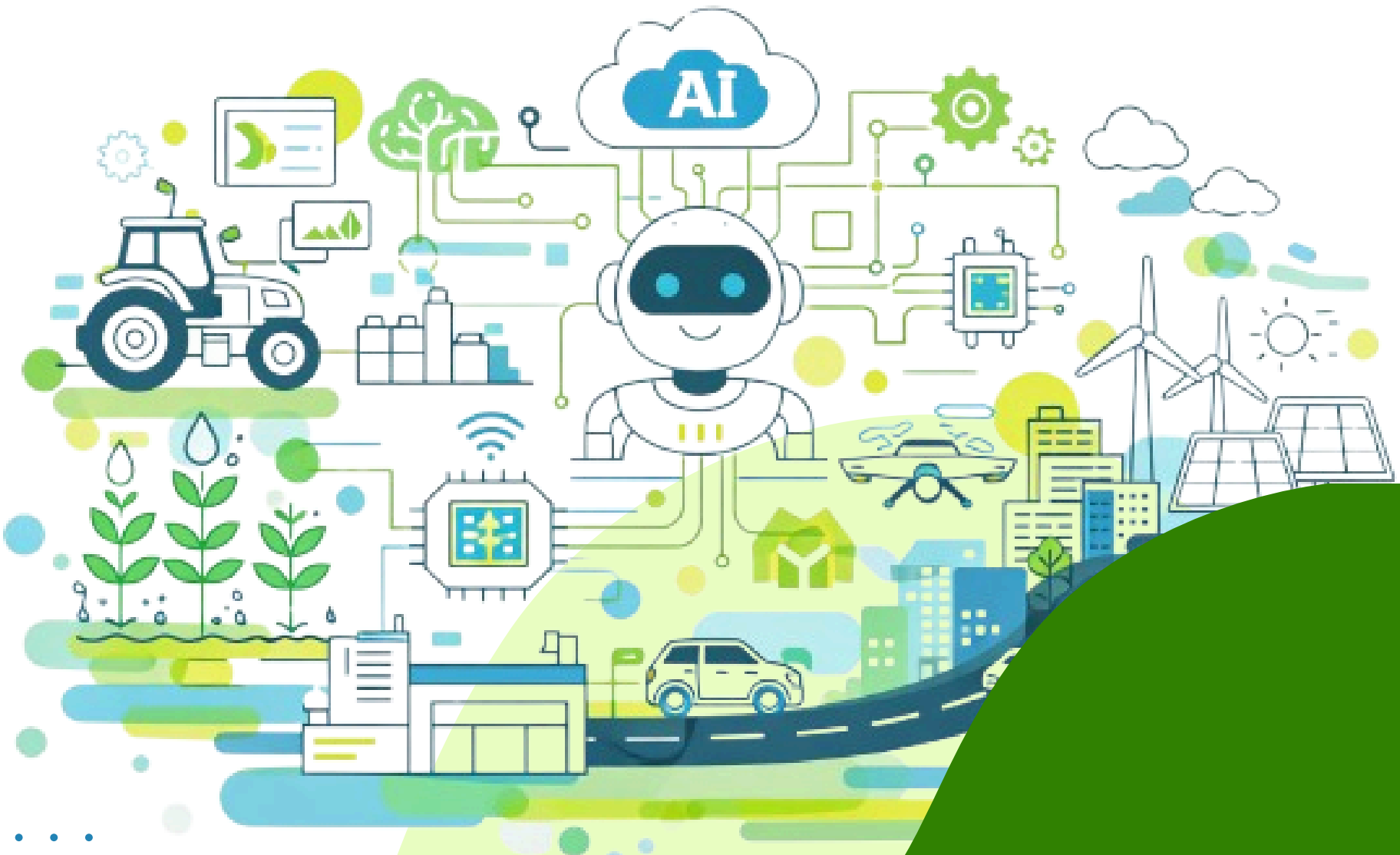
KeSEBAE

2026 ANNUAL CONFERENCE

Theme: Artificial Intelligence (AI) for the Transformation of Agriculture, Industry, Infrastructure and the Environment



Concept Note

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Nairobi, Kenya

1 INTRODUCTION AND BACKGROUND

The KeSEBAE Annual Conference is a flagship engineering event that brings together experts, students and industry leaders to explore how technology and innovation are shaping the future. Hosted every year, the conference has become a recognized platform for presenting research, exchanging practical knowledge and nurturing emerging talent in the engineering field.

