



Agenda

Day 1-Thursday 24 June 2021 (Bangkok Time: GMT + 7.00)

Time	Sessions
12:00–12:30	Arrival of the Guests in the Plenary Hall
12:30–14:15	<p>Opening Session</p> <p>Welcome and Symposium Overview: Dr. Indrajit Pal, Chair DRSD 2021, Asian Institute of Technology, Thailand</p> <p style="text-align: center;">Video on Asian Institute of Technology and Disaster Preparedness Mitigation and Management</p> <p>Welcome Speech: Dr. Eden Y. Woon, President, Asian Institute of Technology, Thailand</p> <p>Opening Keynote: Ms. Armida Salsiah Alisjahbana, Executive Secretary, United Nations Economic and Social Commission for Asia and the Pacific, Thailand</p> <p>Book Launch: “Disaster Resilience and Sustainability”, Elsevier</p> <p>Special Guest Remarks: H.E. Mr. Mohammed Abdul Hye, Ambassador of People’s Republic of Bangladesh in the Kingdom of Thailand</p> <p>Special Issue Journal Launch: “Bangabandhu Chair Special Issue: Energy, Disaster, Climate Change: Sustainability and Just Transitions in Bangladesh- Vol.1&2”, International Energy Journal (IEJ)</p> <p>Vote of Thanks: Prof. Sangam Shrestha, Co-Chair DRSD 2021, Asian Institute of Technology, Thailand</p> <p style="text-align: center;">Group Photo</p> <hr/> <p>Keynote Session -KS 1: The Global Risk Agenda and Uncovering Resilience Strategies [Plenary Hall]</p> <p>Session Moderator: Dr. Indrajit Pal, AIT, Thailand</p> <p>Session Chair: Prof. Rajib Shaw, Keio University, Japan</p> <p>Keynote 1.1: Prof. Takeuchi Kazuhiko, President, Institute for Global Environmental Strategies, Japan <i>‘Creation of a Circulating and Ecological Sphere (CES) for Attaining Integrated Disaster & Climate Resilience’</i></p> <p>Keynote 1.2: Mr. Hans Guttman, Executive Director, Asian Disaster Preparedness Center, Bangkok</p> <p style="text-align: center;">Q&A</p> <p>MC: Neshma Tuladhar</p> <p>Rapporteur: Arunswasdi Bhuridatpong, Jeeten Kumar</p>
14:15-14:30	-Coffee Break-

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PARALLEL SESSION I

14:30-16:15

Technical Session - 01: Science, Technology and DRR Education [Hall 1]

Co-Chair 1.1: Jacqueleen Joseph
Co-Chair 1.2: Nichole Georgeou

- DRSD21_148** Science Diplomacy for Disaster Risk Reduction: Experience in a New Elective Course at Sichuan University - **Glenn Fernandez**
- DRSD21_166** Disaster Risk Reduction in Colleges - **Alinawaz Nanjee**
- DRSD21_219** Cooperative Education during Covid 19 pandemic: Enhancing legal rights and professional development of interns in Thailand - **Siwarut Laikram**
- DRSD21_261** Assessment of River Erosion's Situation on the Basis of Influence Area: A Case Study on Gaibandha, Jamalpur and Sherpur District of Bangladesh - **Jenifar Selim**
- DRSD21_262** Impact of COVID -19 in Education: Perceptual Analysis - **Ganesh Dhungana**
- DRSD21_273** Influence of Parental Involvement on Disaster Risk Reduction's Learning Outcomes of Preschool Children, Bangkok, Thailand - **Kullanan Sukwanchai**
- DRSD21_147** Disasters Early warning through Electronic Media: Impact of next generation of early warning dissemination on vulnerable communities - **K.A.D.P.K.Kodippili**
- DRSD21_137** Need Assessment Study to Develop an Integrated Framework For Disaster Resilience Capacity Building - **Rudi Febriamansyah**
- DRSD21_298** Primary and Secondary Data Collection for Thesis or Dissertation Writing in the Advent of COVID-19 Pandemic: A Guidepost - **Antonio S. Valdez**
- DRSD21_28** Integrating Gender and Social Inclusion in the curricula of Higher Education Institutions: an approach for the Hindkush Himalaya Region - **Vishal Narain**

Session Moderator: Ganesh Dhungana
Rapporteur: Kullanan Sukwanchai

14:30-16:15

Technical Session - 02: Vulnerability, Resilience and Sustainable Development - I [Hall 2]

Co- Chair 2.1: Mokbul Morshed Ahmad
Co- Chair 2.2: Deepthi Wickramasinghe

- DRSD21_16** Evaluating Urban Resilience in Planning: The Case of Chengdu, China - **Yang Wei**
- DRSD21_04** Does Indigenous Tourism Contribute to Indigenous Resilience to Disasters? A case study on Taiwan's Highlands - **Mucahid Mustafa Bayrak**

