

About the Conference

Data predictive analytics and numerical simulations are two cutting-edge methodologies that play a pivotal role in modern decision-making and problem-solving across various industries.

The National Conference on Data Predictive analytics and Numerical Simulations aims to bring together leading academic scientists, researchers, and research scholars to exchange and share their experience and ideas in the field. Also, it aims to serve as a platform for exploring new trends in data predictive analysis and foster collaborations and networking among the researchers working in the area.

About IIT(ISM) Dhanbad

The Indian School of Mines was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to Mining activities in the country with disciplines of Mining and Applied Geology. In 1967 it was granted the status of a deemed to be university under section 3 of UGC Act, 1956. The long run of the Indian School of Mines (ISM) came to an end, for it had now been awarded the tag of an Indian Institute of Technology (IIT) on 6th September 2016

Invited Speakers

- ❖ Professor B .V. Rathish Kumar, Department of Mathematics & Statistics, IIT Kanpur
- ❖ Professor T. Gudi, Department of Mathematics, IISc Bangalore
- ❖ Professor S V Rao, Department of CSE, IIT Guwahati
- ❖ Professor G.P. Raja Sekhar, Department of Mathematics, IIT Kharagpur
- ❖ Professor D. Mishra, Department of Avionics, IIST, Thiruvananthapuram
- ❖ Professor P.V.S.N. Murthy, Department of Mathematics, IIT Kharagpur
- ❖ Professor S. Tiwari, Department of Mechanical Engineering, IIT Madras
- ❖ Dr Amit Kesarkar, National Atmospheric Research Laboratory, Gadanki (ISRO), Tirupathi
- ❖ Professor P.G. Siddheshwar, Department of Mathematics, Bangalore University, Bangalore
- ❖ Dr Bipin Kumar, Indian Institute of Tropical Meteorology, Pune



CENTENARY CELEBRATION

NATIONAL CONFERENCE
on

**DATA PREDICTIVE ANALYTICS AND
NUMERICAL SIMULATIONS**

(HYBRID MODE)

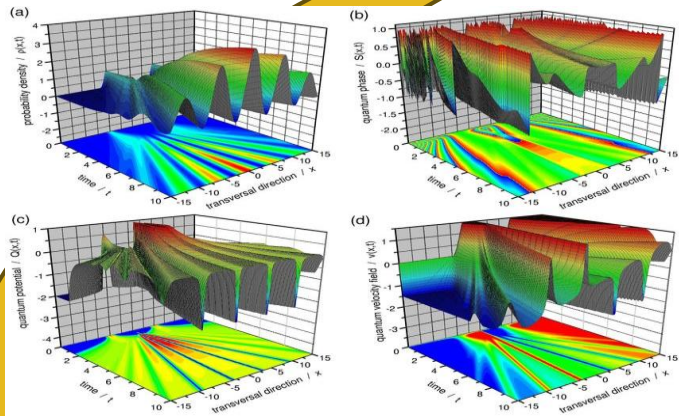
April 23-25 2025



Organized by

Department of Mathematics and
Computing

IIT (ISM) Dhanbad



Conference Themes

- ❖ Data driven Computation
- ❖ AI/ML application in real life systems
- ❖ Numerical Computation
- ❖ IOT of real life data driven systems
- ❖ Weather forecasting for scientific applications
- ❖ Data prediction and analysis
- ❖ New techniques and tools in numerical simulations.
- ❖ Advances in neural networks, deep learning, and reinforcement learning.
- ❖ Data governance, privacy, and security in predictive analytics.
- ❖ AI in real-time and adaptive simulations.
- ❖ Case studies in health care, finance, marketing and manufacturing

About the Department

The Department provides an outstanding research environment completed by excellent teaching for its students to flourish in different areas of academics and industry as well. The department offers academic programs leading to the award of M.Sc. (Mathematics and Computing), BTech (Mathematics and Computing) and Ph.D. degrees. Currently, the Department caters to institute core courses along with courses in Pure Mathematics, Applied Mathematics, Statistics, and Computer Science courses having a manpower of 32 faculty members having diversified research areas and guiding more than 100 PhD scholars leading to the doctoral program. Also, the department is equipped with network protocols (NFS, HTTP, SNMP, etc.) with client operating system support with Windows and Linux. Also, the department has full-fledged computer labs having MATLAB, Mathematics and other useful softwares.

Address for correspondence

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Prof. Kartikay Gupta, Organizing secretary

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Organizing Committee



Chief Patron:
Prof Prem Vrat
Chairperson, BOG,
IIT (ISM) Dhanbad



Patron:
Prof Sukumar Mishra
Director,
IIT (ISM) Dhanbad



Chairperson:
Prof S P Tiwari
HOD, M&C
IIT (ISM) Dhanbad



Convener:
Prof P S Rao
M&C
IIT (ISM) Dhanbad



Co Convener:
Prof Shuvashree Mondal
M&C
IIT (ISM) Dhanbad



Organizing Secretary:
Prof Kartikay Gupta
M&C
IIT (ISM) Dhanbad

Call for paper

Original and novel contributions aligning with conference themes are invited from academicians, researchers and scientists in the form of full papers. Full paper must be submitted in the AMS format. Selected papers will be published as book chapters in conference proceedings by Springer. Additional details for possibilities of publication in Scopus indexed AIMS journal(s) will be updated. Full papers must be submitted to (psrao@iitism.ac.in) by 16th April 2025.



Abstract Submission

The abstract should be submitted by **29th March 2025** to the mail psrao@iitism.ac.in. Acceptance notifications for submitted abstracts will be communicated via email on **1st April 2025**. A one page abstract should be submitted in the AMS format.

Important dates

Last date of abstract submission	29/03/2025
Notification of acceptance	01/04/2025
Last date for payment and registration	07/04/2025
Last date for full paper submission	16/04/2025
Date of Conference	23/04/2025-25/04/2025

Interested candidates can register on the given link:

<https://forms.gle/4cF9jttgSLLBhfDHA>

Accommodation Details

Faculty & Industry delegates	Executive Development Center/ Senior Academic Hostel
Student delegates	Students Hostel

Payment and Registration details

Participants	Payment before 10/02/2025	Payment after 10/02/2025
Research Scholars	Rs 3000/-	Rs 4000/-
Faculty	Rs 4000/-	Rs 5000/-
Industry Personnel	Rs 5000/-	Rs 6000/-

The Registration fee has to be paid through NEFT in the given account on or before **07/04/2025**

Name: **Registrar IIT(ISM) Dhanbad**

A/C: **0986101025096**

IFSC: **CNRB0000986**

Bank Name: **CANARA BANK**

Branch: **SARAIHELIA, DHANBAD**

**** Conference fee includes registration kit, accommodation and meals. TA may be provided to participants based on availability of funds.**

REGISTRATION FORM

National Conference on Data Predictive Analytics and Numerical Simulations

Organized by the Department of Mathematics and
Computing, IIT(ISM) Dhanbad

April 23-25 2025

- **Name:**
(In Block letters)
 - **Designation:**
 - **Institution / Organization:**
 - **Address for Communication:**

 - **Mobile No:**
 - **E-mail:**
 - **Gender: Male / Female / Other**
- **Accommodation: Yes / No.**
 - **Local Participant: Yes / No.**
 - **Payment Details: Bank Name:**
NEFT/ Transaction Reference No:
Date of transfer:
Amount:
Payment receipt attached: Yes / No

DECLARATION

The information provided by me is true to the best of my knowledge. I agree to abide by the rules and regulations governing the organizing committee. If selected, I shall attend the program for the entire duration.

Place:

Signature: