

analyzing and prediction model on using VIIRS night data in Indonesia 2023

Forest fires that occurred in Indonesia, especially in the areas of Sumatra, Kalimantan and Sulawesi, have had many impacts on the environment. One of these fires was triggered by peatlands and the conversion of forests in Indonesia. Apart from that, climate change, for example in 2023, the El Nino phenomenon will have quite a significant impact.

One of the data that can be used is data from VIIRS (Visible Infrared Imaging Radiometer Suite) Night issued by the Earth Observatory Group, Colorado. This data is quite accurate and can be used as a reference for detecting changes that occur in the emergence of fire during the night.

With daily observations at several locations, it will be possible to analyze using machine learning to get predictions about the causes of forest fires or identify points where fires occur, even if they do not originate from forest fires but, for example, from landfills.

keywords
machine learning
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