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	<p>DRSD21_22 Building Resilience against Floods in India: Human Development, Income, Inequality and Forest Cover - Chandra Sekhar Bahinipati</p> <p>DRSD21_17 Addressing Challenges Towards Achieving Green Growth in Malaysian Cities - Vishanthini Kanasan</p> <p>DRSD21_25 Opportunities And Challenges Farmer's Experiences Using Indigenous Knowledge to Adapt To Climate Change In Sustainable Development In Mekong Delta, Vietnam - Pham Xuan Phu</p> <p>DRSD21_46 Post-disaster long-term livelihood issues in indigenous context- A cause study of 2009 Typhoon Morakot in Rinari settlement - Sung Lun Tsai</p> <p>DRSD21_60 Assessment of Rural Water Security and System Sustainability in Nagpur Metropolitan Area, India - Vibhas Sukhwani</p> <p>DRSD21_74 The community-based disaster risk reduction modelling of the Anak Krakatau Volcano, South Lampung, Indonesia - D.B. Prasetya</p> <p>DRSD21_98 Building capacity and developing community women leadership for disaster resilience in Fiji - Iftekhar Ahmed</p> <p>DRSD21_78 Vulnerability Assessment of Balikpapan (Indonesia) for Climate Change Induced Urban Flooding – Ariyaningsih</p> <p>Session Moderator: Jose Luis C. Arboleda Rapporteur: Afshana Parven</p>
<p>14:30–16:15</p>	<p>Technical Session – 03: Public Health Emergency & COVID-19 Risk- I [Hall 3]</p> <p>Co- Chair 3.1: Victor Hoe Co- Chair 3.2: Sylvia Szabo</p> <p>DRSD21_33 Impact of COVID-19 public measures on country-level trade flows: A global panel data analysis - Worawat Srisawasdi</p> <p>DRSD21_100 A Thematic Review on Health Emergency Disaster Risk Management: Strategy for the Application of Health Emergency Disaster Risk Management in Malaysia - Ainatul Fathiyah Binti Abdul Rahim</p> <p>DRSD21_97 A Framework of Risk Profile in Public Healthcare System Development: A Literature Review - Kodchakorn Krutphong</p> <p>DRSD21_51 Pesticide Use Pattern & Health Impacts Among Farmers & Labourers in Kalahandi District of Odisha, India - Nishikanta Kumar</p> <p>DRSD21_167 Covid -19 as a Disaster: Indian Response towards the Public Health Emergency - Satabdi Das</p> <p>DRSD21_151 Business Continuity and Response to infectious diseases of public-listed companies in Japan : Results of Questionnaire Surveys at the 2009 H1N1 pandemic and at the COVID-19 pandemic - Shohei Beniya</p> <p>DRSD21_161 A study on the need for an effective detection and early warning mechanism for resilience pandemic and epidemic response: lessons from Covid-19 pandemic - Thushara Kamalrathne</p> <p>DRSD21_288 Multi-Level Spatial Analysis and Mapping of Child Malnutrition Outcome and its Determinants in India - Ranadheer Reddy</p> <p>DRSD21_279 Community Perception of Flood Induced Health Risk in Sudan, a case study of Sharq El-Nile area. - Ahmed Abdelgadir Babiker Ahmed</p> <p>DRSD21_278 COVID-19 response by municipal authority with the help of community-led organizations during lockdown: evidence from Cox's Bazar, Bangladesh - Md Bayezid Islam</p> <p>Session Moderator: Neshma Tuladhar Rapporteur: Jeeten Kumar</p>

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<p>14:30-16:15</p>	<p align="center">Technical Session – 04: Multi-Hazard Risk and Governance-I [Hall 4]</p> <p>Co- Chair: 4.1 P. K Joshi Co- Chair: 4.2 Md. Anwarul Abedin</p> <p>DRSD21_50 Vulnerability mapping of residential buildings with respect to cyclonic wind in Mauritius using Remote Sensing and QGIS - Hisaindee Muhammad Nadiim</p> <p>DRSD21_34 Effect of Additional Transverse Reinforcements on the Performance of Axially Loaded RC Column under Close-in Air-blast Loading - S M Anas</p> <p>DRSD21_48 GIS-Based Runoff Estimation and Identification of Potential Runoff sites in Maroodijeex Catchment, Somaliland - Mohamed Omar</p> <p>DRSD21_101 Regional scale groundwater vulnerability assessment to pesticides leaching from Paddy fields in the Northeast region of Thailand - DOUNGPOND PONGGUMNERD</p> <p>DRSD21_267 Applying Google Earth Engine For Flood Mapping And Monitoring In The Downstream Provinces Of Mekong River - Bui Phan Quoc Nghia</p> <p>DRSD21_144 Ultimate bearing capacity of shell footing on hill slopes- Sukanta Das</p> <p>DRSD21_119 Control on Seismic Response due to Stiffness Irregularity by Active Tendons using Genetic Algorithm - Faisal Ahmad Rather</p> <p>DRSD21_218 Nat-Bowtie; a New Approach for Natech Risk Assessment - Sachin Atmaram Damle</p> <p>DRSD21_189 Integrated Rapid Visual Screening and Vulnerability Assessment for Seismic Hazard, Yangon, Myanmar - Hnin Ei Win</p> <p>DRSD21_65 Multi-hazard impact and vulnerability analysis in building city infrastructure resilience - Pawel Gromek</p> <p>Session Moderator: Arunswasdi Bhuridatpong Rapporteur: Bui Phan Quoc Nghia</p>												
<p>16:15 -16:30</p>	<p align="center">-Coffee Break-</p>												
<p>16:30-18:00</p>	<p align="center">Keynote Session -KS2: Dwellers and Stakeholders in Asian Mega-Deltas: their contributions to locally led adaptation and resilience [Plenary Hall]</p> <p>Session Chair: Prof. Andy Large, Newcastle University, UK Keynote 2.1: Ms. Hap Navy, Chair, SUMMERNET <i>'The Role of Women and Small-Scale Fisheries in the Deltas'</i></p> <p>Keynote 2.2: Dr. Shailesh Nayak, National Institute of Advanced Studies, India <i>'Addressing Natural Hazards - A Perspective'</i></p> <p>Keynote 2.3: Dr. Saleemul Huq, International Centre for Climate Change and Development, Bangladesh</p> <p>Panel Discussant:</p> <table border="0"> <tr> <td>Prof. Tuhin Ghosh,</td> <td>Jadavpur University,</td> <td>India</td> </tr> <tr> <td>Dr. Hue Le,</td> <td>Vietnam National University,</td> <td>Vietnam</td> </tr> <tr> <td>Dr. M.F. Feisal Rahman,</td> <td>Durham University,</td> <td>UK</td> </tr> <tr> <td>Prof. Fabrice Renaud,</td> <td>University of Glasgow,</td> <td>UK</td> </tr> </table> <p>MC: Jose Luis C. Arboleda Rapporteur: Afshana Parven, Neshma Tuladhar</p>	Prof. Tuhin Ghosh,	Jadavpur University,	India	Dr. Hue Le,	Vietnam National University,	Vietnam	Dr. M.F. Feisal Rahman,	Durham University,	UK	Prof. Fabrice Renaud,	University of Glasgow,	UK
Prof. Tuhin Ghosh,	Jadavpur University,	India											
Dr. Hue Le,	Vietnam National University,	Vietnam											
Dr. M.F. Feisal Rahman,	Durham University,	UK											
Prof. Fabrice Renaud,	University of Glasgow,	UK											

