

Abstract

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Identification of Riparian Vegetation Using Multi-Temporal Vegetation Indices

Track: Environment Solutions

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For a sustainable development of watershed, building, and monitoring inventories of riparian vegetation as one of inland ecotonal wetlands are very important. As a first step to manage riparian vegetation efficiently, we developed identification method using remote sensing and GIS techniques. Seasonal changes of riparian vegetation are recognized by multi-temporal vegetation indices (NDVI, PVI, GVI, etc.) to reflect the variation of riparian hydrology, soil moisture, and hydrophytes. Optimal seasons and vegetation indices to identify riparian from other land-covers are selected through the traversal line analysis of indices values. ArcView was adopted to build reference data and ERDAS IMAGINE was used to analyze vegetation indices and traverse values.

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