

PREFACE

The International Conference on Disaster Management (ICDM) is a biennial event hosted by Universitas Andalas. This year marked the fourth conference (The 4th ICDM 2024), which took place at the Convention Hall of Universitas Andalas in Padang, West Sumatera, Indonesia, from September 30 to October 1, 2024. The conference was jointly organized by the Postgraduate School of Universitas Andalas, the Civil Engineering Department, the Disaster Study Center, and the Research Institute and Community Service of Universitas Andalas.

At the 4th ICDM 2024, speakers from various countries gathered to exchange valuable knowledge and cutting-edge ideas, particularly focused on aiding developing nations in enhancing disaster resilience and effectively mitigating and managing disasters. This year's conference revolved around the theme **Natural Disasters and Non-Natural Disasters**, covering various topics:

- Risk-Based Disaster Analysis for Regional Development and Spatial Planning
- Social, Economic, Cultural, Community and Local Wisdom Issues in Disaster Management
- Policy, Institutional Governance, and Capacity Building for Disaster Management
- Disaster Monitoring, Broadcasting, Early Warning and Information System
- Health, Emergency Preparedness and Post-Disaster Healing
- Physical Infrastructure Management and Recovery
- Non-Physical Infrastructure Management and Recovery
- Geological, Environmental and Climate Change Risk and Rehabilitation
- Damage and Lost Mapping, and Post-Disaster Needs Analysis
- Food Security, Risk and Response for Disaster
- Historical Spatial and Temporal Patterns of Disasters in the Past
- Multi Hazard Risk Assessment and Management
- Impact of Disaster and Disaster Risk Reduction
- Seismic and Tsunami Disaster Management and Mitigation
- Retrofit, Rehabilitation and Reconstruction
- Other Related Topics

On behalf of the committee, I extend my heartfelt gratitude to the keynote speakers, invited speakers, and presenters who shared their work and submitted their manuscripts. I am delighted to note that this year's conference featured speakers from across the globe, including the United States, the United Kingdom, China, Thailand, the Philippines, Malaysia, India, and Indonesia. I also wish to express my sincere thanks to the 4th ICDM 2024 committee, the reviewers, and everyone who contributed to the success of this event. Their dedication and effort made it possible to organize the conference at such a high standard and compile high-quality papers for the conference proceedings. Finally, I greatly appreciate the support of EDP Sciences in publishing this volume of conference papers. We look forward to welcoming everyone to the next conference.

Padang, November 5, 2024

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Chair of the 4th ICDM 2024