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18:00-18:30	-Snack Break-
PARALLEL SESSION II	
18:30-20:15	<p style="text-align: center;">Technical Session – 05: Multi-Hazard Risk and Governance-II [Hall 1]</p> <p>Co- Chair 5.1: Albert Salmanca Co- Chair 5.2: Sisira Madurapperuma</p> <p>DRSD21_236 Multi-Hazard Risk Assessment of Educational Institutes of Dehradun, Uttarakhand - Shivani Chouhan</p> <p>DRSD21_260 Saline Intrusion Vulnerability and Resilience in the Mekong River Delta, Vietnam: A Case Study from Tien Giang Province - Hue Le</p> <p>DRSD21_252 Reframing the disaster risk discourse to incorporate indigenous knowledge - Bosco Bwambale</p> <p>DRSD21_156 Localizing Climate And Disaster Risk Assessment For Selected Communities In Quezon City And Angat, Bulacan - Ma. Lorena P. Hernandez</p> <p>DRSD21_117 Cyclonic Damage Assessment of Rural Houses for the East Coastal Region of India - Pradeep K. Goyal</p> <p>DRSD21_61 A study on behavior of Hyperbolic Cooling Tower considering the effect of Soil Structure Interaction - Mahesh Kumar C L</p> <p>DRSD21_63 An Extensive Study on Damage Assessment of Earthquake Affected Buildings in Nepal - Shwetha K G</p> <p>DRSD21_84 Site-specific ground response analysis and liquefaction assessment of Can Tho city (Vietnam) - Van-Quang Nguyen</p> <p>DRSD21_146 Evaluation of empirical SPT blow counts and shear wave velocity correlations using 1D site response analysis for shallow bedrock sites in Islamabad, Pakistan - Muhammad Aaqib</p> <p>DRSD21_88 Study on the influence of site seismic dynamic response under different geological conditions - Xiao Meng</p> <p>Session Moderator: Neshma Tuladhar Rapporteur: Jeeten Kumar</p>
18:30-20:15	<p style="text-align: center;">Technical Session – 06: Vulnerability, Resilience and Sustainable Development -II [Hall 2]</p> <p>Co- Chair 6.1: Joyee Chatterjee Co- Chair 6.2: Michael Boyland</p> <p>DRSD21_110 Climate change impacts in India - Cross sectoral case studies - Shweta Sinha</p> <p>DRSD21_79 Towards an inclusive communication management framework for flood-risk reduction in Davao City, Southern Philippines - Karen Joyce Cayamanda</p> <p>DRSD21_220 Oil spill laws: A legal perspective for oil spill disasters in Thailand - Shubham Pathak</p> <p>DRSD21_96 Understanding and Mapping the Spatial Variability of Social Vulnerability in the Philippines - Sarah Healey</p> <p>DRSD21_228 Assessing Household Vulnerability to Flooding using Livelihood Vulnerability Index in Selected Puroks of Los Baños, Laguna - Darlene A. Tandang</p>

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	<p>DRSD21_75 Wind hazards on Indian power system and challenges for future: A review - Sarv Priya</p> <p>DRSD21_192 Community resilience for Disaster Risk Reduction by engaging local Governance in Bihar (India) - Geetanjali Kumari</p> <p>DRSD21_266 Living with pervasive hazards: Place-based coping strategies of an island community in Cebu, Philippines - John Ceffrey L. Eligue</p> <p>DRSD21_18 Surviving the colossal eruption of Samalas 1257 CE, Lombok, Indonesia: lessons from the ancient civilizations' response to disaster - Mukhamad N. Malawani</p> <p>DRSD21_263 Evaluating municipal disaster risk reduction and management plan towards improving disaster management: A case study in the Philippines - Sophia Mae U. Caralde</p> <p>Session Moderator: Jose Luis C. Arboleda Rapporteur: Nang Ying Ei Hein Kham</p>
18:30-20:15	<p style="text-align: center;">Technical Session – 07: Technology, Innovation and Disaster Risk Reduction- I [Hall 3]</p> <p>Co- Chair 7.1: G.P. Ganapathy Co- Chair 7.2: Basanta Raj Adhikari</p> <p>DRSD21_40 Why Farmers in India are not Adopting Crop-Insurance? Insights from Behavioural Economics Literature - Dinamani Biswal</p> <p>DRSD21_39 Assessment of the numerical methods for seismic resilience of built structures in India - Bhushan Raisinghani</p> <p>DRSD21_111 The Role of Facebook in the Disaster Risk Reduction and Management: Case Study of the Municipality of Cainta - Shekinah Noa Shelomi C. Wenceslao</p> <p>DRSD21_20 ANN application in predicting residual strength of CFST column after fire - Aishwarya Narang</p> <p>DRSD21_150 Numerical simulation of spherical source blast-induced stress wave amplification - Jawad Ur Rehman</p> <p>DRSD21_123 Feasibility study of Locally Accessible Cloud System (LACS) conducted in a remote island in Cebu, Philippines to meet the real demand for ICT under the COVID-19 pandemic - Toshikazu Sakano</p> <p>DRSD21_235 Assessing Public Value of Government-led DRRM Interventions: The Case of DOST's Hydromet and EWS - Marie Antoinette F. Bangabang</p> <p>DRSD21_112 Blast Performance Enhancement of RC Square Column Jacketed with Steel Angle Sections and Battens - Mohd Shariq</p> <p>DRSD21_227 Towards Resilient Municipal Wastewater Sewerage Systems in Khartoum: A Surcharged Flow Measurement Device - Moayad Mutwalli Dawoud Mohamed</p> <p>DRSD21_145 Improving flood flow prediction and early-warning systems using radar-based precipitation data and the HEC-HMS hydrological model: a case study in the Kelani River basin - H.D.Jayanga Thanuka Samarasinghe</p> <p>Session Moderator: Ganesh Dhungana Rapporteur: Kullanan Sukwanchai</p>
18:30-20:15	<p style="text-align: center;">Technical Session – 08: Critical Infrastructure Resilience- I [Hall 4]</p> <p>Co- Chair 8.1: Sreevalsa Kolathayar Co- Chair 8.2: Djoen San Santoso</p>

