Remote Sensing Handbook - Three Volume Set: Remotely Sensed Data Characterization, Classification, and Accuracies

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A volume in the **Remote Sensing Handbook** series, **Remotely Sensed Data Characterization, Classification, and Accuracies** documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are *Land Resources Monitoring, Modeling, and Mapping with Remote Sensing*, and *Remote Sensing of Water Resources, Disasters, and Urban Studies.*

This volume demonstrates the experience, utility, methods, and models used in studying a wide array of **remotely sensed data characterization, classification, and accuracies for terrestrial applications**. Leading experts on global geographic coverage, study areas, and array of satellite and sensors contribute to this unique handbook. This theoretical as well as highly practical book represents a thorough history of advancement in the field over last 50 years, bringing us to where we are now, and highlighting future possibilities.

Highlights include:

- Fundamental and advanced topics in remote-sensing satellites and sensors
- Remote sensing data calibration, normalization, harmonization, and synthesis
- Optical, Radar, LiDAR, thermal, hyperspectral, and other satellite sensors, normalization of remotely sensed data, and data degradations
- Digital image processing, urban image classification, and image classification methods in land use/land cover, cropland, change detection studies
- Enhanced vegetation indices and standardization of vegetation indices
- Object-based image analysis (OBIA) and geospatial data integration
- LiDAR data processing and applications
- Geoprocessing, GIS, and GIScience
- GNSS applications
- Crowdsourcing and cloud computing
- Google Earth for Earth Sciences
- Map accuracies
- Remote-sensing law or space law, and a host of other topics

Considered *magnum opus* **on the subject, the three-volume** *Remote Sensing Handbook* **is edited by Dr. Prasad S. Thenkabail of the United States Geological Survey and a renowned international expert in remote sensing and GIScience, with contributions from the very best leading global experts, the handbook gives you a knowledge base on the evolution of remote sensing science, current state-of-the-art technology, and a future vision for the field.**

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