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Advances in earth
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Image Analysis
and GIScience have led
to the emerging fields
of Object-based Image
Analysis (OBIA). The
need for timely and
accurate geo-spatial
information is steadily
increasing.

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Analysis (OBIA). The need for timely and accurate geo-spatial information is steadily increasing.

Object-Based Image Analysis - Spatial Concepts for ...

Overview. This book addresses the Geographic Information Systems (GIS) and Remote Sensing communities worldwide by presenting a collection of 43 peer-

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reviewed
interdisciplinary
perspectives on Object-
Based Image Analysis
(OBIA). OBIA is a recent
sub-discipline of
Geographic Information
Science devoted to
developing automated
methods to partition
remote sensing
imagery into
meaningful image-
objects, and assessing
their characteristics
through spatial,
spectral and temporal

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scales.

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objects, and assessing
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through spatial,

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Analysis (OBIA). The
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Object-Based Image Analysis | Concepts

SpringerLink

Object-based image analysis (OBIA) has emerged over the last years from integrating geospatial concepts and advanced image analysis techniques. Spatial properties like size and form, neighborhood and context, scale and hierarchy, are utilized for better exploit imagery and other

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image-like continuous
data.

**Remote Sensing |
Special Issue :
Object-Based Image
Analysis**

Object based image
analysis for remote
sensing 1. Introduction.
Environmental
monitoring
requirements,
conservation goals,
spatial planning
enforcement, or... 2.
Object based image

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analysis in remote
sensing. What's wrong
with pixels? Blaschke
and Strobl (2001) have
raised the... 3. Content
Sensing

Object based image analysis for remote sensing - ScienceDirect

Object-based image
analysis (OBIA)
improves processing
efficiency by
implementing image
segmentation

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algorithms to combine
groups of pixels into
objects (segments)
reducing the amount of
information in and
image.

Object-based Land Cover Classification with Python | by ...

Object - based image
analysis (OBIA), a
technique used to
analyze digital
imagery, was
developed relatively
recently compared to

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traditional pixel-based
image analysis
(Burnett and Blaschke
2003).

**Object-based
Classification [] -
Landscape Toolbox**

Object-oriented
classification is based
on image
segmentation, in which
adjacent pixels with
similar multispectral or
spatial characteristics
are grouped into
objects. These objects,

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sometimes called
superpixels, represent
partial or complete
features and are
processed using a
variety of classifiers to
produce a class map.
Applications

**Introduction to the
ArcGIS Pro Image
Analyst extension ...**

Object-Based Image
Analysis (OBIA)
employs two main
processes,
segmentation and
classification.

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Traditional image
segmentation is on a
per-pixel basis.
However, OBIA groups
pixels into
homogeneous objects.
These objects can have
different shapes and
scale.

Image analysis - Wikipedia

Object-based image
analysis (OBIA) allows
researchers and
decision managers to
integrate data from

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disparate sources at
multiple scales and
employ color, shape,
and context for
creating meaningful...

Object-Based Image Analysis

The detection of
temporal and spatial
changes was
performed by
comparing seafloor
maps created using
object-based image
analysis and
supervised classifiers.

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Object-Based Image Analysis: Strengths, Weaknesses ...

The object-based classification approach overcame the problem of salt- and-pepper effects found in classification results from traditional pixel-based approaches. The method takes advantage of the rich amount of local spatial information present in the irregularly shaped

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objects in an image.

Spatial Concepts

Object-based Detailed Vegetation Classification with ...

The amount of
scientific literature on
(Geographic) Object-
based Image Analysis –

GEOBIA has been and
still is sharply

increasing. These

approaches to
analysing imagery
have antecedents in
earlier research on
image segmentation

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and use GIS-like spatial
analysis within
classification and
feature extraction
approaches.

**Geographic Object-
Based Image
Analysis - Towards a
new ...**

In: Blaschke T, Lang S,
Hay GJ (Eds) Object-
Based Image Analysis -
Spatial concepts for
knowledge-driven
remote sensing
applications, Springer-

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Verlag, Berlin Google
Scholar Definiens
(2007) Definiens
Bridges the Gap
between Remote
Sensing and GIS. Press
release, Munich,
Germany/San Diego,
CA, USA - June 18th.

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Based Image
Analysis (GEOBIA): A
new ...**

The amount of
scientific literature on
(Geographic) Object-

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GEOBIA has been and
still is sharply
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approaches to
analysing imagery
have antecedents in
earlier...

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...

Fine spatial resolution
(FRes) commercial
satellite image in
conjunction with

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geographic object-
based image change
analysis (GEOBICA)
methods have been
used to generate
detailed and accurate
urban LCLU maps. The
integration of a
backdating approach
improves LCLU change
classification results for
the first date of a bi-
temporal image
sequences.

**Land cover and land
use change analysis**

Bookmark File PDF Object Based Image Analysis **using multi ...**

A prototype knowledge- and object-based image analysis model was developed to inventory and map least tern and piping plover habitat on the Missouri River, USA. The model has been used to inventory the state of sandbars annually for 4 segments of the Missouri River since 2006 using QuickBird imagery. Interpretation

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of the state of
sandbars is difficult
when images for the
segment are acquired
...
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cd98f00b204e9800998
ecf8427e.
And Cartography