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DRSD21_281	Role of Financial Incentives in promoting Disaster Resilience - Shavindree Nissanka
DRSD21_154	Developing a Framework on School Resilience for Risk-Informed Decision-Making - Vipul Kumar Nakum
DRSD21_270	Public Investment Strategies for Reducing Risks of Accidents in Water Transport - Watchara Pechdin
DRSD21_249	Sustainability of Coastal Critical Infrastructure: A Case Study of Multi-Purpose Cyclone Shelters of Gujarat - Ankit Jaiswal
DRSD21_258	A Review of Risk Assessment Methodologies of Critical Infrastructure - Anil Kumar
DRSD21_83	Solar energy systems as critical infrastructure in community resilience building: case studies from South Asia - Parimita Mohanty
DRSD21_292	Impact of COVID – 19 on Higher Education Institutions in Northern Mindanao and Manila City: A Pandemic Recovery and Rehabilitation Strategic Plan - Sherlito Poyot
DRSD21_210	Contribution of Energy Resilience Assessment to Sustainable Operation of a Rural Microgrid - Kampanart Silva
DRSD21_56	A Nonlinear Site-Specific Ground Response Study for Soil Sites in Port Sudan Harbor - Mohammed T.M. Ahmed
DRSD21_27	Policy, Institutional Advancements and Challenges in Making Critical Infrastructure Disaster Resilient - Sujit Kumar Mohanty
Session Moderator:	Arunswasdi Bhuridatpong
Rapporteur:	Bui Phan Quoc Nghia
-Closing-	

Day 2 -Friday 25 June 2021 (Bangkok Time: GMT + 7.00)

Time	Sessions
11:45-12:00	Arrival of the Guests in the Plenary Hall
12:00–13:15	<p style="text-align: center;">Keynote Session – KS 3: Technological and Social Innovation Pathways for Safer and Inclusive Societies [Plenary Hall]</p> <p>Session Moderator: Dr. Indrajit Pal, AIT, Thailand</p> <p>Session Chair: Dr. Sanjay Srivastava, United Nations Economic and Social Commission for Asia and the Pacific, Thailand</p> <p>Keynote 3.1: Dr. Reinhard Mechler, International Institute for Applied Systems Analysis, Austria</p> <p>Keynote 3.2: Prof. Gretchen Kalonji, Sichuan University, China <i>'Interdisciplinary Disaster Sciences Research & Education in the Context of COVID-19'</i></p> <p style="text-align: center;">Q&A</p> <p>MC: Jose Luis C. Arboleda</p> <p>Rapporteur: Afshana Parven, Nghia Bui</p>
13:15-13:30	-Coffee Break-

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PARALLEL SESSION III

13:30-15:15

**Technical Session – 09: Bangabandhu Chair Dialogue Panel
 [Hall 1]**

Co- Chair 9.1: Joyashree Roy
Co- Chair 9.2: Sheikh Tawhidul Islam

- DRSD21_54** Development of a Disaster and Climate Risk Atlas in Bangladesh: Methodology for Quantification of Risk - **Md. Sirajul Islam**
- DRSD21_87** Role of Information and Communication Technologies in Build Back Better to Post Disaster Recovery Practices: Insights from Bangladesh - **Sakib Rahman Siddique Shuvo**
- DRSD21_91** Post-Disaster Recovery for Building Resilience: Bangladesh Perspective - **Faiyad H Rishal**
- DRSD21_92** Community-Based Flood Risk Management in Bangladesh: A Bottom-Up Approach - **Soumic Samad**
- DRSD21_172** Promoting Rooftop Rainwater Harvesting for Sustainable Water Usage in Residential Buildings for Climate Resilient City Building- A Case Study of Rajshahi City, Bangladesh - **Muhammad Waresul Hassan Nipun**
- DRSD21_173** Socioeconomic Vulnerability and Mental Health Risk During the Lockdown Periods of Covid-19 Outbreak in Bangladesh: A Perception-based Analysis of Young Adults - **Md. Ashik-Ur-Rahman**
- DRSD21_177** Household migration as a unit following Cyclone Aila in Bangladesh: financing of migration costs and the role of social networks - **Sebak Kumar Saha**
- DRSD21_224** Assessment of Flood Hazard in Climatic Extreme Considering River's Fluvio-Morphic Responses - **Shampa**
- DRSD21_276** Livelihood in Normal and Stressed Situations: Pluvial Flood prone Urban Poor Communities in Dhaka, Bangladesh - **Hasina Akther**
- DRSD21_241** Refugees, Humanitarian Agencies and Sexual and Reproductive Health Intervention: An Investigation using Culture Centered Approach in Rohingya Refugee Settlements of Bangladesh - **Marjan Akhter**

