Introduction

Artificial intelligence is recognized as one of the most powerful tools for transforming various aspects of human life. Afghanistan, as a country undergoing reconstruction and development, can take effective steps toward sustainable development by purposefully utilizing the potential of artificial intelligence.

In light of the importance of this issue, Jahan Institute of Higher Education is organizing a national conference titled "National Conference on the Application of Artificial Intelligence for Sustainable Development in Afghanistan." This conference provides a valuable academic platform for experts, researchers, scholars, scientists, university faculty members, and ultimately, decision-makers from across the country to come together and explore innovative, technology-driven solutions to the nation's development challenges. The goal is to lay the foundation for sustainable and inclusive transformation in key sectors such as the economy, education, healthcare, and the environment.

Conference Themes

Main Themes of the conference

1 The Role of Artificial Intelligence in Sustainable Development: Global Perspectives and Opportunities of Afghanistan.

2 Utilizing AI in Mechanizing Agriculture and Efficient Extraction of Natural Resources.

3 The usages of Artificial Intelligence in the Public Health Sector.

4 The usages of AI in Education and Learning.

5 E-Governance and Combating Corruption through Artificial Intelligence.

6 Enhancing Economic Productivity and Prosperity in Afghanistan through AI.

7 Managing Financial Systems, Banking, and the Digital Economy with AI.

8 Economic Planning and Crisis Management through Artificial Intelligence.

9 Legal, Ethical, and Cultural Aspects of Intelligent Systems.

10 Advancing Civil Engineering and Infrastructure Development with AI.

11 Smart Management of Water, Environment, and Sustainable Energy.

12 AI-Powered Urban Transportation, Traffic, and Public Services.

13 Human Capacity Building through Intelligent Technologies.

14 Technical, Legal, and Organizational Infrastructure for AI Implementation.

Call for Papers

National Conference on the Application of Artificial Intelligence for Sustainable Development in Afghanistan

Article Submission Deadline:

Complete Manuscripts Submission:
3 October 2025
Review Results Announcement and Manuscripts Acceptance: 7 October 2025

Article Submission:

Interested authors can submit their articles related to the conference to the following address:
https://forms.gle/RBnEeD5HH5CjxnSc7
aisd2025@jahan.edu.af
aisd2025@gmail.com
0787588978-0785490049

Note:

• The top three articles of the conference will be awarded a cash prize and as well as the Jahan University's Trophy;

• The fourth to sixth placed winners of the conference will receive both a cash prize and a non-cash gift;

• All accepted articles in the conference will be recognized as scholarly at the national level and will be published by the university's expense in the university's academic journal;

• The authors of the accepted articles will be awarded certificates and letters of acceptance.

Sub-themes of the conference

- National frameworks for data collection, storage, and analysis to support the use of artificial intelligence.
- Computational and physical infrastructures required for the development of artificial intelligence in Afghanistan (such as data centers).
- Development of cybersecurity for the safe use of artificial intelligence.
- Coordination among governmental, private, and academic institutions for the development of AI.
- Formulation of policies, strategies, and programs related to artificial intelligence in support of sustainable development.
- Creating incentive mechanisms for innovation, research, and investment in the field of artificial intelligence in Afghanistan.
- Crop yield prediction and analysis of agricultural product reduction by using artificial intelligence.
- Analyzing soil, water, and climate for smart agricultural planning.
- Diagnosis of pests, diseases, and plant problems by using artificial intelligence.
- Managing irrigation, fertilizers, and seeds based on artificial intelligence.
- Applying intelligent systems in livestock, dairy, and poultry farming.
- Using artificial intelligence for marketing and logistical management of agricultural products.
- Diagnosis, treatment, and prediction of diseases with the help of artificial intelligence.
- Management and analysis of health data by using artificial intelligence.
- Management of emergency situations (accidents and urgent cases) through artificial intelligence.
- Management of distribution, availability, and demand for medicine by using artificial intelligence.
- Mapping and analysis of public health risks (such as epidemics) by artificial intelligence.
- Research, testing, and development of drugs by using artificial intelligence technology.
- Designing educational assessment and analysis systems through artificial intelligence.
- Creating teaching materials for teachers with the help of artificial intelligence.

- The Usages of artificial intelligence in educational management and information systems.
- The usage of artificial intelligence to predict students' academic growth and provide guidance.
- Development of digital schools, online learning, and digital content through artificial intelligence.
- Digitization and simplification of governmental services with the help of artificial intelligence.
- Transparent analysis of documents, contracts, and expenses by using artificial intelligence.
- Automation of governmental processes by using artificial intelligence.
- Designing systems for detecting, tracking, and analyzing corruption through artificial intelligence.
- Management and monitoring of public resources through artificial intelligence.
- Using artificial intelligence in the development of agriculture, livestock, and production sectors.
- Market and customer needs analysis by using artificial intelligence.
- The role of artificial intelligence in business, import-export, and logistics management.
- Utilization of artificial intelligence in the development of industrial automation and robotics.
- Evaluation of production efficiency and analysis of economic growth with the help of artificial intelligence.
- Intelligent algorithms for risk analysis, lending, and investment.
- Prevention of fake transactions and development of security systems using artificial intelligence.
- Developing mobile banking and digital currencies through artificial intelligence.
- The role of artificial intelligence in asset management.
- Enhancing financial inclusion through AI-based solutions.
- Data analysis for the formulation of strategic economic policies.
- Prediction of natural disasters, wars, and economic crises.
- Evaluating and analyzing the development projects with the help of artificial intelligence.
- Automation, budgeting, and financial resource management.
- Risk management systems based on artificial intelligence.
- Designing legal frameworks for the use of artificial intelligence.
- Protection of personal data and privacy in the use of artificial intelligence.
- Respecting cultural values in the development of artificial intelligence technologies.
- Increasing public awareness about the usages and risks of artificial

intelligence.
- Management of construction projects by using AI-based systems.
- Urban development planning with the help of artificial intelligence.
- Analysis of dangerous conditions such as earthquakes and floods by using artificial intelligence.
- Monitoring the quality of construction materials with the help of artificial intelligence.
- Smart control of water resources and their consumption.
- Analysis of climate change and management of environmental risks by using artificial intelligence.
- Intelligent systems for green and solar energy.
- Monitoring and management of pollution by using artificial intelligence.
- The role of artificial intelligence in the efficient use of sustainable resources.
- Urban traffic management by intelligent systems.
- Analysis of road conditions and infrastructure with the help of artificial intelligence.
- Planning and development of public transportation by using artificial intelligence.
- Prediction of traffic accidents and obstacles with the help of artificial intelligence.
- The usages of smart mapping for urban development.
- Utilizing artificial intelligence in technical and vocational education.
- Improving the quality of education through artificial intelligence.
- Personalization of learning and assessment through intelligent systems.
- analyzing market needs and coordinating job opportunities with the help of artificial intelligence.
- Intelligent support tools for teachers and instructors.
- Creating intelligent infrastructures for data and information management.
- Designing national policies and strategies in the field of artificial intelligence.
- Creating national mechanisms for research, innovation, and investment in the field of artificial intelligence.
- Access to artificial intelligence technologies and international collaborations.