



Secretaría General (SG)

Ginebra, 11 de noviembre de 2025

Referencia: **CL-25/49**

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A:

- los Estados Miembros de la UIT;
- los Miembros de Sector de la UIT, los Asociados, las Instituciones Académicas de la UIT y las organizaciones internacionales, regionales y nacionales pertinentes

**Asunto: *Caleidoscopio 2026 de la UIT – La IA y las tecnologías de vanguardia para el bien*
Ginebra, Suiza (7-10 de julio de 2026)**

Muy Señora mía/Muy Señor mío,

1 En el marco de la [serie Caleidoscopio](#), me complace informarle sobre la decimosexta edición de la conferencia académica más importante de la Unión Internacional de Telecomunicaciones (UIT), que reunirá a destacados representantes de universidades, empresas e instituciones de investigación de todo el mundo. La conferencia ofrecerá una plataforma única para intercambiar ideas, establecer líneas de colaboración, compartir investigaciones de vanguardia y proponer soluciones prácticas que hagan más accesibles, inclusivas y sostenibles las tecnologías de vanguardia. La conferencia [Caleidoscopio 2026 - La IA y tecnologías de vanguardia para el bien](#) estará organizada por la [Cumbre Mundial AI for Good 2026](#) en Ginebra (Suiza) del 7 al 10 de julio de 2026.

2 *Caleidoscopio 2026* invita a presentar propuestas de investigación originales y multidisciplinarias que indaguen **de qué modo interactúan** las tecnologías de vanguardia, como **la IA, la interfaz cerebro-ordenador, la IA corporizada, la conducción autónoma y las tecnologías de información geoespacial y cuántica, con las telecomunicaciones**. Se alienta a presentar contribuciones con un claro potencial transformador, que contribuyan al diseño y la adopción de normas internacionales y que propongan soluciones innovadoras con fundamentos éticos, mundialmente inclusivas y preparadas para el futuro. Esta edición también complementa el nuevo Órgano Consultivo Académico sobre Tecnologías Incipientes de la UIT, en el que participan destacados académicos con el fin de identificar las nuevas tendencias y afianzar la conexión entre investigación, innovación y políticas.

3 La participación está abierta a todos los Estados Miembros, Miembros de Sector, Asociados e Instituciones Académicas de la UIT, así como a cualquier nacional de un Miembro de la UIT que desee contribuir a los trabajos. Se incluye en la convocatoria a las personas que también sean miembros de organizaciones nacionales, regionales e internacionales, equipos de I+D e innovadores industriales; a las empresas de nueva creación que trabajen en la intersección de las tecnologías incipientes; y a los expertos en políticas y los científicos sociales.

4 Se alienta a todos los Miembros de la UIT a promover este evento en la comunidad investigadora de sus respectivos países, incluidas las universidades, las instituciones académicas, la I+D industrial y las empresas de nueva creación.

5 Podrá encontrar toda la información relativa a la inscripción y la logística en el sitio web del evento, <https://www.itu.int/go/K-2026>, cuando se acerque la fecha de la conferencia.

Atentamente,

(firmado)

Doreen Bogdan Martin
Secretaria General

Anexo: 1

16TH ITU ACADEMIC CONFERENCE

ITUKALEIDOSCOPE

GENEVA2026

*AI and frontier
technologies for good*

7-10 July 2026
Geneva, Switzerland

Hosted by  **AI for Good**
Global Summit

ANNEX

ITU KALEIDOSCOPE

GENEVA2026

Kaleidoscope 2026: AI and frontier technologies for good is the sixteenth edition of ITU's flagship peer-reviewed academic conference, bringing together leading voices from universities, industry, and research institutions worldwide. The conference provides a unique platform to exchange ideas, establish collaboration, share cutting-edge research, and propose practical solutions that make frontier technologies more accessible, inclusive, and sustainable.

CALL FOR PAPERS

Theme

The theme of the fifteenth edition of the ITU Kaleidoscope academic conference captures the ongoing global efforts to harness the power of technology for positive and sustainable change.

The landscape of innovation and digital transformation is evolving at an unprecedented pace, influencing every aspect of our lives, and profoundly impacting global development. As we strive to achieve the SDGs and address pressing societal and environmental concerns, the role of ICTs becomes pivotal.

The conference invites contributions that delve into cutting-edge research, transformative technologies, and innovative practices that underpin the digital revolution with a focus on sustainability and standardization. From the fundamental restructuring of network infrastructures to the applications shaping sustainable development, and the enabling technologies driving these advancements, we seek to explore the multidimensional facets of innovation and digital transformation.

Objective

Kaleidoscope 2026 invites multidisciplinary, original research proposals that explore how frontier technologies, including AI, brain-computer interface, embodied AI, autonomous driving, geospatial and quantum information technologies interface with telecommunications.

