



A 3-days Hybrid Workshop on AI-Enabled Next-Generation UAV Communications

Organized by Indian Institute of Technology (Indian School of Mines) Dhanbad
Department of Mathematics & Computing | 3–5 October 2026



Intelligent Connections
for a Higher Tomorrow

UAV | AI | CONNECTIVITY | REAL IMPACT



AI/ML | UAV NETWORKING | MAC LAYER DEVELOPMENT | EDGE INTELLIGENCE | RESOURCE ALLOCATION

SUPPORTED BY

TiHAN, IIT Hyderabad



ORGANIZING TEAM

Convenor

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WHO CAN APPLY

Research scholars, UG/PG students, faculty members, scientists, industry professionals, and practitioners working in wireless communication and networking, AI/ML, embedded systems and UAV technologies.

REGISTRATION FEE

Registration is **free** for everyone. Attendance will be taken, and participants will receive a digital certificate for attending the workshop.

ABOUT THE ORGANIZATION

IIT (ISM) Dhanbad is an Institute of national importance with a long tradition of excellence in teaching, research and innovation. Established in 1926, the Institute offers undergraduate, postgraduate and doctoral programmes across science, engineering, management and interdisciplinary areas. In 2026, IIT (ISM) Dhanbad marks its centenary year.

ABOUT THE DEPARTMENT OF MATHEMATICS & COMPUTING

The Department of Mathematics and Computing contributes to teaching and research in Mathematics, Statistics, Computer Science and Data Science. It offers programmes including B.Tech./Integrated M.Tech. in Mathematics & Computing, M.Sc. in Mathematics & Computing, M.Tech. in Data Analytics and doctoral research programmes.

HOW TO APPLY

Online Registration:
<https://forms.gle/7DsZHXZ98Nd2jBKd8>
Registration deadline: **25 September 2026**
Selection Announcement: **1 October 2026**

Scan to register >



HOW TO REACH IIT (ISM) DHANBAD

By Train: Dhanbad Junction (~2.5 km).
By Air: Kazi Nazrul Islam Airport, Durgapur (~95 km); Netaji Subhas Chandra Bose International Airport, Kolkata (~270 km).

ABOUT THE WORKSHOP

The workshop focuses on next-generation UAV communication systems and the growing role of AI/ML in intelligent wireless networking. It will cover UAV networking architectures, MAC-layer protocol development, adaptive resource allocation, edge/cloud intelligence and practical system-development challenges.

KEY THEMES

- AI/ML for wireless and aerial communication systems
- UAV communications, networking and swarm connectivity
- MAC layer protocol design and implementation
- Edge/cloud intelligence and task offloading for UAV systems
- Simulation, prototyping and experimental evaluation

INVITED SPEAKERS

- Prof. Pradip Kumar Das – IIT Guwahati, India
- Prof. Sandip Chakrabarty – IIT Kharagpur, India
- Dr. Moumita Patra – IIT Guwahati, India
- Dr. Ashish Tiwari – Dolby Laboratories
- Dr. Arijit Roy – IIT Patna, India
- Dr. Abhijit Das – IIT Hyderabad, India
- Dr. Syam Narayanan – TiHAN, IIT Hyderabad, India
- Dr. Pranay Saha – IIT (ISM) Dhanbad, India
- Dr. Nikhil Tripathi – IIT (ISM) Dhanbad, India
- Dr. Ayan Mondal – IIT Indore, India
- Many more

STUDENT CO-ORDINATORS / ASSISTANCE

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Join us to explore the future of intelligent UAV communications

Registration: <https://forms.gle/7DsZHXZ98Nd2jBKd8> | Contact: uavtechworkshop@gmail.com | Venue: IIT (ISM) Dhanbad | Website: <https://uav-workshop.github.io/>

TOWARDS A SMARTER,
SAFER, MORE CONNECTED WORLD