International Conference under the Patronage of ANSO

2024 • 2033 International Decade of Sciences for Sustainable Development

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ANSO-COMSATS

Conference on

Artificial Intelligence Enabled Solutions for Sustainable Water Governance, Security and Safety



Endorsed as an Official Activity of International Decade of Sciences for Sustainable Development (IDSSD) 2024-2033, led by UNESCO

22-25 September 2026 | **COMSATS University Islamabad (CUI), Islamabad**

Growing urgency of ensuring water security and safety amid climate change, rapid urbanization, industrial expansion, population growth, and increasing pollution is a critical challenge. Conventional water management systems, largely dependent on manual monitoring, are inadequate for timely detection of contamination, scarcity risks, and infrastructure failures.

Artificial Intelligence (AI), including machine learning, deep learning, and big data analytics are transforming water resource management. When integrated with Remote Sensing (RS), Internet of Things (IoT), and Geographic Information Systems (GIS), AI enables more accurate monitoring, prediction, and optimization of water quality and supply in a cost-effective manner.

To advance dialogue and innovation in this domain, Commission on Science and Technology for Sustainable Development in the South (COMSATS) is organizing "ANSO-COMSATS Conference on Artificial Intelligence Enabled Solutions for Sustainable Water Governance, Security and Safety".

COLLABORATING PARTNERS

- Commission on Science and Technology for Sustainable Development in the South (COMSATS)
- Xinjiang Institute of Ecology and Geography (XIEG), Chinese, Academy of Sciences (CAS), China
- COMSATS University Islamabad (CUI), Pakistan
- National Research Centre (NRC), Egypt

CONFERENCE FUNDING

Alliance of National and International Science Organizations for the Belt and Road Regions (ANSO) under the CAS–ANSO Conference Program.

The conference aims to bring together global experts, researchers, policymakers, and industry leaders to discuss emerging tools, highlight successful applications, and encourage collaborative research.

OBJECTIVES

- Present recent innovations in AI tools for water monitoring and management
- Demonstrate AI integration with remote sensing, GIS, and sensor networks
- Assess AI's potential in early warning systems for contamination and scarcity
- Explore scalable applications for diverse socio-economic contexts
- Establish ethical guidelines for AI-driven water governance

THEMES

- Smart Water Resource Monitoring and Forecasting
- AI in Real-Time Water Quality Management
- AI for Agricultural Water Management
- AI for Decision Support in Water Governance
- AI and Citizen Science for Water Safety
- Data-Driven Approaches to Water Security

For details, updates & registration of Conference: https://comsats.org/anso-comsats-conference-ai4water-2026/

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