

A Review on Crops Nutrien Retrieval from Hyperspectral Remote Sensing Imagery

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Abstract: Nutrient is important to crops growth and fresh fruit bunch (FFB) production. There are many studies has been done purposely to identify and extract the nutrient in crops. The recent technology used is remote sensing techniques. A lot of approaches have been carrying out using different types of images either from airborne or spaceborne sensors. The widespread use of hyperspectral images is a relatively recent trend and it provides opportunities to extract more detailed information. This review is particularly focused on the differences between multispectral and hyperspectral images capability in target detection and biochemical and structural parameter studies in different crops. Additionally, it is intending to focus on the application of hyperspectral imagery in ecological studies and, in particular the accurate monitoring growth and prediction yield of vegetation. A variety of crop is study to distinguish their nutrient contained. Moreover, the techniques used from early study will be evaluating in order to identify the best and economical method of assessing nutrient due to the issues of costly and time consuming.

Keyword: Nutrient, hyperspectral, multispectral, crop, remote sensing