OBJECT BASED APPROACHES FOR IDENTIFICATION OF LAND USE/LAND COVER CHANGES USING MULTITEMPORAL LANDSAT IMAGERY IN BANDUNG, WEST JAVA, INDONESIA

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ABSTRACT

Bandung is one of the major cities in Indonesia with high economic growth and high population growth. Economic and population growth can be effect to land use/land cover. Information of land use/land cover changes is important for anticipation of disaster. The land use/land cover changes can be detected using satellite imagery. Object based classification system, a promising method for image classification . This paper discuss the application of Landsat satellite remote sensing image in 2000 until 2010 to identify land use/land cover changes by using object based classification approach in Bandung, West Java, Indonesia. The methodology is consist of satellite data acquisition, pre-processing image, field survey, classification of land use/land cover using object based approach, ground check and analysis. The result shows statistics of the land use/land cover changes in Bandung, West Java, Indonesia.

Keywords : Object based, Landsat multitemporal, land use/land cover changes.