



Title: **Secure Cloud Computing Technologies for Recent Advances in
Remote Sensing data and Applications**

Dr. R.Rajkumar

Associate professor

School of Computer Science and Engineering

Vellore Institute of Technology,

Vellore, Tamil Nadu, India

Research Area: Data Analytics, Machine Learning

Dr.S.Prabu

Professor

School of Computer Science and Engineering

Vellore Institute of Technology,

Vellore, Tamil Nadu, India

Research Area: Satellite & Medical Image Processing, Cloud Data Security

Dr.S.Karthi

Associate Professor

Department of Computer Science and Engineering

V.S.B. Engineering College

Karur, Tamil Nadu, India

Research Area: Geospatial Data Processing, Cloud Security

Objective:

Recent development in remote sensing technology enhanced the exponential growth of remotely sensed image data. Thus, a huge volume of geospatial data comes from various domains such as agriculture, medical, educational sources water source and Road network. The increased volume, variability and velocity of the data makes it difficult to store and process using relational databases. Technological advancements in Geographic Information Systems (GIS) and cloud computing have facilitated data sharing through different framework. The proposed research work presents efficient methodologies to store and access geospatial data



using various tool in different environment. This supports indexing and management of large-scale queries in an efficient manner

The research work explores various challenges relating to security aspects of the Remote sensing data. Different techniques find to be the most appropriate technique for an efficient storage and management of Remote sensing data.

Keywords: Remote Sensing data, GIS, Cloud computing, Indexing

Topics of the Special Session

1. Remote Sensing Data Management and Applications
2. Geospatial data Advancements
3. Cloud Computing Technologies