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Nota di contenuto	Report on the 5th Global Summit of the Global Alliance of Disaster Research Institute (GADRI) -- Results on the GADRI Questionnaire Survey: Contributions of global disaster research institutes to the Sendai Framework, climate change adaptation and mitigation, and COVID-19 -- COVID-19 and other hazards – Science into Action -- GADRI Report on the Presentation by Ms. Loretta Hieber Girardet -- Report of the presentation by Prof. Ortwin Renn on Lessons of Covid-19 for Systemic Risk Governance; Recycling Sustainability and Resilience -- Report on Americas covering North and South America -- Comprehensive Approach to Reduce Hurricane Risk with a Focus on Equity and Economic Prosperity -- Recent Studies on Structural Resilience against Nonstationary, Thunderstorm Wind Loads -- Report on Asia and Oceania Session -- Report on Keynote speakers:Open Synthetic Systems; and Using science to support decision-makers to

reduce risk from natural hazards events: some examples from Aotearoa New Zealand -- Disaster Risk Reduction in Small Nations -- Engaging Science with actions: A case for EEW in India -- Report on Europe with Africa and the Middle-East Session -- Urgent Need to Integrate Disaster Risk Reduction to Climate Change Adaptation in Africa -- Economics for Disaster Prevention and Preparedness; The World Bank and the European Commission -- The Youth Voice and the Disaster and Development Society -- Innovative Technological Learning Management Model towards Sustainable Quality Education and Flexible Learning amidst COVID-19 Pandemic -- Socio-Hydrogeomorphology and School Catchment as Useful Science and Tool for Disaster Risk Reduction -- Food Security, Climate and Disaster Nexus: Need for Policy Coherence in Risk-Informed Development -- Spatial and temporal variations of PM2.5 over Thailand and the use of Sentinel-5P as a PM2.5 proxy during high pollution events attributed to vegetation open burning -- Impact of Water Quality Parameters on the Marine Fish Landings in Malaysia -- Predicting The Streamflow in Langat River Basin of Selangor, Malaysia Under Climate Change Scenario Using Rainfall-Runoff Inundation (Rri) Model -- Triggering of a Dry Convective Storm under a Heat Wave condition on 4 April 2021 over Bangladesh and Its Impacts on Boro Rice -- Stakeholder social networks for the dissemination of disaster prevention technologies in Tokyo: a case study analysis -- Integrating nature-based solutions into landslide risk management -- Justification of seismic origin of large-scale prehistoric rockslides and rock avalanches on the anticlinal ridges: challenges and solutions -- Gap analysis for developing Rapid Loss Estimation System (RLES) in the Central and West Asia -- Performance of Rubberized Pozzolan Concrete Filled Steel Tube under Lateral Cyclic Loading -- Creating Heat Map Using Point Density Analysis of MODIS Fire Hotspot Data for Johor State -- Achievements and Recommendations of the 5th Global Summit of GADRI: Engaging Sciences with Action.

Sommario/riassunto

This book presents selected papers from the 5th Global Summit of the Global Alliance of Disaster Research Institutes (GADRI)—Engaging Sciences with Action, which was held virtually and regionally from 31 August to 1 September 2021. The Summit reappraised progress and achievements in disaster risk reduction research by the members towards the targets of the science and technology roadmap to implement the goals and priorities of the Sendai Framework for Disaster Risk Reduction 2015–2030. The programme communicated academic science across various scientific disciplines to policymakers and practitioners. This cross-disciplinary aspect is important for academics to be aware of how science can directly contribute to mitigate national and local disasters, for example, the global pandemic COVID-19, earthquakes and volcanic eruptions. The Global Summit of GADRI was attentive to the necessary influence of the Global Alliance and its supporting regional alliances to reflect disaster research into the outcome of the United Nations Climate Change Conference of the Parties (COP26) that took place in Glasgow, UK, in November 2021. The summit contributed to COP26 and provided an impetus to climate change mitigation and adaptation, and health challenges for climate policy to work in the framework of disaster resilience and response. Facilitated through the UK Alliance for Disaster Research, the recommendations by the 5th Global Summit of GADRI were presented at COP26 as well as the United Nations Office for Disaster Risk Reduction (UNDRR)’s Global Platform for Disaster Risk Reduction titled “From Risk to Resilience: Towards Sustainable Development for All in a COVID-19 Transformed World”, which was held in Bali, Indonesia, from 23 to 28 May 2022. .

