

Preface

The integration of Artificial Intelligence (AI) and the Internet of Things (IoT) is reshaping disaster risk management and promoting sustainable environmental systems. As natural disasters become more frequent and severe, the need for advanced, real-time monitoring and intelligent decision-making solutions is critical. AI and IoT, through continuous data collection and predictive analytics, offer innovative ways to enhance disaster preparedness, response, and recovery efforts. This book delves into how these technologies can be harnessed to mitigate the impacts of disasters, improve early warning systems, and build resilient infrastructures. From real-time environmental monitoring with IoT sensors to AI-driven models that predict and assess risks, this work explores practical applications that are transforming disaster risk management strategies. Additionally, AI and IoT are vital in fostering sustainable environmental practices by optimizing resource usage and reducing pollution. By bringing together insights from leading experts, this book aims to provide a comprehensive resource for researchers, policymakers, and practitioners interested in leveraging AI and IoT for disaster management and environmental sustainability, paving the way for a more resilient and sustainable future.