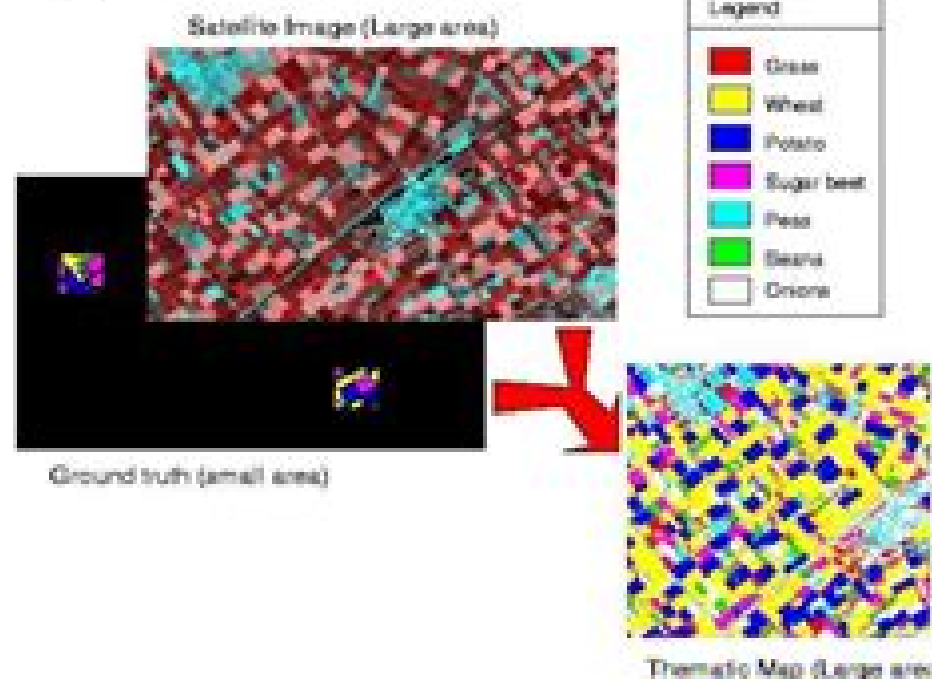# Pixel versus Object based Image Analysis, OBIA

- First, let's look at 'normal' pixel based image analysis:
- This is based purely on pixels, reflectance values
- For classification, **multiple pixels are grouped into classes** based on **spectral characteristics**
- Classes represent features on Earth

Supervised Classification

Satellite Image (Large area)

Legend
- Grass
- Wheat
- Potato
- Sugar beet
- Peas
- Beans
- Onions

Ground truth (small area)

Thematic Map (Large area)

Object Based Image Analysis Object Based Image Analysis

Padraig Corcoran

Object Based Image Analysis Object Based Image Analysis:

   Object-Based Image Analysis Thomas Blaschke,Stefan Lang,Geoffrey Hay,2008-08-09 This book brings together a collection of invited interdisciplinary persp tives on the recent topic of Object based Image Analysis OBIA Its c st tent is based on select papers from the 1 OBIA International Conference held in Salzburg in July 2006 and is enriched by several invited chapters All submissions have passed through a blind peer review process resulting in what we believe is a timely volume of the highest scientific theoretical and technical standards The concept of OBIA first gained widespread interest within the GIScience Geographic Information Science community circa 2000 with the advent of the first commercial software for what was then termed obje oriented image analysis However it is widely agreed that OBIA builds on older segmentation edge detection and classification concepts that have been used in remote sensing image analysis for several decades Nevert less its emergence has provided a new critical bridge to spatial concepts applied in multiscale landscape analysis Geographic Information Systems GIS and the synergy between image objects and their radiometric char teristics and analyses in Earth Observation data EO   Multispectral Image Analysis Using the Object-Oriented Paradigm Kumar Navulur,2006-12-05 Bringing a fresh new perspective to remote sensing object based image analysis is a paradigm shift from the traditional pixel based approach Featuring various practical examples to provide understanding of this new modus operandi Multispectral Image Analysis Using the Object Oriented Paradigm reviews the current image analysis methods and demonstrates advantages to improve information extraction from imagery This reference describes traditional image analysis techniques introduces object oriented technology and discusses the benefits of object based versus pixel based classification It examines the creation of object primitives using image segmentation approaches and the use of various techniques for object classification The author covers image enhancement methods how to use ancillary data to constrain image segmentation and concepts of semantic grouping of objects He concludes by addressing accuracy assessment approaches The accompanying downloadable resources present sample data that enable the use of different approaches to problem solving Integrating remote sensing techniques and GIS analysis Multispectral Image Analysis Using the Object Oriented Paradigm distills new tools to extract information from remotely sensed data   **Object-Based Image Analysis and Treaty Verification** Sven Nussbaum,Gunter Menz,2008-01-09 With the launch of very high resolution satellite sensors at the beginning of this decade e g IKONOS OrbView QUICKBIRD many important new remote se ing applications have been developed Major progress has been demonstrated in the accurate detection identi cation and analysis of small scale site speci c f tures including critical commercial and industrial facilities such as nuclear power plants According to IAEA Director General and 2005 Nobel Peace Prize winner Dr Mohamed ElBaradei the provision of the necessary information and guarantees for monitoring the Iranian nuclear programme is an urgent priority for the future Today satellite imagery analysis is an integral part of the International Atomic Energy Agency s IAEA safeguards and veri cations efforts and high resolution commercial satellite imagery is an

