Disaster Risk Reduction session at FBAS 2022

Topic of the session:

Harness technologies, data and knowledge for risk reduction

Date and time:

14:00-15:30 (Beijing Time, UTC+8), September 8, 2022

Background and Rationale:

2022 International Forum on Big Data for Sustainable Development Goals (FBAS) will be held on 6th -8th, September, 2022 in a hybrid format with the main physical venue located in Beijing, China. The theme of the Forum is "Digital Technology Empowers the Achievement of Sustainable Development Goals", with discussions centering on emerging technology solutions to the implementation of the sustainable development goals. The Forum aims to promote the sharing of big data methods, technologies, and knowledge for sustainable development, and build a global academic exchange platform for the UN Technology Facilitation Mechanism to support sustainable development goals. For more details and registration, please visit at https://fbas2022.scimeeting.cn/en/web/.

The Disaster Risk Reduction Session at FBAS 2022 will be co-organized by Integrated Research on Disaster Risk (IRDR) and the Digital Belt and Road Program (DBAR) Disaster Risk Reduction Working Group. The topic will focus on Priority 5 of the Global Risk Research Framework[1] "Harness Technologies, Data and Knowledge for Disaster Risk Reduction".

Guiding questions:

- How can the technologies be better used to support the SDGs and risk reduction?

- How to develop an open access digital platform to promote transformative action, knowledge sharing and social resilience?

- How can data technology enhance integrated, trans-disciplinary and multi-sector cooperation and decision-making in the diverse development context?

Expected Outcome

The session is expected to bring new insights and recommendations to DRR communities at large regarding harnessing technology, data and knowledge for DRR and SDGs, which has been identified in the Global Risk Research Framework. The outcome of this session will also contribute to the discussions at the Asia-Pacific Ministerial Conference on Disaster Risk Reduction (APMCDRR) to be held in Brisbane (September 2022).

Structure of the Session

8 min for each speaker and 30 min for questions and discussions

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[1] https://www.irdrinternational.org/knowledge_pool/publications/888

Co-Chairs:

Rajib Shaw, Professor, Keio University
HAN Qunli, Executive Director, IRDR

Speakers and presentations:

The order of presentations flows from national experience to regional and global solutions and services.

1. Satellite-based Earth Observations for Integrated Disaster Risk Reduction in China

Suju LI, Director, Satellite Application Department, National Disaster Reduction Center, Ministry of Emergency Management of PRC

2. Geo-spatial Appraisal of Glacial Lakes, Susceptibility Analysis and Potential of Glacial Lake Outburst Floods in the Peri-Glacial Environment of Western Himalayas

Atta-ur-Rahman, Chairman, Department of Geography and Geomatics, University of Peshawar-Pakistan

3. Hazard Assessment and Exposure Modeling Using Digital Data in the Himalayas: An Experience of Nepal

Amod Mani Dixit, National Society for Earthquake Technology-Nepal (NSET)

4. When technology and citizen science meet to manage disaster risk: opportunities and challenges

Deepthi Wickramasinghe, Professor, University of Colombo, Sri Lanka

5. Potential of an Open Access Satellite Data for Flood Extent Identification

Nurfashareena Muhamad, SEADPRI-Universiti Kebangsaan Malaysia

6. Disaster Loss Data Accounting to Enhance Impact Based Early Warning and Early Actions

Bapon (Shm) Fakhruddin, Technical Director, Tonkin+Taylor

7. Knowledge Service Approach for Disaster Risk Reduction

Juanle WANG, Professor, The Disaster Risk Reduction Knowledge Service Sub-Platform of International Knowledge Centre for Engineering Sciences and Technology under the Auspices of UNESCO

Note: The two highlighted presentations need to adjust the title in order to better reflect the topic of this session on data, technology and knowledge sharing.