

# MAPPING VEGETATION IN HANOI USING TERRA ASTER AND GIS DATA

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## ABSTRACT

*Vegetation plays an important role in maintaining and improving human life quality in urban areas. It can and should be mapped with remote sensing and GIS to provide up to date information for land use planning and management at different levels. This paper deals with the use of Terra ASTER imagery, reference data, digital image processing and GIS techniques to map location, extent and condition of natural and cultivated vegetation in Hanoi, the capital of Vietnam. The mapped vegetation layer becomes part of an urban geographic database and can be used as input to spatial modeling for education, planning of rational resource use and environmental protection for sustainable development.*