North-East Workshop on

Trends in Remote Sensing and Geoscience Research

11 – 12 December 2021

IEEE Geoscience and Remote Sensing Society
Kolkata Chapter

Dept. Computer Applications
Sikkim University

Important Information:

Last date for application with fee: December 9, 2021.

Mode: Online

Registration Link

https://in.explara.com/e/north-east-workshop-on-trends-in-remote-sensing-and-geoscience-research

Fee Category:
GRSS member: Rs. 400/-
Non-GRSS member: Rs. 500/-

Remotely Sensed Data Mining

India is one of the leading countries in gathering remote sensing data from its own space program under the aegis of ISRO. The volume and variety of such data increased exponentially with the launch of varied sensors from ISRO, NASA, ESA etc. This makes the remote sensing data an ideal candidate for "big" data applications due to its sheer volume and varieties in terms of temporal, spatial and spectral resolutions, continuous collection of data (velocity) and necessity of ground validation (veracity). Many scientists in India are actively involved with remote sensing data analysis ranging from SAR data to microwave to optical. Through this workshop, we envision to expand the outreach of the on-going activities with eminent scientists across the globe.

Effective analysis of huge collections of apparently insignificant data can be very beneficial for companies, governments, medical sector etc. Despite the advancements in the broad field of computer science, storing, managing, processing and mining this "big" data is still a significant challenge. Machine learning plays an important role when it comes to making this "big" data useful. It creates a platform which helps to extract, understand and learn the underlying structure of data. Traditional machine learning methods may not suitable for handling big data as they are not always scalable and also, they were not always designed to handle the types of data that we encounter in big data. Hence, they need to be adapted or new methods need to be evolved to address it. All this needs to be done for the "value" that this "big" data holds. This value will have a significant impact on a wide range of Geoscience and Remote Sensing Society domains including healthcare, web services, finance & business informatics, scientific computing, and many others.

Objective

The aim of the workshop is to provide theoretical and practical insights on different aspects of Big Data Analysis. This workshop will also provide a platform to learn from experts as regards the current challenges in developing strategies and tools to address the issues pertaining to remotely sensed big data. Besides, it will also provide an opportunity to share and exchange ideas among peers of the respective research community.

Topics of interest include:

- Remote Sensing
- Geoinformatics
- Machine Learning
- Data Science
- Big Data Analysis

List of Speakers:

Subrat Kumar Acharya, NRSC (ISRO), Hyderabad
Ashish Ghosh, ISI, Kolkata
Rishikesh Bharti, IIT Guwahati
Anil K Misra, Sikkim University
Prashant K. Srivastava, BHU

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