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Remote sensing and Digital image processing

Under the direction of
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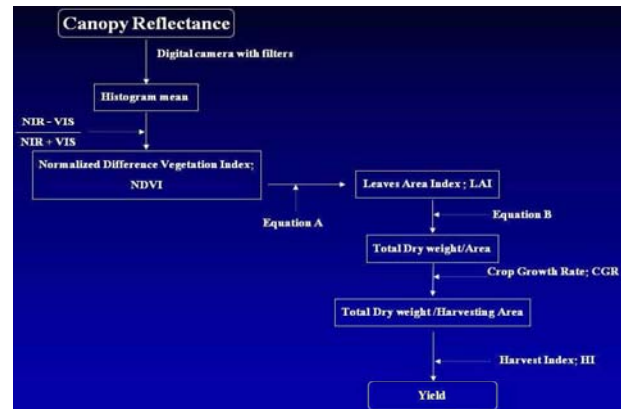
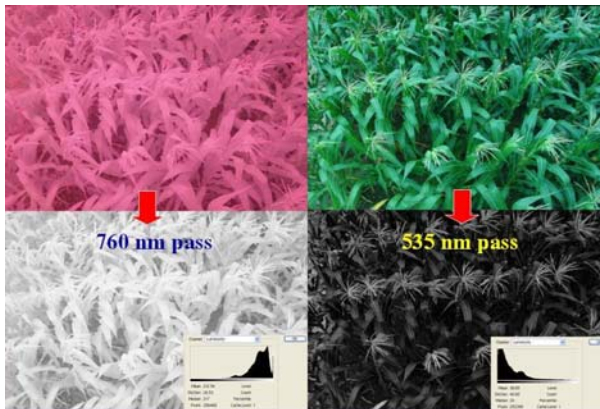
Interdisciplinary research emphasizing on agricultural systems technology related on remote sensing and digital image processing for agricultural land use planning and yield prediction.

- Research for canopy reflectance to predict growth and yield of crop.
- Landuse classification by using geo-informatics technologies .

Research Programs

Digital image processing

It is known that leaf area has a direct relation with growth and yields. In general, leaf area per unit of ground area is measured in terms of leaf area index (LAI). The visible wavelength and near infrared wave length are the wavelengths that used in estimation of LAI. The reflection image can be captured using digital camera to be taken with varying wavelength. By this approach, LAI can be determined anytime without being destructive to the plants throughout its growing season



Remote sensing

Crop yield can be measured using remote approach without contacting the samples. The satellite reflection image will be restoration and enhancement before making vegetation index. Then the training area values will be converted to yield by mathematical functions.

