Abstract

The advancement of technology in satellite system has drastically improved the quality of images which we call high resolution images. Today we have many satellites which provide high resolution images such as QUICKBIRD, IKONOS, WORLD-VIEW etc. High resolution provides much greater detail of information such as buildings or trees etc. can be seen clearly. Now the question arises how we can extract these land objects which contain various information. Traditionally we use manual digitization which is a time taking task and not appropriate for the changing land details. In this modern world we need some fast techniques which can extract the land boundaries as well as give the information associated with them such as their area. Object based techniques are used for the high resolution images but it is associated with the problem of proper segmentation. This paper includes efficient technique for edge detection to define land boundaries and feature selection technique for land information extraction. So this paper aims to use an edge detection technique and object based classification to extract the land information automatically and then associate the area detail with each land object.
Land Information Extraction with Boundary Preservation for High Resolution Satellite Image

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**Index Terms**
- Computer Science
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**Keywords**
- Land Parcel
- Edge Detection
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- Feature Selection
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