

## **Analysis of Spatial and Temporal Data Using Remote Sensing Technology**

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**Abstract :** Spatial and temporal data analysis is very well known in the field of satellite image processing. When spatial data are correlated with time, series analysis it gives the significant results in change detection studies. In this paper the GIS and Remote sensing techniques has been used to find the change detection using time series satellite imagery of Uttarakhand state during the years of 1990-2010. Natural vegetation, urban area, forest cover etc. were chosen as main landuse classes to study. Landuse/ landcover classes within several years were prepared using satellite images. Maximum likelihood supervised classification technique was adopted in this work and finally landuse change index has been generated and graphical models were used to present the changes.

**Keywords :** GIS, landuse/landcover, spatial and temporal data, remote sensing

**Conference Title :** ICDIP 2016 : International Conference on Digital Image Processing

**Conference Location :** Paris, France

**Conference Dates :** January 21-22, 2016