1. Record Nr. UNINA9911018663503321

Autore	Pal Indrajit
Titolo	Proceedings of the 3rd International Symposium on Disaster Resilience and Sustainable Development—Volume 3 : Multi-Hazard Approach of GIS and Remote Sensing for Disaster Risk Reduction (DRR) / / edited by Indrajit Pal, Anirban Mukhopadhyay, Salvatore G.P. Virdis, Sheikh Tawhidul Islam
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9674-88-3
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (345 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 660
Altri autori (Persone)	MukhopadhyayAnirban VirdisSalvatore G. P Tawhidul IslamSheikh
Disciplina	551 363.34
Soggetti	Natural disasters Fire prevention Buildings - Protection Sustainability Natural Hazards Fire Science, Hazard Control, Building Safety
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Drought vulnerability assessment in Lam Ta Kong watershed -- Exploring drought characteristics in Vietnam during the period 2001 – 2022 using MODIS image -- Geo-Spatial Mapping and Analysis of Water Sources Suitability as Potable Water in South Cotabato Province Philippines -- Watershed Modeling with Statistical Downscaling of Climate Scenarios: A Case Study of Lahore City Using Climate Model data for hydrologic modeling (CMhyd) -- Impact of Land Use/Land Cover Changes and Urbanization in Peshawar City -- Assessing Urban Heat Islands in Dhaka: Spatial Analysis of Seasonal Variations and Land Use Impact' -- Identification and Ranking of Spatial Clusters of Flood Prone Basic Education Facilities in the CAMANAVA Area, Metro Manila, Philippines Using Kernel Density Estimation

Technique and Attribute Overlay Analysis -- Engaging Youth in Flood Risk Management: A Citizen Science Geospatial Initiative in Bangladesh Network Analysis of Resource Mapping for Fire Emergency Response : A Case Study of Phrakhanong District -- Application of educational technologies to assist in recovering gaps in student learning during disasters: experiences from international schools around Bangkok affected from Covid-19 -- Proposal of a portable ICT system integrated with AI processing for enhancing disaster front-line operation -- IoT for Smart Cities: An application Based Perspective -- Enhancing the communication and electricity lifelines for response to natural disasters in New Zealand -- Navigating Through the Power Crisis: Assessing Sustainable Energy Resource for Long-term Power Outages in San Jose, Occidental Mindoro, Philippines.

Sommario/riassunto

This book presents selected papers from the 3rd International Symposium on Disaster Resilience and Sustainable Development, organized by the Disaster Preparedness, Mitigation and Management Program of the Asian Institute of Technology, Thailand, in collaboration with academic institutions and organizations across the world. It assembles a compendium of research contributions addressing crucial topics at the nexus of science, technology, climate change, multiple hazards, and measures for fortifying resilience. This book delves into a comprehensive understanding encompassing a range of disaster management facets, including earthquakes, flooding, tropical cyclones, and the cross-disciplinary technologies devised to mitigate these catastrophes. These subjects are extensively explored within the various technical papers presented in this volume. The contents of this compilation encapsulate research findings and case studies that spotlight recent strides in the realm of disaster risk science and technology. By addressing multifaceted challenges, these contributions underscore the pursuit of sustainability and lasting resilience. The content caters to research scholars, students, industry professionals, data analytics companies, re-insurance companies, government bodies and policymakers, who work in the field of hazard modelling and disaster management. This book represents Volume 3 of a three-volume book series.