

Three Days Indo-US Online Workshop on
Recent Advances in AI & ML for Climate Sciences

Organized by
Technology Innovation Hub (TIH), Indian Statistical Institute (ISI), Kolkata
in association with
IEEE GRSS Kolkata Chapter
November 13-15, 2021

There have been a substantial growth of the volume, variety, and velocity of climate data over the last few decades due to improved remote sensing technologies, boosted computational resources for large-scale simulations of the Earth system models, growing network of climate monitoring etc. On the other hand, recent developments of artificial intelligence (AI) and machine learning (ML) have revolutionized various aspects of the society including e-commerce, logistics, healthcare, surveillance, entertainment. The growing availability of earth observation data, increased computational power, and the recent advances in machine learning offer exciting new openings for expanding and improving our knowledge on climate studies. Further, climate science is governed by physical laws & principles and involves relationships among latent variables; making it a more difficult problem as compared to standard data science issues. Hence, necessary modifications and adaptation of AI & ML techniques and tools are required to successfully exploit them for climate studies. The present workshop aims to bring together the two domains and gain new insights about the AI & ML techniques for further advancement of climate sciences.

Tentative Resource Persons:

Speakers:

Prof. Ashish Ghosh, *ISI, Kolkata*
Prof. Auroop Ganguly, *NE University, USA*
Dr. Rajib Chattopadhyay, *IMD, Pune*
Prof. Subimal Ghosh, *IIT-Bombay*
Dr. Nachiketa Acharya, *Penn State University, USA*
Prof. Susmita Ghosh, *Jadavpur University, Kolkata*

Hands-on Experts:

Dr. Manmeet Singh, *UT Austin, USA*
Dr. Prasenjit Acharya, *Vidyasagar University, WB*

Registration Details:

Registration Link: <https://forms.gle/EsKw5sGjzkUGiMmP9>

Deadline for Registration: 10th November, 2021

Registration Fees:

Post Graduate Students-INR 500/USD 15 [INR 400/USD 12 for IEEE GRSS members]
Research Scholars/ Post-docs- INR 800/USD 24 [INR 700/USD 21 for IEEE GRSS members]
Faculties/ Scientists-INR 1500/USD 45 [INR 1300/USD 39 for IEEE GRSS members]
Non-academics/Industry persons-INR 2000/ USD 60 [INR 1800/USD 54 for IEEE GRSS members]

Certificates will be provided only to the registered participants with minimum 80% attendance.

Contact:

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Highlights of the workshop:

- **Introduction to State-of-the-art AI & ML algorithms**
- **AI & ML applications in Climate Sciences**
- **Hands-on-sessions**

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