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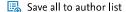
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Forest tree analysis at gunung basor reserve forest based on spot images

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Abstract

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Abstract

Forests are the most important ecosystems and carbon pool, imparting with ecological offering and show a significant function in economic advantages. However, in present years, with the economic development and fast populace increase, global forests are going through a sequence of threats, which is sharp declined in forest range, biodiversity damage and degradation in environmental and biological system. Forest resource analysis and monitoring are drastically essential to explore and prevent climate change, ecological degradation and environmental loss. Forest canopy cover is relatively critical parameter that being evaluated in forest analysis and forest inventory. This study is to evolve a systematic framework for Forest Canopy Density (FCD) in tropical rainforests that gives significant in forest regulatory, microclimate changing and soil conditions. FCD model components are based on few of indexes, which are advanced vegetation, bare soil and canopy shadow. The final results of Forest Canopy Density (FCD) for each classes which consist of 30% very dense, 37.3% moderately dense, 18.2%

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low forest, 8.2% shrub and 6.3% non-forest. The highest value of r² is 0.94 which was between FCD and AVI. This research study propose novel method to use high-resolution satellite images. Remote sensing has been plausible to be able to assess the forest structure and large area biomass in a way that is more accurate at relatively low cost. SPOT images provide better outcomes when categorizing variables of forest standoff and forest cover, as they have greater spatial resolution. Hence, SPOT-7 making it ideal for applications for forest analysis. © 2020 ACRS 2020 - 41st Asian Conference on Remote Sensing. All

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