We welcome submissions across three major tracks. The first is about the technical innovations themselves. The second is about applications and services built around these innovations. The third concerns the socioeconomic impact of these technologies and services, the policies that should be developed to ensure sustainable development, and the ethical considerations that should guide all the participants. We encourage submissions that demonstrate transformative potential, contribute to the design and adoption of international standards, and propose innovative solutions that are ethically grounded, globally inclusive, and future ready.

Audience

Professors and academic researchers; students and early career researchers at all levels - from undergraduate to postdoctoral; industry R&D teams and innovators; start-ups working at the intersection of emerging tech; policy experts and social scientists.

Date and venue

7 – 10 July 2026, hosted by the [AI for Good Global Summit 2026](#)

Submission of papers

Kaleidoscope 2026 welcomes submissions of original research papers using the template available on the conference's website. All papers, full and short types, will go through a double-blind peer review process. Selected full papers will be presented in plenary, while selected short papers will be presented in poster sessions. Submissions must be made electronically via EDAS: see <https://www.itu.int/go/K-2026> for more details. Paper proposals will be evaluated according to content, originality, clarity, relevance to the conference's theme and, in particular, **significance to future standards and policy**.

Paper types

Full paper (6-8 pages)

Short paper (2-4 pages)

Deadlines

Submission of full paper proposals: **15 December 2025**

Notification of paper acceptance: **16 March 2026**

Submission of camera-ready accepted papers: **13 April 2026**

Publication and presentation

Accepted and presented papers will be published in the Kaleidoscope Proceedings. In addition, extended versions of selected papers might be considered for publication in a special edition of the [ITU Journal on Future and Evolving Technologies \(ITU J-FET\)](#).

Awards

The authors of the three best papers, as selected by the Scientific and Technical Programme Committees, will be honoured with special awards. In addition, young authors of up to 30 years of age presenting accepted papers will receive Young Author Recognition certificates.

Keywords

Artificial intelligence, machine learning, embodied AI, generative AI, robotics, human-computer interaction, quantum computing, quantum networks, quantum sensing, geospatial information, geospatial AI, digital twin earth, metaverse, future mobile and wireless networks, regulation, security and privacy, education

Suggested (non-exclusive) list of topics

Track 1 Frontier technological bases in intelligent and resilient network infrastructures

- The role of machine learning to artificial intelligence in network architecture, design, operation and maintenance, for example
- The role of AI/ML in existing and future communication networks infrastructures (6G and beyond)
- Improved tools for network orchestration and traffic management
- Large Language Models (LLM), Small Language Models (SLM) and Learning Model in telecommunications, for chip design and cloud computing and research at the interface of ML and quantum computing
- New system architectures for extended reality (XR), digital twin earth, metaverse, and immersive Live Experience (ILE)
- Quantum information technologies for hybrid architectures and secure network protocols
- Design and implementation technologies for hybrid architectures and scalable quantum networks
- Transition strategies and integration of quantum-safe technologies (i.e, post –quantum cryptography and quantum key distributions) into existing networks
- Neuromorphic computing and new chip designs

Track 2 Applications and services for sustainable development

- Planning and introduction of radiocommunication networks (protocol design, verification, implementation, conformance, testing, etc)
- Network modelling, optimization, management, monitoring and maintenance (QoS, QoE, network and user security)
- Cybersecurity of network and users, privacy protection, and trust establishment in decentralized and distributed systems
- Smart transportation autonomous driving and urban mobility
- Embodied AI applications including healthcare (telemedicine, rehabilitations, assistive robotics, and assistance for the aging)
- Geospatial foundation models applications, design and development
- Location-based services and spatial registration technologies
- Sustainable smart cities and communities
- Applications of quantum technologies
- Sustainable online education, rural access and the role of AI in learning

Track 3

Social, economic,
environmental and
policy dimensions of
AI and frontier
technologies

- AI regulations, governance and ethical considerations
- Policy frameworks for safe and ethical AI development
- Ethical frameworks for responsible quantum and AI development
- Standards and regulations for sustainable development
- Intellectual property rights in the AI era
- Waste management, healthcare, environmental protection
- Societal implications of brain-computer interfaces and neurotechnology
- Leveraging AI and quantum technologies to advance research
- Quantum education: curriculum development, tools and access

Scientific Committee

Maria Antonia Brovelli, Politecnico di Milano, Italy

Christoph Dosch, Former Chairman of ITU-R Study Group 6; ARD, Germany

Emily Edwards, Duke University, United States

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Vishnu Ram OV, Independent Consultant, India

Mostafa Hashem Sherif, Consultant, United States

Hao Qin, National University of Singapore, Singapore

Technical Programme Committee

Mostafa Hashem Sherif, Consultant, United States

The Technical Programme Committee is composed of international subject-matter experts. Details are available at <http://itu.int/en/ITU-T/academia/kaleidoscope/2026/Pages/progcom.aspx>

Additional information

For additional information, please visit the conference [website](#).

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