Mapping of each entity/substance must consider the spectral resolution of a remote sensor.

Remote sensing of impervious surfaces in the urban areas ...

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attention. In this paper, various digital remote sensing approaches to extract and estimate impervious surfaces will be examined.

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Remote sensing of impervious surfaces in the urban areas ...

In remote sensing, deriving sub-pixel

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information of impervious surface cover from medium or low resolution imagery is therefore an important research topic (Mohapatra and Wu, 2010, Van de Voorde et al., 2008, Wu, 2004, Yuan et al., 2008).

The basic idea is that sub-pixel fractions of different land-cover types within a pixel can be derived from the composite spectrum by

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spectral mixture analysis or regression techniques.

Mapping impervious surface change from remote sensing for ...

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field. It provides detailed coverage of mapping, data extraction, and modeling techniques specific to analyzing impervious surfaces, such as roads and buildings.

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Although remote sensing data brings

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desirable properties (large cover- age, information of spectral reflectance, etc.), impervious surface estimation is still a difficult task due to the complex- ity of urban/suburban land cover, as well as the limitations of spectral and spatial resolution of remote sensing imagery (Lu and Weng, 2006).

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Book Description. Remote Sensing of Impervious Surfaces in Tropical and Subtropical Areas offers a complete and thorough system for using optical and synthetic aperture radar (SAR) remote

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sensing data for improving impervious surface estimation (ISE). Highlighting tropical and subtropical areas where there is significant cloud occurrence and varying phenology, the book addresses the challenges ...

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Tropical and...

It further explores the broader use of remote sensing technology in this area, including the potential for a new generation of instruments to improve the analysis of impervious surfaces. View Show ...

Urban Impervious Surface Extraction Based

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By 2017, the total impervious surface area in China has been 209,950 km<sup>2</sup> while in Japan this value was 14,290 km<sup>2</sup>, 6.8% of China ' s total. The 2017 per capita impervious surface area of Chinese people



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(151.7 m<sup>2</sup>) was 35% more than that of Japanese people (112.7 m<sup>2</sup>). China's over-expansion in land development is worthy of deeper analysis.

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40-Year (1978 – 2017) human settlement changes in China ...

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