

# Call for Papers

## International Conference on AI-Driven STEM Education and Learning Technologies (AISTEMEDU 2025)

<https://aistemedu.org/>

December 29-30, 2025 | Hybrid

Prince Mohammad Bin Fahd University (PMU),  
Al Khobar, Saudi Arabia

### About AISTEMEDU 2025

#### Scope of the conference

The International Conference on AI-Driven STEM Education and Learning Technologies (AISTEMEDU 2025) aims to foster interdisciplinary research that advances AI applications in STEM education, computational sciences, and sustainable technologies. Aligned with Saudi Vision 2030, the conference will bring together academia, industry, and policymakers to explore AI-driven innovations that enhance learning methodologies, optimize smart systems, and promote ethical AI adoption for societal transformation.

ICMASS 2025 will focus on the following key areas:

- Transform **STEM Education with AI** – Advance AI-driven learning methodologies, intelligent tutoring systems, and adaptive educational technologies to enhance student engagement and knowledge acquisition.
- Innovate **Computational and Mathematical Modeling** – Explore advanced mathematical and computational techniques to optimize AI applications, driving economic diversification and technological progress.
- Promote **AI for Sustainability** – Showcase AI-powered solutions in environmental sustainability, smart infrastructure, and renewable energy to support global green initiatives and Net Zero goals.
- Address **Ethical and Societal Impacts of AI** – Examine AI governance, ethical considerations, and workforce transformation to ensure responsible AI integration in education, industry, and society.

AISTEMEDU 2025 serves as a **collaborative platform** for research and innovation, supporting Saudi Arabia's vision of a **knowledge-based, sustainable, and AI-driven future**.

### AISTEMEDU Event

We are hosting the conference in a hybrid mode to ensure greater accessibility and inclusivity, allowing participants from different locations to join virtually if they are unable to attend in person. This format also enhances engagement by leveraging digital tools for interactive discussions

while maintaining the benefits of face-to-face networking and collaboration.

### Topics of Interest

The conference will focus on Mathematics, Artificial Intelligence, and Sustainability, exploring their intersections and real-world applications. Key topics of interest include AI-driven mathematical modeling, sustainable AI solutions, and the role of computational techniques in addressing global challenges.

### 1. AI-Driven STEM Education and Learning Technologies

- AI in Personalized and Adaptive Learning
- Intelligent Tutoring Systems and Educational Chatbots
- AI for Curriculum Development and Assessment
- Digital Transformation in Education and E-Learning Technologies

### 2. Mathematics, Computational Sciences, and AI Applications

- Applied Mathematics for AI and Machine Learning
- Optimization and Operations Research for AI Systems
- Cryptography, Secure Computation, and AI in Cybersecurity
- AI-Augmented Mathematical and Computational Modeling

### 3. AI for Sustainability and Green Technologies

- AI-Driven Climate Solutions and Environmental Sustainability
- Smart Grids, Renewable Energy, and Carbon-Aware AI
- Sustainable Manufacturing and Automation with AI
- Green Computing and Energy-Efficient AI Algorithms

### 4. AI, Society, and Ethical Considerations

- Explainable and Responsible AI in Education and Governance
- AI for Workforce Development and Future Job Markets
- Ethics, Policy, and Governance in AI and Sustainability
- The Role of AI in Digital Humanities and Computational Social Sciences

### Conference Host

- Prince Mohammad Bin Fahd University (PMU)

## Submission

Authors are invited to submit original papers of no more than eight A4 pages using the standard IEEE PES Conference template at <https://www.ieee.org/conferences/publishing/templates.html>. Please follow the instructions for authors on the conference website.

The papers must clearly state the objectives of the work, its significance in advancing the state of the art, and the methods and specific results in sufficient detail to assess the novelty of the work. The submission should include appropriate key equations, figures, tables, and references. Papers not conforming to these requirements will be rejected without review.

All submissions will go through a double-blind peer review process.

Submissions should be made via Easy Chair at <https://easychair.org/>

Presented papers may be submitted to IEEE Xplore for publication.

## Important Dates

- Full Paper Submission: 15 September, 2025
- Acceptance Notification: 30 October, 2025
- Final Submission: 15 November, 2025
- Conference: 29-30 December, 2025

## Registration Fee

Registration Category	Cost
IEEE International Members	\$US250
IEEE Saudi Members	\$US200
Non-IEEE International Authors	\$US300
Non-IEEE Saudi Authors	\$US250

## Conference Chairs

- Prof. Dr. Faisal Yousif Al Anezi Prince Mohammad Bin Fahd University, Al Khobar, Saudi Arabia
- Prof. Dr. Muhammad Waqar Ashraf, Prince Mohammad Bin Fahd University, Al Khobar, Saudi Arabia

## Conference Committees

### Steering Committee

- Chair, Dr. Shakir M. Usman, Prince Mohammad Bin Fahd University, Al Khobar, Saudi Arabia.
- Co-Chair, Dr. Irfan Siap, Prince Mohammad Bin Fahd University, Al Khobar, Saudi Arabia.
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## Scientific Committee

- Chair, Dr. Nidal Abu-Libdeh, Prince Mohammad Bin Fahd University, Al Khobar, Saudi Arabia.
- Co-Chair, Dr. Hanadi Abdelsalam, Prince Mohammad Bin Fahd University, Al Khobar, KSA.
- All Scientific Committee members will hold at least a PhD degree in the same field as the author, ensuring a high level of expertise in the review process.

## Publication Committee

- Chair, Dr. Shakir M. Usman, Prince Mohammad Bin Fahd University, Al Khobar, Saudi Arabia.
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## Conference Secretary

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Conference Contact: [info@aistemedu.org](mailto:info@aistemedu.org)

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