

**Asian Conference on Disaster Reduction 2018**  
**30 October - 1 November 2018**  
**Awaji Island, Hyogo, Japan**

**Session 4: Space-based technology and affordable solutions facilitating DRR**

**Background and Objective:** The Sendai Framework for Disaster Risk Reduction (SFDRR) highlights the utilization of space-based information and technologies for DRR in Priority for Action 1. In the item of 25 (c) mentions as “To promote and enhance, through international cooperation, including technology transfer, access to and the sharing and use of non-sensitive data and information, as appropriate, communications and geospatial and space-based technologies and related services; maintain and strengthen in situ and remotely-sensed earth and climate observations; and strengthen the utilization of media, including social media, traditional media, big data and mobile phone networks, to support national measures for successful disaster risk communication, as appropriate and in accordance with national laws”. ADRC has been participated and conducted many programs related to utilization space technology for DRR and planning new activities in the next. In addition, affordable solution is one of effective way for disaster mitigation in Asian countries as same as utilization space technology.

Session 4, titled “Space-based technology and Affordable solutions facilitating DRR”, sets the objective as to share latest information of a past effort in this field for SFDRR and consider prospect for the better activity as next step.

**Date and time:** 14:00 – 16:30, 31 October 2018

**Co-chairs:**

- Professor Manzul Kumar Hazarika, Director, Geoinformatics Center – Asian Institute of Technology
- Dr. Hiroshi Inoue, National Research Institute for Earth Science and Disaster Resilience

## **Agenda:**

1. Session explanation, organized by Professor Manzul Kumar Hazarika as co-chair (5 min)
  - 1.1 Sentinel Asia Activities (15 minutes)  
Dr. Shiro Kawakita, Japan Aerospace eXploration Agency (JAXA)
  - 1.2 Use of Satellite Data for Emergency Response in Sulawesi Earthquake and Tsunami (15 minutes)  
Professor Manzul Kumar Hazarika, Director, Geoinformatics Center – Asian Institute of Technology
  - 1.3 Cooperation with Sentinel Asia to provide space information serving for storm emergency respond (15 minutes)  
Dr. Le Quang Tuan, Deputy Director, Vietnam Disaster Management Authority, Vietnam

### ***Coffee Break (20 minutes)***

2. Session explanation, organized by Dr. Hiroshi Inoue as co-chair (5 min)
  - 2.1 Drones for disaster management (20 minutes)  
Dr. Hiroshi Inoue, National Research Institute for Earth Science and Disaster Resilience
  - 2.2 Development of Environmentally-friendly Disaster Resilience Technology by Effective Utilization of Gabions (20 minutes)  
Dr. Hiroshi Nakazawa, National Research Institute for Earth Science and Disaster Resilience
  - 2.3 Introduction of “Relay-by-Smartphone®”- A new communication method in the event of a disaster - (20 minutes)  
Mr. Takahito Inoshita, Kozo Keikaku Engineering Inc.
  - 2.4 What and how the affordable ICT tools can help in strengthening the Disaster Resilience (15 minutes)  
Dr. Kuo-Yu Slayer Chuang, Geothings

\*each presentation includes 5 minutes Q & A