

VALIDAÇÃO DE DESCRITORES DE VEGETAÇÃO PARA DETECÇÃO DE TRAJETÓRIAS EVOLUTIVAS FLORESTAIS UTILIZANDO O ALGORITMO LANDTRENDR

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ABSTRACT

The Atlantic Forest is the main biome of the state of Rio de Janeiro and due to human action, its forests have suffered a considerable loss, so, its preservation should be a guideline in environmental planning projects. The Geotechnologies have been used as a important tool for studies of changes detection and the use of spectral vegetation descriptors are instruments which can help in this process. An analyze of time series are presented as an alternative to manual analysis, maximizing the amount of information on changes in forest cover. In this research, the LandTrendr algorithm was applied for the historical reconstruction of the changes in the forest cover of the last 30 years in a area of the Rio de Janeiro's state, where it was tried to establish which descriptor of vegetation behaves more efficiently for studies of evolutionary trajectories. For this, statistical tests were applied on its classification, the McNemar test and a validation from the Kappa Index, where the NDVI descriptor presented the best results.

Keywords: Time Series, Remote Sensing, Vegetation