



**4th International Conference on Machine Intelligence and Signal
Processing (MISP2022), March 12-14, 2022**
(<https://misp2022.nitr.ac.in/>)

Organized by

**Department of Computer Science and Engineering,
National Institute of Technology Raipur, India**

1. Title of the Special Session:

“Machine learning based Satellite Image Processing and Remote Sensing”

2. Details of Session Chair and Co-Chair:

Name (Session Chair): Dr. Pankaj Pratap Singh **Designation:** Assistant Professor
Affiliation Institute: Central Institute of Technology Kokrajhar, Assam, India
Email Id: pankajp.singh@cit.ac.in **Contact Number:** 9568265578

Name (Session Co-Chair): Dr. Abhishek Bhatt **Designation:** Associate Professor
Affiliation Institute: College of Engineering Pune, Pune, Maharashtra, India
Email Id: bhatta.extc@coep.ac.in **Contact Number:** 9045299954

Name (Session Co-Chair): Dr. Pranav Kumar Singh **Designation:** Assistant Professor
Affiliation Institute: Central Institute of Technology Kokrajhar, Assam, India
Email Id: p.singh@cit.ac.in **Contact Number:** 7896792511

3. Aims & Scope (Theme of Session):

In the current era, satellite images are utilizing for classification and extraction of objects. Land use and land cover classification are also an important area for analysis of remote sensing images. In the progressive development of high-resolution satellite images (HRSI), object-based classification is generating interest to extract the information of impervious surfaces. Some image fusion approaches are also helpful to provide insights information from the satellite images. In the advancement of Machine learning and deep learning approaches are inducing the impactful results from HRSI. In addition of SAR and LiDAR data is also for 3D structure information which is indeed in the current scenario for Digital elevation model (DEM) and Digital surface model (DSM). These different kind of remote sensing modalities are keeping interest to extract the information.

The key objective of this special session is to provide a platform for researchers to review and analysis the recent developments in this emerging field of remote sensing and satellite image processing. This special session is proposed to submit research papers which are offering their research area contributions in this emerging field. It can be received from researchers, academicians, and industrial experts.

4. Subtopics: Topics include (but are not limited to) following:

- Machine learning based Satellite image segmentation and classification
- Information Extraction from Remote Sensing
- Pixel and sub-pixel based image classification
- Change detection in remote sensing images
- Data fusion based approach in remote sensing
- Object based Image classification

5. Technical Programme Committee(s) for special session: (TPC should contain at least 3-5 active researchers of specialized area)

- (1) Prof. R.D. Garg, IIT Roorkee, Uttarakhand, India
- (2) Prof. S.K.Ghosh, IIT Roorkee, Uttarakhand, India
- (3) Dr. Vivek Chaturvedi, IIT Palakkad, Kerala, India
- (4) Dr. Rupesh Kumar Dewang, MNNIT Allahabad, U.P., India
- (5) Prof. H. S. Bhadauriya, Govind Ballabh Pant Institute of Engineering & Technology (GBPIET), Pauri Garhwal, Uttarakhand, India

Contacts: All inquiries should be directed to the attention of Session Chair/Co-Chair:

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Submission Guidelines for Authors

- ❖ Prospective authors are invited to submit original research work that falls within the scope of the session. All submissions will be thoroughly peer-reviewed by experts based on originality, significance, and clarity.
- ❖ Only papers presenting novel research results or successful innovative applications will be considered for publication in the conference proceedings.
- ❖ Authors are requested to submit their Manuscripts through the Easy Chair System. <https://easychair.org/my/conference?conf=misp2022#>
- ❖ The paper must be in Springer format and of size of 12-15 pages. [Springer Author's Guidelines](#)
- ❖ Please visit conference website for paper format and other details: <https://misp2022.nitr.ac.in/#>
- ❖ All accepted and registered papers under MISP 2022 will be submitted for possible publication in Scopus Indexed Springer Book Series (approval pending).

Springer Policy on Plagiarism

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Special Session Timeline

Special Session Submission Deadline: **15th January 2022**

Acceptance Notification (1st round): 30th January 2022

Acceptance Notification (2nd round): February 15th, 2022

Camera Ready Submission: 20th February 2022

Registration Due: 25th February 2022

Conference Date: 12th March – 14th March 2022.