LOGIC BASED OBJECT ORIENTED LAND COVER CLASSIFICATION- A CASE STUDY OF CENTRAL NEPAL

H. Gilani[*a] S. Asif Siddiqui[a] K. Uddin[a] B. Bajracharya[a]

[a] ICIMOD, MENRIS, GPO Box 3226, Khumaltar, Lalitpur, Kathmandu, Nepal

KEY WORDS: Land Cover, Classification, Landsat, Satellite, Segmentation

ABSTRACT:

From last four decades several airborne/space borne platforms are being used to capture the earth from camera/sensor eyes. Image classification methods and algorithms of Remote Sensing (RS)techniques are being used. Supervised and Unsupervised classification techniques are very common and used to in remote sensing professionals. In this research paper as a case study on central Nepal, segmentation/object oriented land cover classification technique was adopted. By using the Definiens developer logic (condition) based classification was implemented on the segmented satellite imagery. Land Cover Classification System (LCCS) was implemented for legend formation. For each class identification and allocation very carefully different conditions (if and then) were applied Output of the logic based object based land cover classification was plausibly very satisfactory and all. All land cover object are well define and in pattern.

TOPIC: Land cover classification
ALTERNATIVE TOPIC: Remote sensing applications