Session Moderator: Neshma Tuladhar
Rapporteur: Jeeten Kumar

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<p>13:30-15:15</p>	<p style="text-align: center;">Technical Session – 10: Vulnerability, Resilience and Cross Cutting Issues [Hall 2]</p> <p>Co- Chair 10.1: Inchinose Tom Co- Chair 10.2: Dyah Rahmawati Hizbaron</p> <p>DRSD21_285 Farmer’ choices of climate-resilient practices in coping with water scarcity: Current situation and welfare impacts on rice-cultivating households in Vietnam - Nguyen Duc Kien</p> <p>DRSD21_89 A comparative study of climate change vulnerability of farm households in Cambodia, Vietnam and Myanmar - Minh Dao Duy</p> <p>DRSD21_293 Business Continuity Level of Quezon City in the Advent of Environmental Catastrophe towards Business Sustainability Development - Tabassam Raza</p> <p>DRSD21_07 The Impact of COVID-19 Pandemic on Public Engagement Strategies for Disaster Preparedness. Case of Foreign Residents in Japan - Bismark Adu-Gyamfi</p> <p>DRSD21_102 COVID-19 and Regional Disaster Governance in Southeast Asia - Lina Gong</p> <p>DRSD21_190 Review the initiatives to mitigate health emergencies caused by COVID-19 pandemic in Rohingya refugee camps of Bangladesh - Abir Ahammad Talukdar</p> <p>DRSD21_296 Occupational health and safety of garments and textile industry workers in Chittagong, Bangladesh - Edris Alam</p> <p>DRSD21_165 Contribution of Disaster Learning Tools to Earthquake Disaster Risk Reduction in Japan: Applying a Framework Classified by the Real and Virtual of Social Network and Community Space - Yusuke Toyoda</p> <p>DRSD21_143 Disaster Early Warning systems for vulnerable, agriculture dependent communities: From Upstream to Downstream - J.M.A.R.Jayarathne</p> <p>DRSD21_197 Evaluating the network of stakeholders in Multi-Hazard Early Warning Systems (MHEW) for multiple simultaneous hazards amidst COVID-19, Sri Lanka as a case in point - Chandana Siriwardana</p> <p>Session Moderator: Jose Luis C. Arboleda Rapporteur: Afshana Parven</p>
<p>13:30-15:15</p>	<p style="text-align: center;">Technical Session – 11: Vulnerability, Resilience and Sustainable Development -II [Hall 3]</p> <p>Co- Chair 11.1: Yonariza Co- Chair 11.2: Van Kien Nguyen</p>

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	<p>DRSD21_191 A proposal for disaster risk management in the local level: lesson learned from earthquake prone area in Sengon Village, Central Java, Indonesia - Djati Mardiatno</p> <p>DRSD21_155 Understanding the Importance and identification of mechanisms for better integration of Community-based knowledge into Disaster Risk Assessment - Asitha de Silva</p> <p>DRSD21_269 A validated framework for women’s empowerment in disaster risk governance - Kinkini Hemachandra</p> <p>DRSD21_200 Geopolymer concrete - a study of an alternative material for ordinary portland cement - Ishan Thakar</p> <p>DRSD21_66 Mechanical Behavior of Geopolymer in Addition with Fibre Reinforced Materials – A Review - Divya Jat</p> <p>DRSD21_251 Assessing risk and adaptation options across building types and neighbourhoods in the cities and urbanising regions of Vietnam - Nigel K. Downes</p> <p>DRSD21_67 Perception Of Climate Change and Farmer’s Choice of Community-Based Adaptation Methods: A Case Study In Central Of Vietnam - Nguyen Thi Dieu Linh</p> <p>DRSD21_201 A Review of Flood Hazard and Risk Management Strategies, past, present, and future challenges in the South Asian Region, Particularly in Sri Lanka - Tharika Fernando</p> <p>DRSD21_107 Effects of herbicides application on the sustainability of tea production in Sri Lanka - IDUH Piyathilake</p> <p>DRSD21_57 Molecular Identification of Lactic Acid Bacteria Potentially as Starter to Accelerate the Process of Biogas Formation that Isolated from Cow Manure Sludge and Its Application into Elpiji Tube - Endang Purwati</p> <p>Session Moderator: Ganesh Dhungana Rapporteur: Kullanan Sukwanchai</p>
13:30-15:15	<p style="text-align: center;">Technical Session - 12: Multi-Hazard Risk and Governance- III [Hall 4]</p> <p>Co- Chair 12.1: Jessada Karnjana Co- Chair 12.2: Takashi Oda</p> <p>DRSD21_131 Comprehensive Flood Risk Analysis At Your Fingertips - Matthijs Bos</p> <p>DRSD21_142 Livelihood Assessment of Smallholder Rice Farmers in Drought-prone Regions in Bihar, India - Vivek Kumar Singh</p> <p>DRSD21_140 Greedy Copula Segmentation applied to Multivariate Non-Stationary Time Series for Optimal Climate Change Adaptation – Lance Manuel</p> <p>DRSD21_43 Seismic vulnerability and risk assessment of an existing building in Chennai - Kausalya P</p>

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	<p>DRSD21_121 Comparison of the Vulnerability Assessment of Step – Back Configuration and Set – Back Configuration Structures on Hill Slopes - Yaman Hooda</p> <p>DRSD21_124 Effect of Transverse Circular and Helical Reinforcements on the Performance of Circular RC Column under High Explosive Loading - Rafat Tahzeeb</p> <p>DRSD21_242 Time-Frequency Analysis of Strong Ground Motions from the Mw 6.8 1991 Uttarkashi Earthquake - Kanuka Mareddy</p> <p>DRSD21_230 A Framework of Pandemic-Risk Assessment and its Applicability to Reduce the Pandemic's Adversity - Md Shahid Akhter</p> <p>DRSD21_120 Wavelet Analysis of Strong Ground Motions from the 2015 Nepal Earthquake - Mohammed Ayub Ifan</p> <p>DRSD21_239 Categorization of Differential Impacts of Disasters in the Batangas Province, Philippines - Flordeliz Agra</p> <p>Session Moderator: Arunswadi Bhuridatpong Rapporteur: Bui Phan Quoc Nghia</p>
15:15-15:30	-Coffee Break-

