

Remote Sensing in Agriculture

ABSTRACT

Precision agriculture is a comprehensive system designed to optimize food crop production. Geographic Information Systems and Remote Sensing are technologies currently being used by farmers to allow closer, more site-specific management of the factors affecting crop production. A combination of the key elements of information, technology, and sound management practices can be used to increase food production, improve product quality, increase the efficiency of agrochemical use, conserve energy and protect the environment.

Today's talk will broadly cover the following topics:

- GNSS, RS & GIS technologies
- Precision farming concept
- Components of precision agriculture
- Benefits of precision agriculture
- RS and GIS applications in agriculture
- The future of farming with precision technologies

Brief Bio of Speaker



Deejaysing JOGEE is presently Lecturer in the Civil Engineering Department at the University of Mauritius. He is a Registered Professional Civil Engineer with more than 10 years of experience in the design, supervision, and management of government construction projects in Mauritius. Before joining the public service, Deejaysing has worked with local private building and civil engineering firms on several large infrastructural projects. As a doctoral student, his research project mainly focuses on water and contaminant transfer mechanisms in two watersheds of Mauritius. He has worked and collaborated on several projects that encompass land analysis, rainwater harvesting systems, GIS and Remote Sensing, and landslide warning systems, which resulted in published papers and reports. He is currently part of a team at the University of Mauritius working on the feasibility study of landslide monitoring systems led by the Ministry of Public Infrastructure. Deejaysing's background spans a diverse range of disciplines and mediums including materials testing, water quality, engineering geology, Geoinformatics (GIS and Remote Sensing), agricultural engineering, engineering surveying, waste management, and health & safety in construction.