

Special Issue

From Prediction to Action: Next Generation AI Solutions for Disaster Preparedness Emergency Response and Community Safety

Message from the Guest Editor

This Special Issue explores AI's transformative role in mitigating natural and human-made hazards, safeguarding lives, property, and infrastructure. Recent advances in AI enable improved hazard forecasting, real-time situational awareness, rapid decision-making, and coordinated emergency response. We invite original research, case studies, reviews, and perspectives on AI innovations for disaster risk reduction and emergency management. Key areas include:

- Predictive modeling for early warning systems
- AI-driven decision-support platforms
- Robotics and autonomous systems for disaster response
- Remote sensing and geospatial intelligence
- Big data analytics for risk assessment
- Human-AI collaboration for community resilience

Submissions emphasizing real-world applications, multidisciplinary approaches, and practical lessons are encouraged. This Special Issue aims to bridge theory and practice, fostering knowledge exchange among researchers, practitioners, and policymakers to advance AI-powered emergency management systems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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