

## Image Processing and Calculation of NGRDI Embedded System in Raspberry

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**Abstract :** The use and processing of digital images have opened up new opportunities for the resolution of problems of various kinds, such as the calculation of different vegetation indexes, among other things, differentiating healthy vegetation from humid vegetation. However, obtaining images from which these indexes are calculated is still the exclusive subject of active research. In the present work, we propose to obtain these images using a low cost embedded system (Raspberry Pi) and its processing, using a set of libraries of open code called OpenCV, in order to obtain the Normalized Red-Green Difference Index (NGRDI).

**Keywords :** Raspberry Pi, vegetation index, Normalized Red-Green Difference Index (NGRDI), OpenCV

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