PARALLEL SESSION IV	
15:30-17:15	<p>Technical Session - 13: Circulating Ecological Sphere and Ecosystem [Hall 1]</p> <p>Co- Chair 13.1: Tetsuo Kuyama Co- Chair 13.2: Bijon Kumer Mitra</p> <p>DRSD21_114 Capturing mutual benefits through urban-rural partnership: A city regional perspective for collective security of food, energy, and water in the post COVID-19 era - Priyanka Mitra</p> <p>DRSD21_305 Circulating and Ecological Sphere Perspective for Nagpur Region, India - Sameer M. Deshkar</p> <p>DRSD21_304 Building City-Region Sustainable and Resilience: Application of Circulation and Ecological Sphere Approach for bridging the urban-rural systems -A case study of Udon Thani City Region, Thailand - Wijitbusaba Ann Marome</p> <p>DRSD21_303 Risk of Waste Crisis and Waste Management Solutions in Hoi An City toward Circulating and Ecological Sphere Approach. - Pham Phu Song Toan</p> <p>DRSD21_301 Application of Circulating and Ecological Sphere Approach for Translating Global Goals to Local Actions - Bijon Kumer Mitra</p> <p>DRSD21_302 Mapping ecosystem services across the urban-rural gradient for disaster and climate resilience: A case study of Udon-Thani, Thailand - Rajarshi DusGupta</p> <p>DRSD21_291 People's perception of disaster-induced food security and its adaptation in the vulnerable coastal communities, Bangladesh - Afshana Parven</p>

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	<p>DRSD21_180 Policy Paradigm in Social Entrepreneurship for Sustainable and Resilient Development - Apoorva Patel</p> <p>DRSD21_271 GIS Based Solid Waste Management of Rajshahi City Corporation - Shahida Afrin</p> <p>Session Moderator: Neshma Tuladhar Rapporteur: Jeeten Kumar</p>
15:30-17:15	<p style="text-align: center;">Technical Session - 14: Critical Infrastructure Resilience-II [Hall 2]</p> <p>Co- Chair 14.1: Iftekhar Ahmad Co- Chair 14.2: Indrajit Pal</p> <p>DRSD21_72 Resilient modulus of municipal solid waste bottom ash in Vietnam - Nguyen Chau Lan</p> <p>DRSD21_153 Seismic behavior of pavements-a approach towards seismic resistance design of roads - Ravindra Kumar Burnwal</p> <p>DRSD21_211 Reinvestigation of the Landscape of Energy Resilience Research using Bibliometric Analysis - Pidpong Janta</p> <p>DRSD21_226 Intensity measures for probabilistic seismic demand models of skewed bridges - Duy-Duan Nguyen</p> <p>DRSD21_176 A conceptual framework for identifying the risk of infectious disease transmission during rapid-onset disaster evacuation – a literature review based on the lessons from COVID-19 and the theories of network centrality - Malith Senevirathne</p> <p>DRSD21_188 Seismic Fragility Assessment of Load Bearing Soft Brick Unreinforced Masonry Piers - Tariq Anwar Aquib</p> <p>DRSD21_29 An integrated and adaptable critical infrastructure resilience assessment framework for earthquakes - Mathavanayakam Sathurshan</p> <p>DRSD21_168 WASH Systems in Developing Nations: An Evaluation Framework for Institutional Resilience - Gina Acharya</p> <p>DRSD21_64 Re-evaluation of cyclone shelters along the coastal region of Bangladesh through a risk analysis approach - Arfaa Feezanul Islam</p> <p>DRSD21_204 A working strategy for preparedness in Kerala schools: a suggestive study - Manoj Kumar Kini</p> <p>Session Moderator: Jose Luis C. Arboleda Rapporteur: Nang Ying Ei Hein Kham</p>
15:30-17:15	<p style="text-align: center;">Technical Session – 15: Vulnerability, Resilience and Sustainable Development -IV [Hall 3]</p> <p>Co- Chair 15.1: Avishek Datta Co- Chair 15.2: Prakash K. Paudel</p>

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	<p>DRSD21_99 Assessment of Residential Building using indicators of Sustainability - Darshini S Shekhar</p> <p>DRSD21_90 Disaster Management Practices During the Emergency Response Eruption of Merapi Volcano Amidst COVID-19 Pandemic - Amelia Naurah Syahda</p> <p>DRSD21_103 Mitigating Caste Based Exclusion in Post Disaster Relief Operations in India - Satwik Patnaik</p> <p>DRSD21_13 Measuring Capacities and Protecting Communities : Strengthen Regional Resilience in the Flooded Industrial Area in Thailand - Tadashi Nakasu</p> <p>DRSD21_294 Investigating major causes of severe floods using global datasets: A case of Nepal, USA, and Thailand - N. Shalinda Fernando</p> <p>DRSD21_141 Expanding the Legitimate Peripheral Participation Model: The Perspective of Language Minorities' Vulnerability = - Janiel Hazle</p> <p>DRSD21_129 Windbreak Stonewalls in the Mountainous Village of Japan: A case study of Hongu district, Tanabe city, Wakayama Prefecture - Chiho Ochiai</p> <p>DRSD21_85 The integration of urban planning in disaster risk reduction: Strategy to reduce urban vulnerability - Lilian Smart</p> <p>DRSD21_76 Earthquake and Flood Resilience through Spatial Planning in complex urban system- Sujata Kodag</p> <p>DRSD21_174 Hydrogel application in Paddy Cultivation to Mitigate Drought Impact in Semi-Arid regions of India - Boreddy Surya Prakash Reddy</p> <p>Session Moderator: Ganesh Dhungana Rapporteur: Kullanan Sukwanchai</p>
15:30-17:15	<p style="text-align: center;">Technical Session – 16: Disaster Risk Reduction in Higher Education [Hall 4]</p> <p>Co- Chair 16.1: Anil Kumar Gupta Co- Chair 16.2: Ranit Chatterjee</p> <p>DRSD21_289 Mainstreaming Capacity Development Short Courses and Training Programs on Disaster Risk Management in Higher Education Institutions: A Hybrid Ladderized Learning Model - Erick Oinde</p> <p>DRSD21_113 Knowledge, Attitude, and Behavior related to Prevention of COVID-19 among University Students - Hema Malini</p> <p>DRSD21_308 Health Resilience Status of COVID-19 for Malaysia and its Urban Planning Implication - Irina Safitri Zen</p> <p>DRSD21_58 Natural Hazards and their Impacts to the three (3) Campuses of Mindoro State College of Agriculture and Technology (MinSCAT) - Wilma C. De Los Santos</p> <p>DRSD21_244 Flood knowledge management by multiple stakeholders: An</p>

