



## CALL FOR PAPERS

### Special Session on “Application of Artificial Intelligence and Geospatial Analytics for Disaster Risk Reduction”

#### Session Chair(s):

Mr. Navneet Ravikar, Managing Director & Group Chairman, LeadsConnect Services Pvt. Ltd., Noida, Uttar Pradesh

Dr. Alok Bhushan Mukherjee, Chief Remote Sensing-GIS Analyst, R&D Head-NE India Operations, Leads Research Lab (LeadsConnect Services Pvt. Ltd), Noida, Uttar Pradesh

Dr (Prof.) Akhouri Pramod Krishna, Professor & Head, Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi -Jharkhand

Dr. Nirmal Kumar, Sr. Scientist, Remote Sensing Application Division, ICAR-NBSS &LUP, Nagpur, Maharashtra

#### Theme of Session:

Climate change disasters such as flood, landslides, flash floods, earthquake, cloud bursts and cyclone/tornado are a threat to human civilization. Loss in the context of social and physical risks due to these disasters have been unprecedented in recent times. This is now an acceptable fact in the scientific fraternity that climate change disasters may increase in future. Hence, there is now a need of developing frameworks and systems which may help in reducing the impact of disasters and aid in disaster management. Application of advance technologies and frameworks such as space technologies, that is, satellite remote sensing, geographic information system and global positioning system, WebGIS and artificial intelligence frameworks may be significant in developing robust frameworks for natural hazard analytics and disaster management.

Advance technologies may be instrumental in developing identifying vulnerable regions and subsequently, can be used to quantify the associated risks. In addition, predictive analytics may be performed in the context of climate change disasters. This may help in adopting timely and stringent measures to contain the impact of disasters. Hence, the aim of this session is to explore the possibilities of adopting advance technologies to develop robust frameworks and platforms for effective disaster management.



### Topics of Interest:

We invite original (un-published) research contributions based on the above-mentioned theme including following topics **but not limited to**:

- i. Artificial Intelligence for Disaster Management
- ii. Multi-Hazard Intelligent System
- iii. Hazard Analytics in Hyperlocal Scenario
- iv. Satellite Remote Sensing Analytics for Disaster Management
- v. Geospatial Analytics for Evacuation
- vi. WebGIS for Disaster Management
- vii. Landslide Vulnerability
- viii. Flood Vulnerability
- ix. Flash Floods
- x. Predictive Analytics & Natural Disasters
- xi. SAAS for Hazard Analytics / Disaster Management
- xii. MLAAS for Hazard Analytics / Disaster Management
- xiii. Crop Risk Management & Natural Disasters
- xiv. Land Degradation & Natural Disasters
- xv. Weather Analytics & Disaster Management

### Paper Submission Process:

Please submit your paper (in word/pdf format) at

email: [alok.mukherjee@leadsconnect.in](mailto:alok.mukherjee@leadsconnect.in)

with 'Name of Special Session: **Application of Artificial Intelligence and Geospatial Analytics for Disaster Risk Reduction**' mentioned in the subject line.

### Program Committee:

- i. Dr. (Prof.) Bijay Singh Mipun, Professor, School of Human & Environmental Sciences, North-Eastern Hill University, Shillong -Meghalaya
- ii. Dr. (Asst. Prof.) Virendra Singh Rathore, Assistant Professor, Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi-Jharkhand
- iii. Dr. Trideba Padhi, Post-Doctoral Fellow, Department of Electrical & Electronic Engineering, Faculty of Engineering, University of Stellenbosch, South Africa
- iv. Dr. Fayma Mushtaq, Geospatial Analyst, Department of Ecology, Environment and Remote Sensing, Government of Jammu & Kashmir
- v. Dr. (Asst. Prof.) Anamika Shalini Tirkey, Assistant Professor, Department of Geo-Informatics, Central University of Jharkhand, Ranchi- Jharkhand
- vi. Mr. Nitesh Awasthi, Chief Remote Sensing-GIS Analyst, Leads Research Lab (LeadsConnect Services Pvt. Ltd.)



## 9th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2021) June 25 - 26, 2021

National Institute of Technology Mizoram, India

- vii. Mr. (Asst. Prof.) Ankur Priyadarshi, Assistant Professor, Department of Computer Science & Information Technology, C.V. Raman Global University, Odisha

**For any further queries related to this special session, please contact the session chairs at:**  
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