

Internet of Things and AI for Natural Disaster Management and Prediction

Part of the Advances in Computational Intelligence and Robotics Book Series

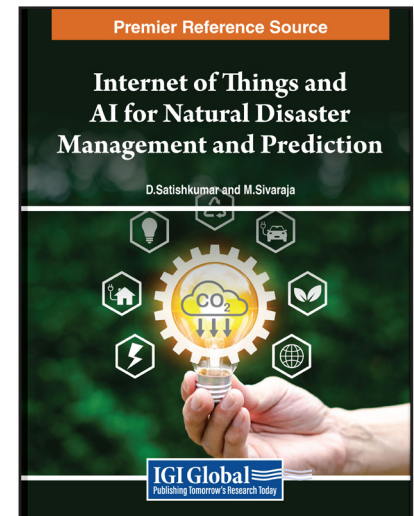
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Description:

In a world where natural disasters wreak havoc with increasing frequency and severity, the need for accurate prediction and effective management has never been more critical. From earthquakes shattering communities to floods submerging vast regions, these events endanger lives and strain resources and infrastructure to their limits. Yet, amidst this turmoil, traditional forecasting methods often need to catch up, leaving us vulnerable and reactive rather than proactive.

This comprehensive academic collection provides a beacon of hope in uncertain circumstances: **Internet of Things and AI for Natural Disaster Management and Prediction**. Within its pages, leading scholars and practitioners converge to explore the transformative potential of machine learning in mitigating the impact of natural calamities. Through a synthesis of cutting-edge research and practical applications, this book serves as a roadmap toward a more resilient future.

From leveraging deep learning algorithms, to analyzing satellite imagery for early warning systems, to harnessing artificial neural networks to model complex disaster scenarios, each chapter delves into a specific aspect of machine learning's role in disaster preparedness and response. By bridging the gap between theory and practice, this book empowers academics, policymakers, and practitioners alike to harness the full potential of machine learning in safeguarding lives and livelihoods.



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Topics Covered:

- AI-Assisted Restoration and Support
- Artificial Intelligence
- Artificial Neural Networks
- Deep Learning Applications
- Disaster Management
- Earthquake Predictions
- Flood Predictions
- Hurricane Predictions
- Image-based AI Applications
- Machine Learning Applications
- Natural Disaster Prediction
- Pandemic Management

Subject: Computer Science & Information Science

Classification: Edited Reference

Readership Level: Advanced-Academic Level
(Research Recommended)

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