The 2026 conference, themed **Artificial Intelligence (AI) for the Transformation of Agriculture, Industry, Infrastructure and the Environment,** comes at a time when Artificial Intelligence is rapidly influencing how we design systems, solve problems and build infrastructure. The event responds to this opportunity by creating a space where researchers, practitioners and students can share insights, demonstrate technologies and collectively explore what AI means for Africa's future. It offers a unique meeting point for learning, collaboration and innovation, supported by exhibitions and an industrial visit that connect knowledge to practice.

The conference programme is designed to provide a balanced mix of academic, professional and networking opportunities. Key activities include:

1. **Opening Ceremony:** Official launch of the conference and welcome remarks.
2. **Keynote Addresses**: Delivered by distinguished experts, thought leaders and industry practitioners.
3. **Paper Presentations:** Sessions where researchers and practitioners present their work, followed by discussions.
4. **Food and Drinks / Cocktails:** Networking opportunities combined with refreshments and informal entertainment.
5. **Industrial Visits:** Practical exposure to relevant industry sites and technologies.
6. **Annual General Meeting (AGM):** For society members to discuss governance, plans and key decisions.

2 PURPOSE

The KeSEBAE 2026 conference seeks to provide a platform for sharing knowledge in artificial intelligence and related innovations, promoting collaboration and ensuring that participants not only exchange insights but also the impact of AI in engineering practices and policies across industry, infrastructure, agriculture and environmental management.

3 GOALS

i. Knowledge Sharing and Advancement

- Provide a platform for presenting research, innovations and best practices in environment, agriculture, food, energy and water.
- Highlight the use of AI in emerging technologies and trends for agriculture, environment and industrial transformation.

ii. Networking and Collaboration

- Connect academics, students, industry players and policymakers.
- Promote cross-disciplinary collaboration to solve real-world challenges.

iii. Capacity Building

- Offer learning through paper presentations, workshops, discussions and industrial visits.
- Support early-career researchers and professionals to gain experience and earn Professional Development Units (PDUs).

iv. Student Mentorship

- ·Provide career guidance to student members.
- ·Offer a platform for students to share research ideas.
- ·Connect students to internship opportunities.

v. Industry Engagement and Exposure

- Showcase innovations through exhibitions and interactive sessions.
- Strengthen industry-academic linkages via industrial visits.
- Market sourcing industrial products.

vi. Policy and Practice Influence

- Engage with policy and regulatory frameworks to guide the application of AI in Engineering practice.
- Translate research into actionable solutions for industry, government and communities.

4 TARGET AUDIENCE

The conference targets a diverse audience from academia, industry and government, with a focus on students, early-career researchers and professionals in engineering, agriculture, environment, energy and related fields. The key characteristics and considerations include:

Audience Profile

- Academics, researchers and practitioners in the environment, agriculture, food, energy and water sectors.
- Students, particularly from the Environment, Biological and Agricultural Engineering Department at the University of Nairobi and other universities, seeking exposure to research and industry practices.
- Industry professionals, policy makers and engineers interested in innovations and applied solutions.
- Members of professional bodies.

5 LOCATION AND TRAVEL

The conference will be held at the **University of Nairobi, UoN Towers,** located along University Way in Nairobi. Nairobi was selected because it is a central and highly accessible location for the majority of our target participants. Directions[1], Hotel Accommodation Near the Venue[2]
We expect attendance from across the continent, including leading industry players in the relevant sectors.

[1] **Directions:** https://maps.app.goo.gl/qAvprRNmeiCi25wy6
[2] **Hotels:** Fairmont The Norfolk, Nairobi Safari Club (Swiss-Belhotel), Best Western Plus Meridian, The Sarova Stanley, The Clarion Hotel, JW Marriott Hotel and Villa Rosa Kempinski

6 REGISTRATION

- Participants typically register online www.kesebae.or.ke or via email at info@kesebae.or.ke.
- Upon registration, delegates gain access to all conference activities and receive a participation certificate, recognizing their engagement.

