



Advancements in Disaster Management: Insights into Risk Assessment, Mitigation, and Funding Strategies

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Welcome to the first issue of Volume 6, 2023 of the International Journal of Disaster Management (IJDM). In this edition, we present a varied range of research articles that contribute to the field of disaster management and provide valuable insights into various aspects of risk assessment, mitigation, response and funding strategies.

The COVID-19 pandemic has significantly impacted multiple sectors worldwide, including the construction industry. The research article by Lendra et al. focuses on assessing occupational safety and health risk management in construction projects during the pandemic. Their study identifies the risks, provides an assessment using standardized methods, and proposes control solutions to ensure the safety of workers (Lendra et al., 2023).

Another research article by Arrisaldi et al. investigates landslide risk assessment using Geographic Information System (GIS) in Pengasih and Sentolo District, Kulon Progo, Indonesia. By analyzing various parameters and vulnerability factors, the authors present a comprehensive landslide risk map to aid disaster preparedness through community resilience (Arrisaldi et al., 2023).

Tsunami evacuation routes are critical for coastal communities prone to seismic activities. Indira and Manessa present a study on generating evacuation routes based on megathrust scenario hazard models in Palabuhanratu Village, Sukabumi, West Java. Their research emphasizes the significance of revising hazard maps and identifying optimal routes to enhance the preparedness and safety of vulnerable communities (Indira & Manessa, 2023).

In the field of aviation safety, Irsyadillah explores the concept of disaster capitalism within the aviation industry. By analyzing corporate communications related to safety culture, the study relieves light on the potential contests between corporate profits and safety standards, emphasizing the need for enhanced safety cultures within the industry (Irsyadillah, 2023).

Spatio-temporal analysis of ground movement is crucial for assessing and mitigating the impacts of landslides. Amalia et al. present a study using unmanned aerial vehicles (UAV) photogrammetry to monitor and analyze ground movement in Gampong Lamkleng, Aceh Besar. Their research indicates the effectiveness of UAV technology in supplying detailed data for landslide analysis and mitigation (Amalia et al., 2023).

Hydraulic jumps in stilling basins are crucial in avoiding dam failures and reducing flooding risks. Fatimah et al. analyze the characteristics of hydraulic jumps in a stilling basin to improve dam safety. Their findings provide insights into the modifications required to improve energy dissipation and prevent potential flood disasters (Fatimah et al., 2023).

The COVID-19 pandemic has significantly changed mobility patterns and associated CO2 emissions. Darma et al. examine these changes in Indonesia, emphasizing the importance of sustainable transportation policies to reduce

environmental hazards. Their study supplies valuable information for policymakers and related stakeholders to navigate future transport planning (Darma et al., 2023).

Euis Sunarti et al. presents a study on the ecological transactions of the Anak Dalam Tribe in Bukit Dua Belas National Park, Jambi, Indonesia. The research focuses on understanding the socio-ecological changes and potential risks faced by the tribe. The findings underscore the need for holistic livelihood ecosystems and disaster risk reduction strategies to safeguard indigenous communities (Sunarti et al., 2023).

We are also satisfied to include "The Potential of the Land Value Capture Scheme in the Perspective of Disaster Risk Funding" by Handayani et al. The findings demonstrate that the Land Value Capture (LVC) scheme can serve as an additional strategy for funding disaster risk management in Indonesia, facilitating the integration of LVC with disaster risk financing and insurance (Handayani et al., 2023).

Among the thought-provoking articles in this issue, we are happy to include "Evolutionary Study of Three Decades Literatures Related to Disaster Management Agency and Public Policy: A Bibliometric Study" by Kurniawati et al. This study employs a bibliometric approach to examine scientific literature written by international authors focusing on disaster management agencies and their relation to public policy. By analyzing publications from 1995 to 2022 using a comprehensive database from Scopus, the authors provide insights into the emergence of this topic, the most researched disaster management agency, publication types, influential countries, authors, sources, and affiliations (Kurniawati et al., 2023).

We hope that the articles raised in this issue of IJDM contribute to advancing knowledge in disaster management and nourish practical insights for researchers, policymakers, and practitioners. We thank all the authors for their valuable contributions and the reviewers for their thorough evaluation and feedback. We encourage readers to explore these articles and contend in further conversations on disaster management.

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