important component of this process Several international studies have proven the usefulness and documented the plicability of remotely sensed data for site veri cation purposes Recent important developments in satellite sensor capabilities and innovations in analytic techniques make it clear that this hardware software complex is changing and improving rapidly This book documents the latest developments in satellite data analysis and comprehensively describes the process of extracting information from space borne sensor data for site veri cation purposes **Object-based Image Analysis for Scaling Properties of Rangeland Ecosystems** Jason William Karl,2009 Geographic Object-based Image Analysis ,2007 The field of earth observation EO has seen tremendous development over recent time owing to the increasing quality of the sensor technology and the increasing number of operational satellites launched by several space organizations and companies around the world Traditionally the satellite data is analyzed by only considering the spectral characteristics measured at a pixel The spatial relations and context were often ignored With the advent of very high resolution satellite sensors providing a spatial resolution of 5m the shortfalls of traditional pixel based image processing techniques became evident The need to identify new methods then led to focusing on the so called object based image analysis OBIA methodologies Unlike the pixel based methods the object based methods which are based on segmenting the image into homogeneous regions use the shape texture and context associated with the patterns thus providing an improved basis for image analysis The remote sensing data normally has to be processed in a different way to that of the other types of images In the geographic sense OBIA is referred to as Geographic Object Based Image Analysis GEOBIA where the GEO pseudo prefix emphasizes the geographic components This thesis will provide an overview of the principles of GEOBIA describe some fundamentally new contributions to OBIA in the geographical context and finally summarize the current status with ideas for future developments **Segmentation of Urban Remotely Sensed Imagery for Object Based Image Analysis** Padraig Corcoran,2008 *Geographic Object Based Image Analysis* Prashanth Reddy Marpu,2009 **Image and Signal Processing for Remote Sensing** ,2006 **Object-based Image Analysis for Detection and Segmentation Tasks in Biomedical Imaging** Michael Schwier,2016 Multiple Feature Object-Based Change Detection Technology for Very High-Resolution Remote Sensing Image Qiang Chen,Yunhao Chen,Mingyi Du,2026-01-01 This book is devoted to the theory and method of the change detection on very high resolution remote sensing image Since the very high resolution remote sensing images have been used in the field of land cover or land use change detection problems such as salt and pepper effect single spectral feature and the difficulty of discrimination of change types always affect the accuracy of information extraction by using the object based image analysis This book comprehensively introduces the filed from basic theory of remote sensing change detection to various key technologies such as multi scale image segmentation consistency difference analysis genetic particle swarm optimization multi feature selection adaptive weight change vector analysis and so on Using numerous data examples it explains the relevant concepts and theoretical background of the object based change detection and proposes a theoretical

method and process of multi feature change detection of very high resolution remote sensing images The targeted audience is advance graduate students and researchers who wish to learn about the physical process underlying the image segmentation feature selection and change detection by using the very high resolution remote sensing in the perspective of the object based image analysis The basis of English translation of this book originally in Chinese was facilitated by artificial intelligence The content was later revised by the author for accuracy *Object Based Image Analysis* Tommaso Ramponi,Københavns Universitet. Institut for Geografi og Geologi,2012 **Segmentation and Classification of Remotely Sensed Images** Abdul Haleem Syed,2015 Land use and land cover LULC mapping is crucial in precision agriculture environmental monitoring disaster response and military applications The demand for improved and more accurate LULC maps has led to the emergence of a key methodology known as Geographic Object Based Image Analysis GEOBIA The core idea of the GEOBIA for an object based classification system OBC is to change the unit of analysis from single pixels to groups of pixels called objects through segmentation While this new paradigm solved problems and improved global accuracy it also raised new challenges such as the loss of accuracy in categories that are less abundant but potentially important Although this trade off may be acceptable in some domains the consequences of such an accuracy loss could be potentially fatal in others for instance landmine detection This thesis proposes a method to improve OBC performance by eliminating such accuracy losses Specifically we examine the two key players of an OBC system Hierarchical Segmentation and Supervised Classification Further we propose a model to understand the source of accuracy errors in minority categories and provide a method called Scale Fusion to eliminate those errors This proposed fusion method involves two stages First the characteristic scale for each category is estimated through a combination of segmentation and supervised classification Next these estimated scales segmentation maps are fused into one combined object map Classification performance is evaluated by comparing results of the multi cut and fuse approach proposed to the traditional single cut SC scale selection strategy Testing on four different data sets revealed that our proposed algorithm improves accuracy on minority classes while performing just as well on abundant categories Another active obstacle presented by today s remotely sensed images is the volume of information produced by our modern sensors with high spatial and temporal resolution For instance over this decade it is projected that 353 earth observation satellites from 41 countries are to be launched Timely production of geo spatial information from these large volumes is a challenge This is because in the traditional methods the underlying representation and information processing is still primarily pixel based which implies that as the number of pixels increases so does the computational complexity To overcome this bottleneck created by pixel based representation this thesis proposes a dart based discrete topological representation DBTR where the DBTR differs from pixel based methods in its use of a reduced boundary based representation Intuitively the efficiency gains arise from the observation that it is lighter to represent a region by its boundary darts than by its area pixels We found that our implementation of DBTR not only improved