Category	Registration Fee
Members	KES 20,000
Non-Members	KES 25,000
International Delegates	USD 250
Virtual Participants	KES 10,000
Undergraduate Students	KES 2,000
Field Visits	KES 5,000

7 CONFERENCE THEMES AND SUB-THEMES

THEME

ARTIFICIAL INTELLIGENCE FOR THE TRANSFORMATION OF AGRICULTURE, INDUSTRY, INFRASTRUCTURE AND THE ENVIRONMENT

This theme highlights the increasing importance of AI and engineering innovations in tackling Africa's development challenges. It aims to examine how AI-powered technologies can revolutionize agriculture, industry, infrastructure, energy systems, health and environmental management across the continent.

1 Transforming Africa's Agricultural Systems through Engineering and Technology

Focus: Using AI, automation and engineering innovations to improve food production, supply chains and agribusiness.

Suggested Topics

- Precision agriculture and AI-enabled crop monitoring
- Smart irrigation systems and water management
- Robotics and mechanization for smallholder farms
- Data-driven pest and disease management
- AI in the agricultural supply chain and market optimization

2 Building Resilient Infrastructure for Sustainable Development

Focus: Engineering and AI applications for sustainable, durable and climate-resilient infrastructure.

Suggested Topics

- ·AI for predictive maintenance of roads, bridges and buildings
- ·Smart cities and IoT-enabled infrastructure management
- ·Sustainable construction materials and techniques
- ·Disaster-resilient urban planning and infrastructure
- ·Infrastructure digital twins and modelling

3 Engineering for Environmental and Climate Change

Focus: Applying engineering solutions and AI for environmental protection, resource management and climate adaptation

Suggested Topics

- AI for air and water quality monitoring
- Waste management and recycling technologies
- Climate modeling and risk assessment using AI
- Renewable energy integration and optimization
- Eco-friendly engineering practices and green technologies

4 Transformation of Africa's Energy Systems

Focus: Innovative engineering and AI approaches to modernize and optimize energy generation, distribution and consumption.

Suggested Topics

- Smart grids and AI-based energy management
- Renewable energy integration and optimization
- AI for energy efficiency in industrial and domestic settings
- Energy access solutions for rural communities
- AI-driven predictive maintenance for energy infrastructure

5 Engineering Transformation of Industry in Africa

Focus: How AI and engineering innovations can enhance industrial competitiveness, efficiency and sustainability.

Suggested Topics

- ·Industry 4.0 and AI-enabled manufacturing
- ·Automation and robotics in production processes
- ·Supply chain optimization using AI
- ·Sustainable industrial engineering practices
- ·AI applications for product design and quality control

6 Biomedical Engineering Interventions for Improvement of Africa's Health Systems

Focus: AI and engineering solutions to improve healthcare delivery, diagnostics and treatment.

Suggested Topics

- AI in medical imaging and diagnostics
- Wearable devices and remote patient monitoring
- Health informatics and predictive analytics
- Biomedical device innovation for low-resource settings
- Robotics and automation in surgical and rehabilitation processes

7 Engineering Training in the World of AI

Focus: Preparing the next generation of engineers fo AI-driven technologies

Suggested Topics

- Curriculum development for AI in engineering education
- AI tools and simulations in practical engineering training
- Capacity building for AI and data-driven engineering
- E-learning and digital platforms for engineering education
- Bridging the skills gap: AI competencies for African engineers

8 KEY DATES

APRIL 30	Abstract Submission
MAY 31	Paper Submission
JUNE 24	Payment Deadline
JUNE 24-26	Conference

9 CALL FOR PARTNERSHIPS

KeSEBAE invites industry players to partner on the Annual Conference, 2026. For partnership packages, see the attached catalogue.

GALLERY


INSTITUTE BUS
KENYA SCHOOL OF AGRICULTURE
NYERI
KenGen
EXECUTIVE

KeSEBAE

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