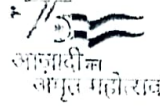


डॉ. नीरज मिश्र, भा.प्र.से.
सचिव
DR. NEERAJ MITTAL, IAS
Secretary



सत्यमेव जयते



भारत सरकार
संचार मंत्रालय
दूरसंचार विभाग
Government of India
Ministry of Communications
Department of Telecommunications

D.O. No. NTIPRIT/Kaleidoscope/DO/3
Dated 06th March, 2024

Subject: Invitation to Promote Participation in ITU Kaleidoscope 2024

Dear Chief Secretary,

I am reaching out to you to inform that the Department of Telecom is organizing Kaleidoscope - 2024, an international conference hosted by the International Telecommunication Union (ITU) in New Delhi in October 2024. The ITU Kaleidoscope 2024 conference is a platform dedicated to advancing research, innovation, and the sharing of insights on the future of telecommunications & ICT technologies, policies, and practices that contribute to sustainable development goals.

2. I kindly request your support in widely publicizing the call for papers for Kaleidoscope 2024 to the Higher Education Department and State Technical Universities to leverage their networks for disseminating information about this opportunity. Encouragements for participation can be broadcasted through official channels, websites, and direct communication with educational institutions, motivating them to champion this cause among their academic communities.

3. The themes and topics for Kaleidoscope 2024 are closely aligned with our national interests and priorities in ICT. Call For Papers document floated by ITU having details of themes and topics and also the participation details and deadlines, is attached herewith. The last date for submission of the papers is **29.04.2024**. More details about the conference are available at the link <https://www.itu.int/en/ITU-T/academia/kaleidoscope/2024/Pages/default.aspx>.

I am sure with your support, the country's talent and research prowess will be well-represented at this prestigious international forum.

Yours sincerely,

Encl: Call for Papers – ITU Kaleidoscope-2024

Receipt No. 80 Dt. 18/3/24
Deptt. _____ Branch _____
Nagaland Civil Secretariat (Neeraj Mittal)

