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Remote Sensing of Impervious Surfaces - 1st Edition ... 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.

Remote Sensing of Impervious Surfaces (Remote Sensing ... Remote sensing of impervious surfaces in the urban areas: Requirements, methods, and trends 1. Introduction. Impervious surfaces are anthropogenic features through which water cannot infiltrate into the soil,... 2. Remote sensing data considerations. Spatial resolution is a function of sensor ... Remote sensing of impervious surfaces in the urban areas ... 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 in Tropical and ... 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,...

(PDF) Remote Sensing of Impervious Surfaces and Building ... Impervious surface data is important for urban planning and environmental and resources management. Therefore, remote sensing of impervious surfaces in the urban areas has recently attracted unprecedented attention. In this paper, various digital remote sensing approaches to extract and estimate impervious surfaces will be examined.

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 ... Various digital remote sensing approaches have been developed to measure impervious surfaces, including mainly: (1) image classification, (2) multiple regression, (3) subpixel classification, (4) artificial neural network, and (5) classification and regression tree (CART) algorithm.

2007 by Taylor & Francis Group, LLC. The Klamath Reclamation Project was initiated in 1906 to provide irrigation water and irrigable land in the Klamath Basin, Oregon. As part of these efforts the “A” Canal was built through the City of Klamath Falls and was completed in 1907. Since that date, the City of Klamath Falls has grown considerably with a concurrent increase in the amount of impervious surface.

Impervious Surface Mapping - Klamath Falls, Oregon | Land ... 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.
By 2017, the total impervious surface area in China has been 209,950 km² while in Japan this value was 14,290 km², 6.8% of China’s total. The 2017 per capita impervious surface area of Chinese people (151.7 m²) was 35% more than that of Japanese people (112.7 m²). China’s over-expansion in land development is worthy of deeper analysis.

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

Prediction of ecological effects of potential population and impervious surface increases using a remote sensing based ecological index (RSEI)

Although remote sensing data brings desirable properties (large coverage, information of spectral reflectance, etc.), impervious surface estimation is still a difficult task due to the complexity 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 ...

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...

Remote sensing of impervious surfaces: A review

The amount of impervious surface is an important indicator in the monitoring of the intensity of human activity and environmental change. The use of remote sensing techniques is the only means of...

Remote Sensing of Impervious Surfaces in Tropical and Subtropical Areas investigates the state of the art in creating new algorithms for digital images processing and remotely sensed images classification, as well as in developing the meteorological modeling of urban heat islands, and the hydrological modeling of surface run-off and urban floods.

Remote Sensing of Impervious Surfaces in Tropical and ...

Impervious surfaces and flooding. If you are not familiar with the term “impervious surface,” this picture will help explain it. As cities grow and more development occurs, the natural landscape is replaced by roads, buildings, housing developments, and parking lots.

Impervious Surfaces and Flooding - USGS.gov

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...

Remote Sensing of Impervious Surfaces by Qihao Weng ...

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).

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