

Remote Sensing Of Impervious Surfaces In Tropical And Subtropical Areas Remote Sensing Applications Series

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Remote sensing of impervious surfaces has matured using advances in geospatial technology so recent that its applications have received only sporadic coverage in remote sensing literature. Remote Sensing of Impervious Surfaces is the first to focus entirely on this developing 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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Remote Sensing of Impervious Surfaces : Qihao Weng (editor) ...

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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 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 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 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.

Buy remote sensing of impervious surfaces in the urban areas ...

Buy Remote Sensing of Impervious Surfaces (Remote Sensing Applications Series) 1 by Weng, Qihao (ISBN: 9781420043747) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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

In remote sensing, deriving sub-pixel 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 spectral mixture analysis or regression techniques.

Mapping impervious surface change from remote sensing for ...

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Remote Sensing of Impervious Surfaces is the first to focus entirely on this developing 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 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).

Urban Impervious Surface Estimation from Remote Sensing ...

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 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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Urban Impervious Surface Extraction Based on the ...

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By 2017, the total impervious surface area in China has been 209,950 km 2 while in Japan this value was 14,290 km 2, 6.8% of China's total. The 2017 per capita impervious surface area of Chinese people (151.7 m 2) was 35% more than that of Japanese people (112.7 m 2). China's over-expansion in land development is worthy of deeper analysis.

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

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