Chief Secretaries of all States/ Administrators of all UTs

15TH ITU ACADEMIC CONFERENCE

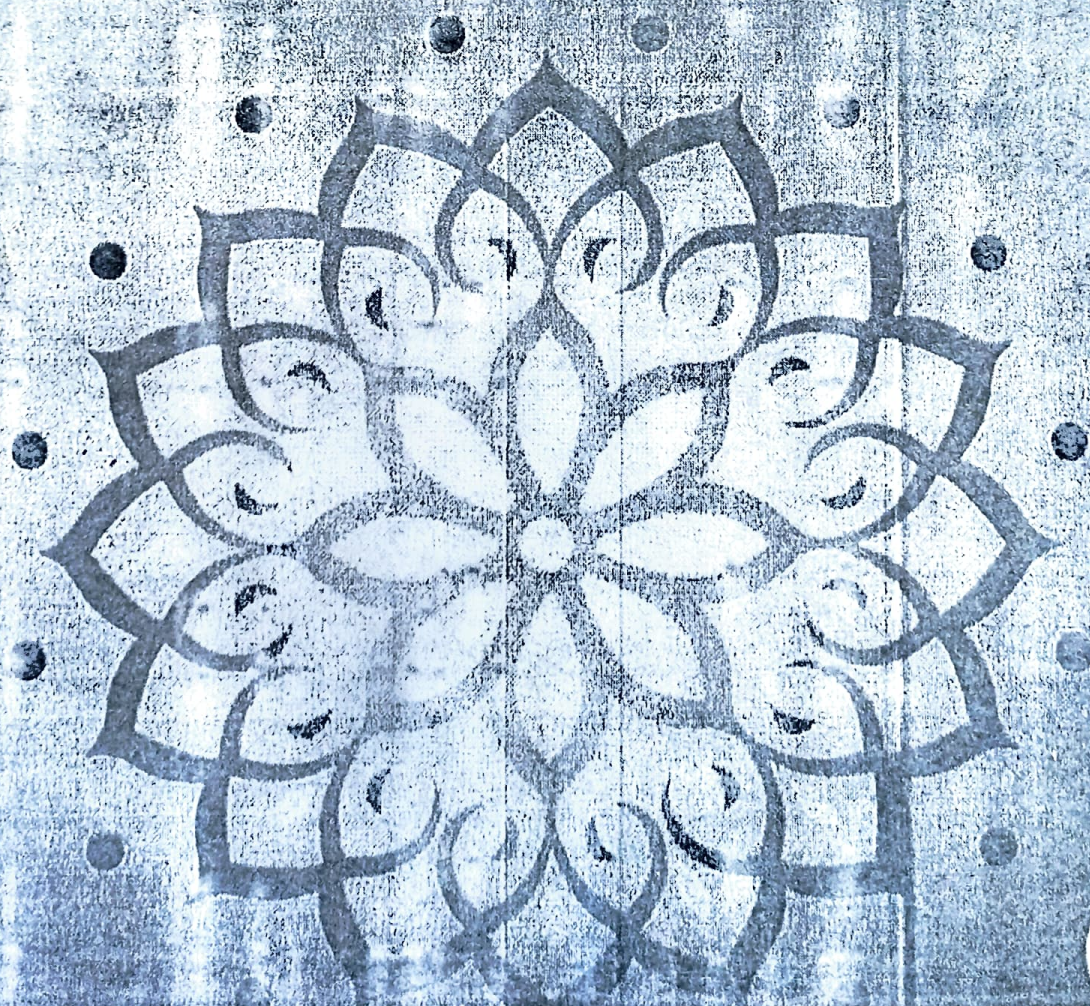
ITUKALEIDOSCOPE

NEW DELHI 2024

*Innovation and digital transformation
for a sustainable world*

21-23 October 2024
New Delhi, India

CALL FOR PAPERS



ITUKALEIDOSCOPE

NEW DELHI 2024

Kaleidoscope 2024: Innovation and digital transformation for a sustainable world is the fifteenth in a series of peer-reviewed academic conferences organized by ITU to bring together a wide range of views from universities, industry and research institutions. The aim of Kaleidoscope is to foster collaboration and discussion on emerging trends in technologies for a digital and sustainable transformation that can benefit humanity.

CALL FOR PAPERS

Preamble

The United Nations (UN) 2030 Agenda for sustainable development, which includes the 17 Sustainable Development Goals (SDGs), recognizes that *"the spread of information and communication technology and global interconnectedness has great potential to accelerate human progress, to bridge the digital divide and to develop knowledge societies, as does scientific and technological innovation across areas as diverse as medicine and energy"*.

The UN Secretary-General's vision on the future of global cooperation puts forward an upgraded UN that can offer more relevant, system-wide, multilateral and multi-stakeholder solutions to better respond to humanity's most pressing challenges, focusing significantly on innovation and digital transformation.

Sustainable digital transformation and universal connectivity are ITU's main goals, as indicated in the Union's Strategic Plan, which put forward a clear vision for *"an information society, empowered by the interconnected world, where telecommunication/information and communication technologies (ICTs) enable and accelerate social, economic and environmentally sustainable growth and development for everyone"*.

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

The fifteenth Kaleidoscope conference calls for original, academic papers exploring technological innovation and digital transformation's implications for policy, regulation, legal and ethical frameworks, the economy, and society. **Emphasis is placed on how international ICT standards contribute to achieving the UN-SDGs.**

Audience

Kaleidoscope 2024 targets specialists in the fields of ICT and socio-economic development, including researchers, academics, students, engineers, policymakers, regulators, and innovators.

Date and venue

21-23 October 2024, in conjunction with the World Telecommunication Standardization Assembly 2024 (WTSA-24), 15-24 October - www.itu.int/wtsa/2024/

Submission of papers

Submission of full, original papers should be within eight pages, including a summary and references, using the template available on the event website. All papers will go through a double-blind peer-review process. Submission must be made electronically; see <http://itu.int/go/K-2024> for more details on online submission (EDAS). Paper proposals will be evaluated according to content, originality, clarity, relevance to the conference's theme and, in particular, significance to future standards.

Deadlines

Submission of full paper proposals: **29 April 2024**

Notification of paper acceptance: **12 July 2024**

Submission of camera-ready accepted papers: **2 August 2024**

Publication and presentation

Accepted and presented papers will be published in the Conference Proceedings.

