

NIT Rourkela

NIT Rourkela is a premier centre for teaching, research and industrial consultancy in the country. At present, the institute has 21 departments and the campus is situated in lush green zone with beautiful hills and ponds. The institute offers B.Tech, M.Tech and Ph.D. programs in all the disciplines. The city of Rourkela has a German sponsored public sector undertaken steel plant (SAIL) along with many supporting small scale industries around the city.

Mechanical Engineering

The department trains the students in Mechanical Science as well as those under interdisciplinary programs. The broad areas of interest in the Department include Mechanics of Solids and Stress Analysis, Dynamics and vibrations, Manufacturing Science & Industrial Engineering, Energy Conversion and Power Systems, Heat Transfer and Fluid Mechanics, Engineering Design and cryogenics. Department offers four streams of post graduate programs: (i) Machine Design and Analysis (ii) Production Engineering (iii) Thermal Engineering and (iv) Industrial Cryogenics. The department has good number of laboratories with latest facilities.

Objective of the Conference

With growing usage of artificial Intelligence in various sectors, different applications of robotics and unmanned systems are seen over the last one decade. AI tools are being smoothly utilized in mobile, industrial and space robots along with unmanned aerial and underwater systems for effective control and guidance. This conference provides a platform for the outstanding professionals working on these areas to present their research outcomes. There will be keynote/invited lectures in the area along with several technical sessions.

The Conference Topics/Themes

Interested researchers, academicians and scholars are requested to send a one page abstract on their relevant contributions in the following areas, but not limited to:

- Robotics and intelligent systems
- Industrial automation and IoT
- AI/ML for manufacture and control
- Guidance of unmanned aerial systems with AI tools.
- Aerodynamic optimization, high-altitude, and long-endurance drone designs.
- Advanced power systems, sensor technologies, and real-time communication modules.
- Machine learning for navigation, object recognition, and swarm coordination.
- Integration of drones for infrastructure assessment and environmental studies.
- Development of precision agriculture tools for monitoring and resource management.
- UAV for condition monitoring and measurements

Submit your paper to the google form link:

<https://forms.gle/M7dssrvB9XtsrEkN6>

Authors can submit extended abstract of relevant works and register for presentation in the event when their full papers are not ready. All submitted full papers undergo review and published in indexed proceeding after the event.

Contact Details

Convenor

[Prof. J. Srinivas](#)

Department of Mechanical Engineering
National Institute of Technology, Rourkela
Phone: 0661 2462503

Co-conveners

Prof.P.S.Balaji, Mechanical Engineering

Prof.Mohit Lal, Industrial design

International Conference On “Advances in Robotics and Unmanned Aerial Systems using AI technology” (Hybrid mode)



on

28th Feb -1st Mar 2026

Organized by



**Department of Mechanical Engineering
National Institute of Technology
Rourkela-769 008, India
<http://www.nitrkl.ac.in>**

International Conference
On
“Advances in Robotics and
Unmanned Aerial System using
AI Technology”

(28th Feb -1st Mar 2026)

Registration form

1. **Name of presenting author:**.....
2. **Designation:**.....
3. **Department:**.....
4. **Institution/Organization:**.....
5. **Address:**.....
.....
.....
6. **E-mail Address:**.....
7. **Mobile/Tel Ph.:**
8. **WhatsApp No:**.....
9. **Areas of Research interests:**.....
.....
.....
10. **Accommodation wanted:** Yes/No
11. **Bank transaction ID, Amount and date:**

Signature

Patron

Prof. K.Umamaheshwar Rao

Director, NIT Rourkela

Chairperson

Prof.S.K.Patel

Department of Mechanical Engineering

Local Organizing committee

Prof. J.Srinivas

(convenor)

Department of Mechanical Engineering

Prof. P.S.Balaji

(Secretary)

Department of Mechanical Engineering

Prof. Mohit Lal

(Treasurer)

Department of Industrial Design

Advisory committee

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Prof.Prabhu, LBRCE, Vijayawada

Registration Fee

Student/Research Scholars Rs.3000

Faculty from academics Rs.5000

R&D/Industry Delegates Rs.6000

Duly signed registration form should be sent well before deadline to following e-mail: aeromechanicslabnitrkl@gmail.com, with details of presenting author. Registration fee can be paid in online transfer mode (Bank Account No. 36734418111, name: ‘Conference NIT Rourkela’ payable at NIT Rourkela SBI (IFSC code: SBIN0002109) with your transaction details in the application clearly mentioned. Fee receipts and author certificates will be provided.

Accommodation

Accommodation will be provided on pre-request in the institute guest house. It is purely on first come basis. Other than institute guest house, many hotels are available at Rourkela. Location of institute and transport facilities can be found in website www.nitrkl.ac.in.

Important dates

Full paper submission (open) : 10th Feb’ 26

Registration deadline : 10th Feb’26

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