

**5<sup>th</sup> World Congress on  
DISASTER MANAGEMENT**



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## Volume 5 CHALLENGES AND OPPORTUNITIES OF DISASTER MANAGEMENT

*Edited by*

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# Preface

The Fifth World Congress on Disaster Management (WCDM) was organised in Delhi from 24<sup>th</sup> to 27<sup>th</sup> November 2021 jointly by the Government of Delhi, the Indian Institute of Technology Delhi, and the Disaster Management Initiative and Convergence Society which created the platform of WCDM. Over the years, WCDM has emerged as the largest conference on disaster management in the developing world.

The theme of the Fifth WCDM was *Technology, Finance and Capacity*. 7 Plenary Sessions, 50 Technical Sessions and Special Technical Sessions were organised around this overarching theme. While eminent thought leaders and experts delivered keynote addresses and participated in the panel discussions of the Plenary Sessions. It is the Technical Sessions that received the longest traction as Call for Papers was issued for these sessions months in advance and more than 600 researchers, practitioners and policy makers responded with abstracts of their ideas. These were reviewed by experts and subsequently, 250 of these abstracts were developed as full papers. This is the second of five-volume series of compendium of these papers.

The papers have been published in the same form these were received without any peer review to provide a flavour of the raw ideas that emerged from the Technical Sessions of the conference. Some of these papers presented by the young researchers and practitioners may not have the rigours of academic disciplines, but these do reflect the cross current of thoughts that went around in these sessions of the Conference. These provide new ideas and insights that provide value to the current discourses on the subject.

These papers have been arranged under five broad themes—first: Disaster Risk Management, second: Nature and Human Induced Disasters, third: Coronavirus Pandemic, fourth: Disaster Response and fifth: Challenges and Opportunities of Disaster Management. Understandably the papers do not cover every aspect of the themes, these discuss only those aspects that the authors have chosen to highlight. The present volume is a compilation of 49 papers on the theme of Nature and Human Induced Disasters, which is further divided into eight sub-themes, first: Challenges and Opportunities of Green Infrastructure, second: Environmental Issues in Disaster Risk Management, third: Emerging Challenges for Urban Planning, fourth: Making Cities Resilient: Case Studies, fifth: Issues of Health Risk Management, sixth: Managing Risks of Agricultural Sector, seventh: Hazard, Vulnerability and Risk Assessment: Case Studies and eighth: Assessing and Mitigating Risks of Landslides.

The Conference secretariat has brought the papers together, but his credit lies solely and exclusively on the authors.

**Dr S. Ananda Babu**  
**Convener**  
**Fifth World Conference on Disaster Management**



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