Awards

A prize fund totalling CHF 6,000 will be shared among the authors of the three best papers, as judged by the Steering and Technical Programme Committees. In addition, young authors of up to 30 years of age presenting accepted papers will receive Young Author Recognition certificates.

Keywords

Artificial intelligence, cloud computing, digital transformation, extended reality, green communications, human-oriented technologies, Internet of Things, machine learning, metaverse, mobile and wireless communications, regulation and standardization, security and privacy in cyberspace, technological innovation, UN agenda for sustainable development

Suggested (non-exclusive) list of topics

Track 1 Technology, next-generation network architectures

- Future mobile and wireless communication networks and network infrastructures (5G and beyond)
- Energy-efficient cloud computing and sustainability
- Cyber-physical systems for environmental monitoring and management
- System architectures for extended Reality (XR), metaverse, and Immersive Live Experience (ILE)
- Security, privacy, and trust in decentralized and distributed systems
- Edge computing and fog computing for real-time applications
- Machine learning and AI-driven optimization in sustainable solutions: Quality of Service (QoS), Quality of Experience (QoE) and performance
- Network resilience in disaster relief and recovery systems
- Quantum communication for secure and resilient networks
- Optical and wireless communication convergence system
- Long-distance and ultra-high-speed transmission network systems (terabit, exabit)
- Efficient communication and design in IoT and sensor networks
- Circular economy approaches in ICT waste management

Track 2 Applications and services for sustainable development

- AI-driven personalized e-services for health and well-being
- IoT applications for water quality monitoring and sanitation
- Sustainable energy services
- Smart transportation and urban mobility applications
- Data analytics for monitoring and assessing development goals
- Robotics and drones for eco-friendly applications
- Technology for aging in place and ambient assistive living
- Sustainable smart cities and communities
- Provision of adequate security and privacy services

Track 3 Enabling technologies

- Data processing, management and analytics
- Interoperability in decentralized and distributed systems
- Next-generation human-computer interaction
- Location-based services and spatial registration technologies
- Semantic computing and communications
- Service chaining, orchestration and federation
- Technology convergence: computing network convergence, IT/OT (operational technology) convergence, etc.
- Modelling and simulation for digital twins and digital humans
- Emerging AI techniques and algorithms including Generative AI
- Edge intelligence with on device AI
- Blockchain/distributed ledger technologies with incentive and consensus mechanisms
- Technologies for quality and sustainable online education
- Alternate technology options for rural connectivity
- Integration of existing mechanisms to provide for security and privacy

Track 4
Social, economic,
environmental
and policy aspects
for sustainable
development

- Standards and regulations for sustainable development and sustainable ICT solutions
- ICT strategies for sustainable development
- Regulatory mechanisms under the convergence paradigm
- Environmental Implications of cloud computing services
- Accessibility and usability in technology solutions
- Engineering education for sustainable development
- Modelling of the role of technology in society
- Intellectual property rights in the digital era
- Conformance and interoperability for global technology adoption
- Regulation to enforce adequate security and privacy mechanisms
- Generating a sustainable echo-system for the Startups

Steering Committee

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

Debkumar Chakrabarti, Ministry of Communications, India

Eva Ibarrola, University of the Basque Country, Spain

Kal Jakobs, RWTH Aachen University, Germany

Gyu Myoung Lee, Liverpool John Moores University, United Kingdom

Tiziana Margaria, University of Limerick, Ireland

Mitsuji Matsumoto, Waseda University Emeritus Professor, Japan

Roberto Minerva, Télécom SudParis, France

Vishnu Ram OV, Independent Consultant, India

Mostafa Hashem Sherif, Consultant, United States

Atul Sinha, Ministry of Communications, India

Technical Programme Committee

Mostafa Hashem Sherif, Consultant, United States

The Technical Programme Committee is composed of international subject-matter experts. Details will be available shortly at <http://itu.int/en/ITU-T/academia/kaleidoscope/2024/Pages/progcom.aspx>

Additional information

For additional information, please visit the conference website: <http://itu.int/go/K-2024>

Inquiries should be addressed to Alessia Magliarditi at kaleidoscope@itu.int