our computational efficiency but also enhanced our ability to encode and extract spatial information Overall this thesis presents solutions to two problems of an object based classification system accuracy and efficiency Our proposed Scale Fusion method demonstrated improvements in accuracy while our dart based topology representation DBTR showed improved efficiency in the extraction and encoding of spatial information Abstract **Multiple Feature Object-Based Change Detection Technology for Very High-Resolution Remote Sensing Image** Qiang Chen,Yunhao Chen,Mingyi Du,2025-12-24 This book is devoted to the theory and method of the change detection on very high resolution remote sensing image Since the very high resolution remote sensing images have been used in the field of land cover or land use change detection problems such as salt and pepper effect single spectral feature and the difficulty of discrimination of change types always affect the accuracy of information extraction by using the object based image analysis This book comprehensively introduces the filed from basic theory of remote sensing change detection to various key technologies such as multi scale image segmentation consistency difference analysis genetic particle swarm optimization multi feature selection adaptive weight change vector analysis and so on Using numerous data examples it explains the relevant concepts and theoretical background of the object based change detection and proposes a theoretical method and process of multi feature change detection of very high resolution remote sensing images The targeted audience is advance graduate students and researchers who wish to learn about the physical process underlying the image segmentation feature selection and change detection by using the very high resolution remote sensing in the perspective of the object based image analysis The basis of English translation of this book originally in Chinese was facilitated by artificial intelligence The content was later revised by the author for accuracy **Proceedings of the ... International Symposium on Remote Sensing of Environment** ,2005 **Pattern Recognition and Image Analysis** ,2005 Fourth IEEE Southwest Symposium on Image Analysis and Interpretation ,2000 From down where the computer or at least the computer images are bigger than elsewhere 59 papers cover segmentation stereo image analysis multiresolution multispectral and multidimensional analysis biomedical and color image analysis and features and invariants Texts of the two keynotes are not included A large poster session generated papers on such topics as a neural network approach to geographic image analysis determining camera position through the Karhunen Loeve transform the efficient indexing of multi color sets for content based image retrieval characterizing skin lesion texture in diffuse reflectance spectroscopic images the knowledge based extraction of roads from satellite images with one meter resolution detecting seat occupation inside vehicles and segmentation by color space transformation prior to lifting and integer wavelet transformation for efficient lossless coding and transmission Only authors are indexed Annotation copyrighted by Book News Inc Portland OR *Proceedings for the Twenty-ninth International Symposium on Remote Sensing of Environment* ,2002 *Sample Supervised Search Centric Approaches in Geographic Object-based Image Analysis* ,2015 **Proceedings for the ... International Symposium on Remote Sensing of Environment, the ...**

Symposium of the Canadian Remote Sensing Society ,2003   **Uncertainty of Object-Based Image Analysis for Drone Survey Images** Lei Ma,2018 With the recent developments in the acquisition of images using drone systems object based image analysis OBIA is widely applied to such high resolution images Therefore it is expected that the application of drone survey images would benefit from studying the uncertainty of OBIA The most important source of uncertainty is image segmentation which could significantly affect the accuracy at each stage of OBIA Therefore the trans scale sensitivity of several spatial autocorrelation measures optimizing the segmentation was investigated including the intrasegment variance of the regions Moran s I autocorrelation index and Geary s C autocorrelation index Subsequently a top down decomposition scheme was presented to optimize the segmented objects derived from multiresolution segmentation MRS and its potential was examined using a drone survey image The experimental results demonstrate that the proposed strategy is able to effectively improve the segmentation of drone survey images of urban areas or highly consistent areas

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Table of Contents Object Based Image Analysis Object Based Image Analysis

1. Understanding the eBook Object Based Image Analysis Object Based Image Analysis
    - The Rise of Digital Reading Object Based Image Analysis Object Based Image Analysis
    - Advantages of eBooks Over Traditional Books
2. Identifying Object Based Image Analysis Object Based Image Analysis
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Object Based Image Analysis Object Based Image Analysis
    - User-Friendly Interface
4. Exploring eBook Recommendations from Object Based Image Analysis Object Based Image Analysis
    - Personalized Recommendations
    - Object Based Image Analysis Object Based Image Analysis User Reviews and Ratings
    - Object Based Image Analysis Object Based Image Analysis and Bestseller Lists
5. Accessing Object Based Image Analysis Object Based Image Analysis Free and Paid eBooks
    - Object Based Image Analysis Object Based Image Analysis Public Domain eBooks
    - Object Based Image Analysis Object Based Image Analysis eBook Subscription Services
    - Object Based Image Analysis Object Based Image Analysis Budget-Friendly Options
6. Navigating Object Based Image Analysis Object Based Image Analysis eBook Formats

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