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	example from Malaysia - Nurul Along
DRSD21_195	A capacity building framework to integrate MOOC on climate change education in the higher education institutions of Bangladesh, Russia, and Sri Lanka - Hetti Arachchige Chamila Priyankara
DRSD21_212	Exploring the impact of climate change induced displacements in Asia – A case study in Sri Lanka for improving climate change higher education under the BECK project - Keshani Munasinghe
DRSD21_15	Game-based pedagogical framework for teaching systems approach and disaster resilience - Navarun Varma
DRSD21_199	A common framework for MOOC curricular development in climate change education - findings and adaptations under the BECK project for higher education institutions in Europe and Asia - Dhiman Kumer Roy
DRSD21_216	Resilience of agro-ecosystems through Higher Education; identification of key thematic areas based on Sri Lankan higher education system - D.M.N.A.Dissanayake
DRSD21_237	Barriers in Accessing Maternal Health Care during Covid-19 : Understanding the Perspectives of Rural Garo Women in Bangladesh - Suban Kumar Chowdhury
Session Moderator:	Arunswasdi Bhuridatpong
Rapporteur:	Bui Phan Quoc Nghia
17:15-17:30	-Coffee Break-

PARALLEL SESSION V

17:30-19:15	<p>Technical Session – 17: Vulnerability, Resilience and Sustainable Development -V [Hall 1]</p> <p>Co- Chair 17.1: Sangam Shrestha Co- Chair 17.2: Puvadol Doydee</p> <p>DRSD21_138 Sustainability of ecosystem services in the Batang Toru landscape: local farmers’ perspective - Endrizal Ridwan</p> <p>DRSD21_158 Are all the adaptive interventions sustainable? A case study of Gabura Union, Bangladesh - Mahir Tazwar</p> <p>DRSD21_21 How Embankment influences Coastal Livelihood in the context of Climate Adaptation?: A case study of Indian Sundarban Delta - Senjuti Saha</p> <p>DRSD21_115 Capacity needs for mainstreaming disaster and climate risk into Comprehensive Land Use Planning process: Observations from Itogon Municipality, the Philippines - Saswata Sanyal</p> <p>DRSD21_118 Resilient WASH Development for Urban Poor: A Case of Ahmedabad - Akshat Thakore</p> <p>DRSD21_106 Social and Economic Issues in Sustainability of Green Energy Development in Indonesia – Yonariza</p>
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	<p>DRSD21_132 A systematic review of strategies for urban planning in tsunami prone areas - U.T.G Perera</p> <p>DRSD21_127 Sustainable Water Conservation Techniques for the Livelihood of Tribal Community of India - Nikil. S</p> <p>DRSD21_284 Hazard Stress and Increasing Socio-Economic Vulnerability in Indian Sundarban Region - Papia Guha</p> <p>DRSD21_196 Sustainable Infrastructure Development in Extremely Soft Soil using Engineered Super Light Foundation - Abdul Hakam</p> <p>Session Moderator: Neshma Tuladhar Rapporteur: Jeeten Kumar</p>
17:30-19:15	<p style="text-align: center;">Technical Session – 18: Multi-Hazard Risk and Governance-IV [Hall 2]</p> <p>Co- Chair 18.1: Irfan Ahmad Rana Co- Chair 18.2: Parimita Mohanty</p> <p>DRSD21_182 Distance Estimation based on Bounded-Error Estimation, Interval Analysis, and Dempster- Shafer Theory using in Landslide Monitoring Framework - Kittikom Sangrit</p> <p>DRSD21_170 GIS based HVRA for Risk Anticipation and Disaster Risk Reduction - Rahim Dobariya and Dilshad Bano</p> <p>DRSD21_37 Predict the critical load of rectangular concrete-filled steel tube columns with ultra-high-strength concrete with software ANSYS - Phan Van-Phuc</p> <p>DRSD21_181 Opportunities for implementing multi-hazard impact based forecast and warning system to achieve Sendai framework for DRR: Bangladesh - Tahmida Sarker Muna</p> <p>DRSD21_47 Multi-temporal Satellite-Based Flood Hazard Mapping: A case Study from Khartoum North Locality - Mohamedelamin Mahmoud Mustafa Mahmoud</p> <p>DRSD21_77 Modelling Soil Erosion: Samanalawewa Watershed, Sri Lanka - ADTN Kumarasiri</p> <p>DRSD21_179 Comparative Analysis of TANK and SIMHYD Rainfall-Runoff models in the Hemavathi watershed, Cauvery Basin, India - Masthan Reddy Nagireddy</p> <p>DRSD21_108 Economic impact assessment of energy resilience measures to address risks in a solar power plant - a case study of 700 kW solar power plant in Chiang Mai Rajabhat University. - Pichayaluck Patumwongsakorn</p> <p>DRSD21_280 Assessing Land Use-Land Cover Change and Its Impact on Socio-economic Mobility of Rajarhat New Town Agglomeration, Kolkata, India - Rituparna Acharyya</p> <p>DRSD21_09 Climate change risk mitigation through local climate zoning: A case study of Lahore and Islamabad, Pakistan - Irfan Ahmad Rana</p> <p>Session Moderator: Jose Luis C. Arboleda</p>

