Workshop on
Machine Learning and Big Data Analytics: Application to Remote Sensing
19 – 20 August 2019

IEEE Geoscience and Remote Sensing Society, Kolkata Chapter

Dept. Computer Applications
Sikkim University

Gangtok

Important Information:

Number of seats is limited to 40.

- **Last date of receipt of application is July 25, 2019.**
- **List of selected participants on August 9, 2019.**
- **Last date of receipt of application fee is August 5, 2019.**
- **Applicants are requested to visit the website for regular updates about the workshop.**

Website:

http://sites.ieee.org/kolkata-grss/2017/12/21/rsbdam/

Venue

Department of Computer Applications
6th Mile, Tadong, Gangtok
Sikkim University

Google Map Location:

https://goo.gl/maps/cMDM2dD3qho4CGKV8

Category Fees

Student (UG/PG): Rs. 800/-
Research Scholars: Rs. 1000/-
Faculty (or working person): Rs. 1500/-
Industry Rs. 2500/-

(IEEE members can avail additional 10% discount)

For further details contact:

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Call for Participations

Data science has become ubiquitous in modern society. A staggering amount of data is being generated and stored each day all over the world. This data is mostly related to social media, travel, communication, transactions, treatment, education, geoscience, remote sensing, climate models etc. The size and number of this "big" data have been increasing exponentially and will continue to grow at an accelerating rate for the foreseeable future. Effective analysis of these huge collections of apparently insignificant data can be very beneficial for companies, governments, medical organizations 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 this data. Traditional machine learning methods are not suitable for handling big data as they are not always scalable and also, they were not 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 tackle this situation. 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, research, web services, finance & business informatics, scientific computing, and many others.

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 remote sensing 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 resolution, 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 from other parts of the globe.

Objective

The aim of the workshop is to provide theoretical and practical insights on different aspects of Machine learning and 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 data. Besides, it will also provide an opportunity to share and exchange ideas among peers of the respective research community.

Topics of interest include:

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

List of Speakers (Tentative):

- **Ashish Ghosh, ISI, Kolkata**
- **Susmita Ghosh, Jadavpur University, Kolkata**
- **Prdipta K Nanda, Siksha O Anusandhan, Bhubaneswar**
- **Saurabh Das, ISI, Kolkata**

How to apply

Online Application Form available in the below mentioned link may be filled up on or before 5th August 2019.

Link: https://forms.gle/tottj2sfCwPoPgP9A