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### **Remote Sensing Of Impervious Surfaces**

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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

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modeling techniques  
specific to analyzing  
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of the art in creating  
new algorithms for  
digital images



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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.

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**Remote Sensing of  
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## Remote Sensing

### Of Impervious

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.

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Surfaces In

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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**(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,

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various digital remote sensing approaches to extract and estimate impervious surfaces will be examined.

## Remote Sensing Applications Series **Remote sensing of impervious surfaces in the urban areas ...**

Remote sensing of  
impervious surfaces in  
the urban areas:  
Requirements,  
methods, and trends 1.  
Introduction.  
Impervious surfaces  
are anthropogenic

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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 ...**

In remote sensing,  
deriving sub-pixel  
information of  
impervious surface  
cover from medium or  
low resolution imagery

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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**



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**surface change from  
remote sensing for**

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Surface  
The conventional  
methods of urban  
impervious surfaces  
extraction mainly use  
the shallow-layer  
machine learning  
algorithms based on  
the medium- or low-  
resolution remote  
sensing images, and  
always provide low  
accuracy and poor  
automation level  
because the potential

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of multi-source remote sensing data are not fully utilized and the low-level features are not effectively organized.

**Automatic  
extraction of urban  
impervious surfaces  
based on ...**

Various digital remote sensing approaches have been developed to measure impervious surfaces, including mainly: (1) image

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Of Impervious  
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,

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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**

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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...

## **Remote Sensing of Impervious Surfaces by Qihao Weng ...**

Prediction of ecological effects of potential population and

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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

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Since

sensing techniques is  
the only means of...

**(PDF) Development  
of a global 30-m  
impervious surface  
map ...**

In this regard, very  
high resolution (VHR)  
remote sensing data  
offers a cost-effective  
solution for area-wide  
surveying and  
monitoring of  
impervious surfaces.  
Traditional approaches  
for estimation of

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imperviousness are mostly based on aerial surveys, which are collected on demand at a high data cost.

## Remote Sensing **Impervious Surface Estimation | European Space Imaging**

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(Book, 2008 ...**

**Abstract.** The amount of impervious surface is an important indicator in the monitoring of the intensity of human

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of a global 30 m  
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