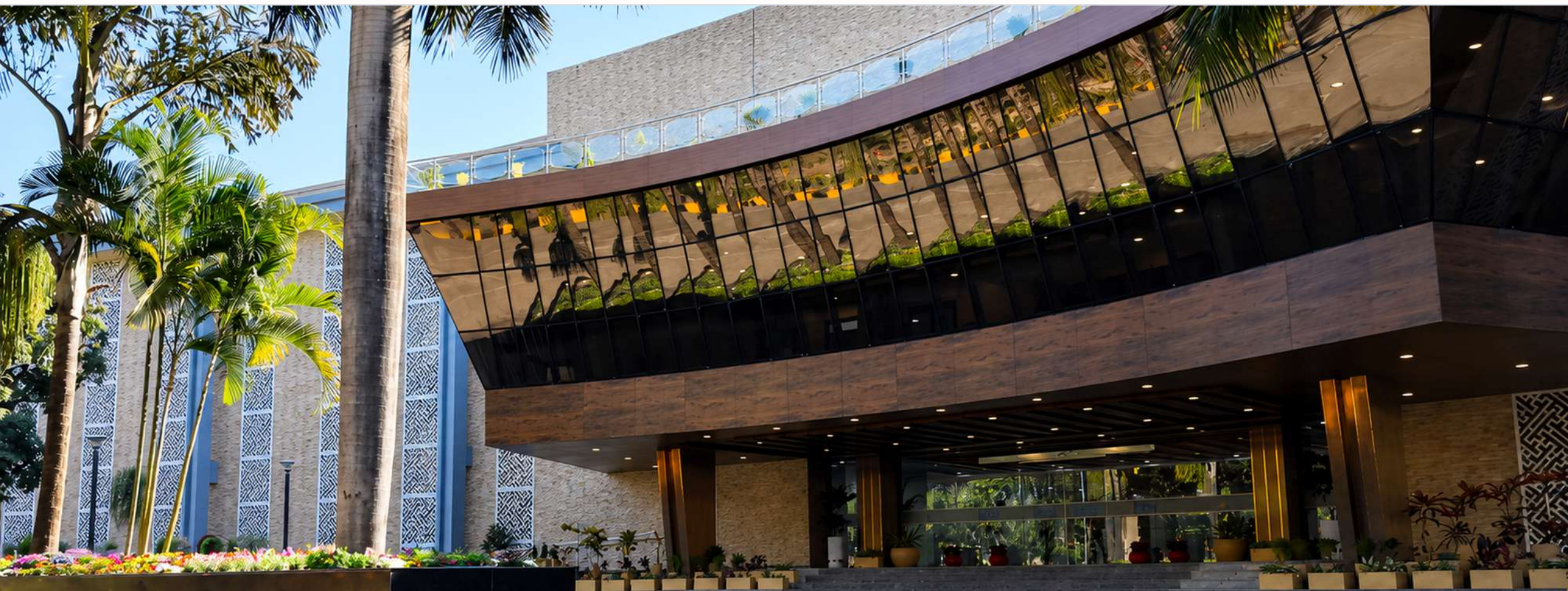




SAVE THE DATE
INDIAN / FRENCH WINTER SCHOOL ON

Artificial Intelligence and Remote Sensing for Mountain Cryosphere

11–23 January 2027 Indian Institute of Remote Sensing (IIRS), ISRO
— Dehradun, Uttarakhand, India



WEEK 1

Mountain Hazard & Cryosphere Remote Sensing

- DAY 1** Multispectral / hyperspectral imagery for snow, glacier & high-altitude lake monitoring
- DAY 2** Thermal imagery for cryosphere & permafrost studies
- DAY 3** LiDAR & photogrammetry for topography & elevation change
- DAY 4** SAR / PolSAR for snow cover, glacier lake & avalanche monitoring
- DAY 5** SAR / InSAR for glacier & permafrost displacement, snow depth & SWE
- DAY 6** Field Trip

WEEK 2

Advances in AI for Earth Observation

- DAY 1** AI for data preparation (co-registration, SAR despeckling)
- DAY 2** Deep learning for land use & land cover classification
- DAY 3** ML for landform motion detection by InSAR
- DAY 4** Optimisation & AI for source separation & multi-modal fusion
- DAY 5** Hybrid AI models (PINNs, GNNs, Physics-Informed) & mini-project presentations

WHO SHOULD ATTEND

Master's / PhD students, early-career researchers, engineers and professionals working in remote sensing, geoinformatics, glaciology, hydrology, geology, environmental sciences and AI/ML.

APPLICATION & REGISTRATION

Registration Deadline: 31 October 2026

Apply at admissions.iirs.gov.in

Queries: airs4mc@outlook.com

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