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	<p>Rapporteur: Nang Ying Ei Hein Kham</p>
17:30-19:15	<p>Technical Session – 19: Vulnerability, Resilience and Sustainable Development -VI [Hall 3]</p> <p>Co- Chair 19.1: Salvatore G.P. Virdis Co- Chair 19.2: Tabassam Raza</p> <p>DRSD21_268 An exploratory study on feasibility of materials for refugee relief settlements - Ziya Sameer</p> <p>DRSD21_160 How to address the Housing Needs of the Displaced promoting Resilience and Sustainable Communities - R.R.J Chathuranganee Jayakody</p> <p>DRSD21_214 Numerical Computation of Code Compliant Beam Column Joints Made with Low Strength Concrete - Muhammad Hamza Sabir</p> <p>DRSD21_282 Seismic performance of RC buildings with concrete made by using different waste materials - Rudrakshi Choudhary</p> <p>DRSD21_152 Resilience Master Plan As The Pathway To Actualize Sustainable Development Goals – A Case Of Kozhikode, Kerala, India - Kiran Kumar S</p> <p>DRSD21_53 Spatio-temporal vegetation cover analysis to determine climate change in Papua New Guinea - Tingneyuc Sekac</p> <p>DRSD21_234 A review of climate change impact on the coastal built environment - Chamindi Malagoda</p> <p>DRSD21_255 Factorial Analysis Of Soil Organic Carbon: Draws Attention As Climate Change Mitigation In Coastal Area Of Bangladesh - Farzana Sharmin</p> <p>DRSD21_19 Yoga and Disaster Prevention in Japan: Addressing physical and mental well-being through individual, community and corporate preparedness - Akiko Kato</p> <p>DRSD21_259 An Evaluation of Disaster Risk of Bursa: Estimation of Potential Damage and Loss - Didem Gunes Yilmaz</p> <p>Session Moderator: Ganesh Dhungana Rapporteur: Kullanan Sukwanchai</p>
17:30-19:15	<p>Technical Session – 20: Natural Hazard and Disaster Risk Reduction [Hall 4]</p> <p>Co- Chair 20.1: Sarawut Ninsawat Co- Chair 20.2: Khamarrul Azahari Razak</p> <p>DRSD21_68 Forest Engineer or Crop Raider? Understanding the local farmer's action against the Tapanuli Orangutan in Agroforest Landscape of Batang Toru Ecosystem - Hamid Arrum Harahap</p> <p>DRSD21_233 Risk and Climate Sensitive Sustainable Development in Asia: Need for Policy Coherence in the Post Covid Development</p>

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	<p>Phase - Madurapperuma, S.J.K</p> <p>DRSD21_44 Demarcation of liquefaction hazard zone and DRR analysis on grey infrastructure from a Geo – engineering design perspective in Vanua levu, Fiji Islands - Merewalesi Naikatini</p> <p>DRSD21_221 Disaster Risk Assessment of Rohingya refugee camps of Bangladesh through spatial analysis and compare approaches taken by relevant working agencies - Abdullah Al Masud</p> <p>DRSD21_23 Estimating flood impact using sentinel-1 and ALOS-2/PALSAR-2 imagery: A case study of southern Thailand - Gautam Dadhich</p> <p>DRSD21_232 Modelling of an Idealised Bifurcation Channel with Weir for Flood Risk Reduction - Tan Cha Yao</p> <p>DRSD21_240 Time-Frequency Analysis of Strong Ground Motions from the 1999 Chamoli Earthquake - Vishwaajith Pemmasani</p> <p>DRSD21_175 Factors affecting the outbreak resilience of local healthcare systems: investigating the Philippine Covid-19 pandemic experience - Diocel Harold M. Aquino</p> <p>DRSD21_135 Clutter Removal Algorithm Based on Grid Density with a Recursive Approach for Rockfall Detection in 3D point clouds from a Terrestrial LiDAR Scanner - Phuriphan Prathipasen</p> <p>DRSD21_295 Target E of the Sendai Framework: Current Status and how to complete by 2022 end - Aloysius (LOY) Rego</p> <p>Session Moderator: Arunswasdi Bhuridadtpong Rapporteur: Bui Phan Quoc Nghia</p>
19:15-19:30	-Break-
19:30-20:45	<p style="text-align: center;">Keynote Session – KS 4: The Pandemic Challenges and Road to Recovery of Education System [Plenary Hall]</p> <p>Session Moderator: Dr.Sangam Shrestha, AIT, Thailand</p> <p>Session Chair: Dr. Zita Sebesvari, United Nations University, Germany</p> <p>Keynote 4.1: Prof. Dilanthi Amartunga, University of Huddersfield, UK <i>'Disaster Risk Reduction & Sustainable Development Goals Education & Research'</i></p> <p>Keynote 4.2: Mr. Soichiro Yasukawa, United Nations Educational, Scientific and Cultural Organization Paris <i>'UNESCO's Contribution to SDG and Sendai Framework for Disaster Risk Reduction'</i></p> <p>Valedictory Session: Closing Remarks by Prof. Shobhakar Dhakal, Vice President for Academic Affairs, AIT, Thailand</p> <p>Report from Chair DRSD-2021: Dr. Indrajit Pal, AIT, Thailand</p> <p>MC: Neshma Tuladhar Rapporteur: Jeeten Kumar, Jose Luis C. Arboleda</p>
-Closing-	

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