Call for Papers

2nd International Conference on AI-Driven STEM Education and Learning Technologies (AISTEMEDU 2027)

https://aistemedu.org/

April 13-14, 2027 | Hybrid

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

About AISTEMEDU 2027

Scope of the conference

AISTEMEDU 2027 aims to foster transdisciplinary research that advances AI applications in education, computational sciences, humanities, and sustainable technologies. Aligned with Saudi Vision 2030, the conference brings 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.

AISTEMEDU 2027 will focus on the following key areas:

- Advancing **AI-driven learning methodologies**, intelligent tutoring systems, and adaptive educational technologies to enhance student engagement and knowledge acquisition.
- Exploring **advanced mathematical and computational techniques** to optimize AI applications, driving economic diversification and technological progress.
- Generating innovative solutions to **develop humanities through AI applications**; facing ethical & intellectual challenges.
- Showcasing **AI-powered solutions in economic and environmental sustainability**, smart infrastructure, and renewable energy to support global green initiatives and Net Zero goals.
- Examining AI governance, **ethical considerations**, and workforce transformation to ensure responsible AI integration in education, industry, and society.

AISTEMEDU 2027 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

We invite papers that explore the transformative role of AI across diverse fields, from personalized education systems and curriculum design to sustainable development, smart cities, and AI-driven climate solutions. Topics of interest include AI ethics, policy frameworks, workforce intelligence, organizational transformation, and the integration of AI in emerging technologies, with an emphasis on fostering equity, inclusion, and social impact through interdisciplinary innovation.

1. AI-Driven Education, Learning Sciences, and Human Development

- AI in Personalized, Adaptive, and Intelligent Learning Systems
- AI for Curriculum Design, Assessment, and Learning Analytics
- Human-AI Interaction in Educational Contexts
- AI in Language Learning, Educational Psychology, and Cognitive Development
- Equity, Inclusion, and Ethical Dimensions of AI in Education
- Digital Transformation, E-Learning Technologies, and Future Learning Models

2. Mathematics, Computational Intelligence, and AI Foundations

- Applied Mathematics and Optimization for AI Systems
- Computational Modeling, Simulation, and Intelligent Systems
- Cryptography, Secure Computation, and AI in Cybersecurity
- Data Science, Algorithm Design, and Computational Social Systems
- AI in Economic, Financial, and Decision Sciences Modeling
- Network Science, Complexity, and Socio-Technical Systems

3. AI for Sustainable Development, Smart Systems, and Environmental Resilience

- AI-Driven Climate Solutions and Environmental Sustainability
- Smart Cities, Smart Infrastructure, and Renewable Energy Systems
- Sustainable Manufacturing, Automation, and Green AI
- AI for Urban Planning and Social Infrastructure
- AI Governance for Sustainability and Environmental Ethics
- Community-Based AI and AI for UN Sustainable Development Goals (SDGs)

4. AI Ethics, Policy, and Global Governance

- Ethical, Transparent, and Accountable AI Systems
- AI in Public Administration, Governance, and Policymaking
- AI and Human Rights, Labor Markets, and Workforce Policy
- AI in Media, Communication, and Public Discourse
- Philosophical Foundations and Cultural Implications of AI
- Regulation, Global Legislation, and Responsible AI Frameworks

5. Innovation, Leadership, and AI-Driven Organizational Transformation

- AI for Strategic Decision-Making and Organizational Excellence
- Human-AI Collaboration in Leadership and Management
- AI in Global Business, Entrepreneurship, and Emerging Markets
- Innovation Studies and Transformative AI Applications

- Behavioral Insights and AI-Augmented Decision Sciences
- AI for Social Innovation, Community Impact, and Institutional Change

6. AI for Emerging Technologies, Workforce Intelligence, and Future Skills

- AI-Driven Skill Forecasting and Labor Market Intelligence
- Predictive Workforce Planning and Talent Development Systems
- AI in Curriculum Governance and Higher Education Transformation
- Lifelong Learning, Reskilling, and Digital Credentials
- Reinforcement Learning and Adaptive Systems for Skills Optimization
- Workforce Equity, Inclusion, and AI-Enabled Opportunity Access

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 template. 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 single-blind peer review process.
Submissions should be made via ConfManage here

Note: Accepted papers will be published in conference proceedings & indexed in Scopus.

Important Dates

- Full Paper Submission: January 05, 2027
- Acceptance Notification: January 31, 2027
- Final Submission: February 15, 2027
- Conference: April 13-14, 2027

Fee Structure

Registration Fee (for Online & In-person)	$150

Conference Chair

- Prof. Dr. Muhammad Waqar Ashraf, PMU, Saudi Arabia

Conference Committees

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- Chair, Dr. Shakir M. Usman, PMU, Saudi Arabia.
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Scientific Committee

- Chair, Prof. Dr. Asma Abbas, PMU, Saudi Arabia.
- Co-Chair, Dr. Alia Amir, PMU, KSA.

All Scientific Committee members will hold at least a PhD degree in the relevant fields.

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