

# CALL FOR PAPERS

Significance of AI in Public Sector, Power & Hydro Sector, Water Resources, and Dam Safety During Unprecedented Floods

## Call for Technical Papers

**Join us** at the International Conference on the Significance of AI in Public Sector, Power & Hydro Sector, Water Resources, and Dam Safety During Unprecedented Floods, taking place in New Delhi, India, on October 16–17, 2025.

**Organised by** Worldwide Conference, this event aims to bring together experts, researchers, and practitioners to explore the pivotal role of Artificial Intelligence in mitigating the impact of floods.

## About the Conference

The increasing frequency and intensity of floods pose significant challenges to infrastructure, communities, and economies worldwide. This conference will focus on the application of AI technologies in various sectors to enhance preparedness, response, and resilience against flood-related disasters. It offers a platform to share knowledge, discuss innovative solutions, and foster collaboration to address this critical global issue.

The conference will bring together industry leaders, government officials, researchers, engineers, and technocrats from around the world to discuss innovations, share practical experiences, and present forward-thinking strategies that use AI to enhance safety, reliability, and sustainability.

## Themes & Topics

We invite original research papers, case studies, and innovative solutions addressing the following themes (but not limited to) :

- **AI in Public Sector Flood Management:** Policy implications, data-driven governance, and public awareness.
- **Significance of AI** in power sector management
- **AI- Driven optimisation of hydro and power operations**
- **Risk Analysis and decision support systems using AI**
- **AI based modeling of hydrological and hydraulic systems**

- **Smart monitoring systems** for aging dams and water infrastructure
- **AI in climate resilience and disaster preparedness**
- **AI Applications in Power & Hydro Sector:** Predictive maintenance, grid resilience, and risk assessment.
- **AI for Water Resources Management:** Water distribution optimization, quality monitoring, and conservation.
- **AI in Dam Safety:** Structural health monitoring, early warning systems, and risk analysis.
- **AI-driven Flood Forecasting and Early Warning Systems:** Advanced modeling techniques, real-time data integration, and communication strategies.
- **AI for Post-Flood Disaster Assessment and Recovery:** Damage assessment, resource allocation, and community support.
- **AI and Machine Learning for Flood Risk Mapping and Vulnerability Analysis:** Identifying vulnerable areas, creating risk maps, and incorporating climate change scenarios.
- **AI-enabled Infrastructure for Flood Resilience:** Designing resilient infrastructure, smart city solutions, and nature-based approaches.
- **Data Analytics and Big Data for Flood Management:** Collecting, processing, and analyzing large datasets for better decision-making.
- **AI-powered Sensors and IoT for Real-Time Flood Monitoring:** Developing and deploying sensor networks for accurate and timely flood monitoring.

## Important Dates

- Abstract Submission Deadline: July 15, 2025
- Full Paper Submission Deadline: September 05, 2025
- Notification of Acceptance of paper: September 08, 2025
- Conference Dates: October 16-17, 2025

## Submission Guidelines

- Abstracts should be no more than 300 words.
- Full papers should be between 4000-6000 words.
- All submissions must be original and not under consideration for publication elsewhere.
- Please submit your abstracts and papers in pdf or word format..

## Contact Information

For any inquiries, please contact:

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## **A Note from the Organizing Committee**

We look forward to welcoming you to New Delhi for a stimulating and insightful conference. Together, we can leverage the power of AI to build a more resilient future in the face of unprecedented floods.

Sincerely,

Afreen Patel  
Worldwide Conference

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