



CHAPNET-2019: International Workshop on Advanced Machine Learning Techniques for Climate Informatics

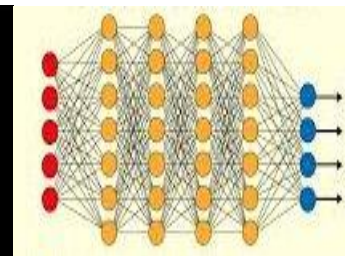
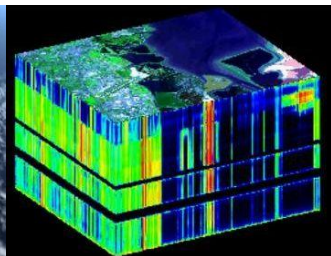
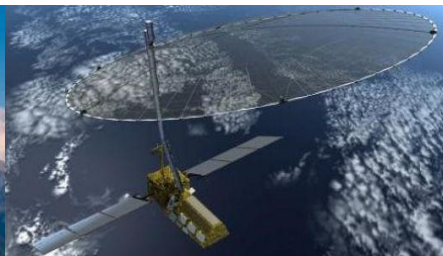
Geoscience and Remote Sensing Society, Kolkata Chapter

Venue:

Center for Soft Computing Research, Indian Statistical Institute

November 4 - 6, 2019

<https://www.isical.ac.in/~isigrss/CHAPNET-2019/>



Important Information

Number of seats is limited to 50.

- Last date of receipt of application is **October 12, 2019**.
- List of selected participants will be displayed in the website on **October 14, 2019**.
- Last date of receipt of application fee is **October 20, 2019**.
- Applicants are requested to visit the website for regular updates about the workshop.

Venue

Center for Soft Computing Research
1st Floor, R. A. Fisher Bhawan,
Indian Statistical Institute
203 B. T. Road
Kolkata 700 108, India.

Fees

Students (Masters, Ph.D., Post-doc)

Indian Participants Rs. 5000/-
Foreign Participants US\$ 500

Academics and Industry

Indian Participants Rs. 8000/-
Foreign Participants US\$ 800

(Registration fee includes workshop kit,
learning materials and working lunch)

For further details contact:

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CALL FOR PARTICIPATIONS

Over the last decades, the magnitude and complexity of climate and biogeochemical data from satellite sensors, stations, and climate models has substantially increased. The accuracy of the weather prediction greatly depends upon handling the data and analyzing the same. The complexity of the data increases day by day and therefore learning the whole data again and again is a horrendous task. Learning the new information from the recent data and thereafter embedding with the existing learning models is a crucial task. Integration and fusion of data from different forecasting models is necessary for accurate prediction. Advanced machine learning techniques must be developed to handle this high volume nonlinear and time varying data.

On the other hand, recent developments in machine learning have led to powerful new methods which promise to yield novel insights - if they properly cope with the particular challenges of such data. The new field of Climate Informatics could contribute to substantially enhance our understanding of the Earth system and confidence in future climate projections. This workshop will provide insights to new statistical and machine learning methodologies including (but not limited to) causal discovery, deep learning, probabilistic and Bayesian inference, computer vision, and advanced model-data integration applied to Earth system models and observations for climate science.

OBJECTIVE

The objective of this is to provide a platform for the researchers in India to interact with international experts and inculcate newer ideas to address various challenges in this field of climate informatics. This 3-days workshop also will facilitate the participants to get both theoretical and hands on experience on different aspects of the areas including Remote Sensing, Climate Informatics, Data Science and Machine Learning.

WHO SHOULD ATTEND

Target participants are Masters/PhD students and early career researchers from all over the world.

Partial financial support to some of the registered students may be provided.

TENTATIVE LIST of SPEAKERS

- Emmett Lentilucci, Rochester Institute of Technology, USA (on Skype)
- Mark Bentum, Eindhoven University of Technology, The Netherlands
- Keely Roth, The Climate Corporation, USA
- Yee Hui Lee, Nanyang Technological University, Singapore
- Avik Bhattacharya, IIT Mumbai, India
- P. K. Nanda, SoA University, Bhubaneswar, India
- Ashish Ghosh, ISI, Kolkata, India
- Bikash Ranjan Parida, CUJ, Ranchi, India

How to apply

Online application form can be accessed from the website. Short listed candidate will be notified via email as well as the list will be displayed on the website.