Where: Online (link on next page)
Date: July 07, 2023
Time: 09:00–16:40 IST

Applied mathematics symposium: artificial intelligence meets fluid dynamics

Plenary talk by
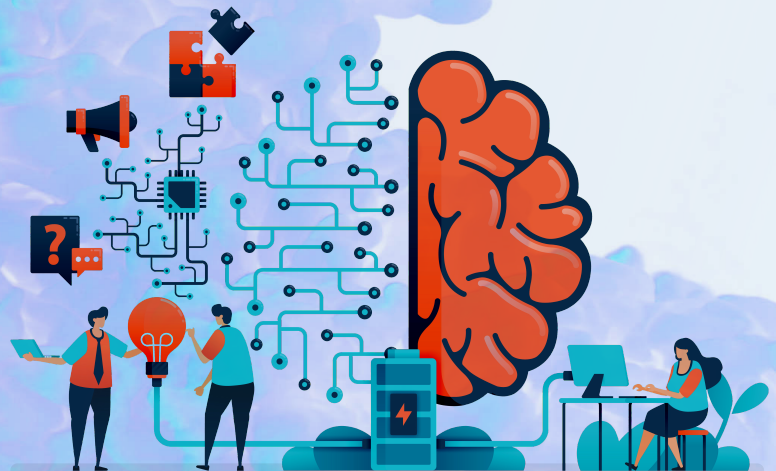Professor Nathan Kutz (University of Washington)

Meeting website: https://www.iitg.ac.in/satyajitp/ams–aifd.php

Organisers:

Sanghasri Mukhopadhyay
VIT Vellore

Satyajit Pramanik
IIT Guwahati

Vikas S. Krishnamurthy
IIT Hyderabad

❦   **Program**   ❦

09:00–09:10   Welcome

09:10–10:10   Plenary talk by Professor Nathan Kutz (University of Washington)
"The future of governing equations"

10:10–10:30   Break

10:30–11:15   Professor Koji Fukagata (Keio University)

"Applications of convolutional neural networks to fluid flows: toward machine-learning-assisted flow control"

11:15–12:00   Dr. Chirodeep Bakli (IIT Kharagpur)

"Applications of Machine Learning to Link Interfaces to Bulk in Confined Fluids"

12:00–12:45   Dr. Tapan Kumar Hota (SRM University–AP)

"Some Recent Development of Dynamic Modes in Interfacial Instability"

12:45–15:00   Break

15:00–15:45   Dr. Francesco Romano (Lille Fluid Mechanics Laboratory)

"Machine learning for optimal flow control in an axial compressor"

15:45–16:30   Dr. Aniruddha Bora (Brown University)

"Learning bias corrections for climate models using neural operator framework"

16:30–16:40   Vote of thanks

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