IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 3900+ network institutes. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Departments
- Forest Resource Professionals
- State Forest Departments/Forest Training Academies
- Research Institutes
- Geospatial Industries
- NGOs

Feedback Mechanism

IIRS takes continuous feedback from participating institutions to improve the quality of future courses.

Feedback session during IIRS User Academia Meet (IAM)-2025

Awards

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).

About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science (*http://elearning.iirs.gov.in*).

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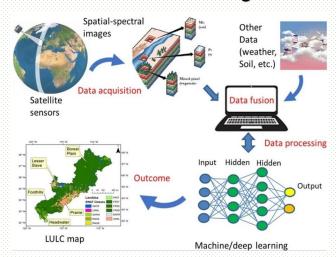**IIRS Outreach Programme**
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1048th IIRS Outreach Programme

One Day Online Workshop on
Advanced Image Analysis for Geospatial Professionals

August 22, 2025

Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun

www.iirs.gov.in

About the Workshop

In the last few years, the technologies related to imaging, video processing, computer graphics, 3D modelling and multimedia has witnessed a rapid growth. The continuous development of these technologies leads researchers to propose new methodologies and applications in in the field of image analysis. Digital image processing has various applications ranging from remote sensing and entertainment to medical applications. Besides being just two- or three-dimensional arrays containing numbers (pixel intensity values), the images have a number of very interesting properties. These properties are a key to developing efficient and accurate algorithms for a variety of applications. This workshop will systematically study several such techniques motivated by these interesting properties of remote sensing images. We invite you to attend this workshop on "Advanced Image Analysis" scheduled on 22 August, 2025.

Target Participants

Participants interested in attending the workshop can be Professionals from Central / State Govt. / Private Organizations / NGOs, researchers and students (under graduation and above) aligned to research in Remote Sensing and Image Analysis.

Expected Outcome

The proposed workshop explores major areas of digital image processing at an advanced level, with primary emphasis on remote sensing applications. Drawing upon the knowledge of recognized experts with years of practical experience, the workshop will expose the participants to a broad range of modern, state-of-the-art techniques in image processing methods.

Topics of the Workshop

This online workshop will cover the following topics:

- Fundamentals of Geoapstial Image Analysis
- Feature Extraction and Classification Techniques
- AI/ML in Image Analysis
- Advanced Tools and Platforms for Image Analysis
- Accuracy Assesement and Validation

Workshop Fee

There is no fee for attending this workshop.

Workshop Registration

• Workshop updates and other details will be available on URL-

http://www.iirs.gov.in/Edusat-News/

- **Registered through Nodal centres.** The participant's registration must be approved by the coordinator of nodal centers.

• The participants can register and see their application status through URL- https://elearning.iirs.gov.in/edusatregistration/ . In case, the application is pending for approval then participants are advised to contact the coordinator of respective nodal center.

Registered as "Individual registrations"-

• The participants with individual registration will be automatically approved. All the registered participants will get their login credentials for ISRO Learning Management System (LMS)- https://isrolms.iirs.gov.in .

Workshop Funding & Technical Support

The workshop is sponsored by Indian Space Research Organisation, Department of Space, Government of India.

Programme Reception

The workshop can be attended through e-class platform of IIRS-ISRO using internet connectivity. No specific hardware/software required. However, it is recommended good internet connectivity at user end. To run the programme in class room, following hardware will be required:

- Desktop computer with web camera microphone and output speakers or laptop with microphone camera and output speaker.
- Large display screen/projector/TV.

Important links

To participate in this programme the interested organisations/universities/departments/institutes have to identify coordinator at their end. The identified coordinator will register online his/her institute as nodal centre in IIRS website (https://elearning.iirs.gov.in/edusatregistration/coordinator)

Award of Certificate

Registered through Nodal centres : Based on the attendance, participants will be awarded a "Workshop Participation Certificate."

Individual Registration: A certificate for "Workshop Participation" will be awarded to everyone who devotes at least 50% of the total session's hours of the workshop. The certificate will be available for download on the ISRO LMS platform.

There are a limited number of seats.
Registration will be done on a first-come, first-served basis.