

## Remote Sensing and GIS for Land Use Change Assessment: Case Study of Oued Bou Hamed Watershed, Southern Tunisia

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**Abstract :** Land use change is one of the important factors needed to evaluate later on the impact of human actions on land degradation. This work present the application of a methodology based on remote sensing for evaluation land use change in an arid region of Tunisia. This methodology uses Landsat TM and ETM+ images to produce land use maps by supervised classification based on ground truth region of interests. This study showed that it was possible to rely on radiometric values of the pixels to define each land use class in the field. It was also possible to generate 3 land use classes of the same study area between 1988 and 2011.

**Keywords :** land use, change, remote sensing, GIS

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