交通部中央氣象局
Central Weather Bureau

國立中正大學
National Chung Cheng University

KAGAWA UNIVERSITY

The 6th International Symposium on

Disaster Mitigation Researches in Earthquake-Prone Countries

Real time monitoring systems,
simulations, observations and educations

October 27 (WED), 2021

09:00-16:05 Taiwan Time (GMT+8) Online Live Streaming

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no charge for symposium participation

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Organizer / Seismological Center, Central Weather Bureau, Taiwan
/ Department of Earth and Environmental Sciences, National Chung Cheng University, Taiwan
/ Institute of Education, Research and Regional Cooperation for Crisis Management Shikoku (IECMS), Kagawa University, Japan

The 6th International Symposium on Disaster Mitigation Researches in Earthquake-Prone Countries
- Real time monitoring systems, simulations, observations and educations -

2021

Taiwan Time(GMT+8) AM 09:00 ▶ 11:50

09:00 ▶ 09:05 Opening Address (Director-General Ming-Dean Cheng, Central Weather Bureau, Taiwan)

First Session 09:10 ▶ 10:40 Chair : Nai-Chi Hsiao

❶ **Next-generation resilient society in natural disaster-prone countries**
Yoshiyuki Kaneda (Kagawa University, Japan) (09:10 ▶ 09:38)

❷ **Active faults in the plain area in southwestern Taiwan**
Ruey-Chyuan Shih (National Chung Cheng University, Taiwan) (09:40 ▶ 10:08)

❸ **Frequent observations of the seafloor crustal deformation by using research vessels and an unmanned surface vehicle**
Takeshi Iinuma (Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Japan) (10:10 ▶ 10:38)

10:40 ▶ 10:50 Coffee Break

Second Session 10:50 ▶ 11:50 Chair : Yoshiyuki Kaneda

❶ **A local magnitude scale from borehole recordings with site correction of the surface-to-downhole**
Tz-Shin Lai, Wei-An Chao, and Yih-Min Wu (Central Weather Bureau, Taiwan) (10:50 ▶ 11:18)

❷ **Dynamics in global climate systems associated with the severe monsoon floods over the Bengal plain**
Toru Terao (Kagawa University, Japan) (11:20 ▶ 11:48)

11:50 ▶ 12:50 Lunch Break

Taiwan Time(GMT+8) PM 12:50 ▶ 16:00

Third Session 12:50 ▶ 14:20 Chair : Shuichi Hasegawa

❶ **Increasing Community Resilience Through Improved Land Administration and Risk Understanding**
Alfita Puspa Handayani and Irwan Meilano (Institut Teknologi Bandung (ITB), Indonesia) (12:50 ▶ 13:18)

❷ **2021-July Melamchi Flood of Central Nepal – a typical example of Himalayan Tsunami related sediment disaster**
Ranjan K. Dahal, Manita Timilsina, Shuichi Hasegawa (Tribhuvan University, Nepal) (13:20 ▶ 13:48)

❸ **Change detection analysis for building collapse estimation using PeruSAT-1 Satellite: Case study: Earthquake in Acarí, Arequipa – Peru – 01.14.18**
Marco Moreno and Wilder Caballero (Video) (National Institute of Civil Defense (INDECI) and Peruvian Space Agency – (CONIDA), Peru) (13:50 ▶ 14:18)

14:20 ▶ 14:30 Coffee Break

Fourth Session 14:30 ▶ 16:00 Chair : Huey-Chu Huang

❶ **Achievements and challenges of the tsunami warning system in Turkey**
Öcal Necmioğlu, Doğan Kalafat, Haluk Özener (Bogaziçi University, Turkey) (14:30 ▶ 14:58)

❷ **Approbation of the algorithm of the testing mutual calibration of pressure and vertical acceleration sensors of deep-water observatories**
Viacheslav Karpov, Mikhail Nosov, Kirill Sementsov, Sergey Kolesov, Hiroyuki Matsumoto, Yoshiyuki Kaneda (M.V.Lomonosov Moscow State University, Russia) (15:00 ▶ 15:28)

❸ **Imaging of Seismogenic Zone in SW Taiwan and Analysis of Regional Seismic Activity**
Strong Wen and Yulien Yeh (National Chung Cheng University, Taiwan) (15:30 ▶ 15:58)

16:00 ▶ 16:05 Closing Address (Director Yuan-Hsi Lee, Department of Earth and Environmental Sciences National Chung Cheng University, Taiwan)

Presentations in English