



06-08 November 2023 - Jodhpur

Day 3: Technical Session 5-A | 08 November 2023, 11:30 – 13:00 hrs
Venue: Hall-A (2nd Floor, RC-W Main Building)

Disaster Resilience and Emergency Management – II		
Chair: Co-chair: Rapporteur:		
SI No.	Title	Authors
1	Flood prone area mapping using Analytic Hierarchy Process (AHP) and Geospatial techniques in the part of Keleghai River Basin	Jatisankar Bandyopadhyay ¹ , Suman Das ¹ , Nirupam Acharyya ¹ , Saroj Maity ² , Riju Singha Modak ¹ and Lal Mohammad ¹ ¹ Vidyasagar University ² Space Application Centre
2	Comparative Assessment of Burnt Area Mapping using UNet Convolutional Neural Network, Random Forest, and Support Vector Machine.	Praveen Mutyala National Remote Sensing Centre, Hyderabad
3	Rainfall Induced Landslide Detection Using Persistent Scatter Interferometry	Dharmendra Singh, Annu Kumari, Sultan Singh Haryana Space Applications Centre
4	Geospatial technologies for building disaster resilience and emergency management	Bhagwat Prakash Dayma, Ashwani Arya Govt. College, Jodhpur
5	Automated Mapping of Rice Stubble Burnt Area Progression	Parichay S. Raju, Abhishek Chakraborty, Bhavana Sahay, V. M. Chowdary National Remote Sensing Centre, Hyderabad
6	Role of Satellites in Disaster Resilience	A.V. Ramani, N. Rama Devi, K. Sudhakar, V. Ramakrishna Sastry, N. Aparna National Remote Sensing Centre, Hyderabad
7	Green Solution for A Fresh Landslide in East Sikkim Corresponding to the Dominating Causative Factors, Identified Through Analytical Hierarchy Process	Joyita Golder, Gupinath Bhandari Jadavpur University, Kolkata
8	Assessment of Flood Risk using Analytical Hierarchy Process and Machine Learning Techniques: A Case Study of Guwahati, Assam	Ankita Tamuli, Ransai Basumatary, Sujit Deka Bodoland University

9	Storm Water Inundation Potentiality Mapping of Kolkata Using Advanced Machine Learning Techniques	Mampi Pal ¹ , Sasanka Ghosh ² ¹ National Atlas and Thematic Mapping Organisation ² Kazi Nazrul University
10	Forest Fire Risk Assessment Using Machine Learning Approach: A Case Study of Shimla Forest Division, Himachal Pradesh (India)	Bhawna Thakur, Shruti Kanga Central University of Punjab, Bathinda