



## Secretaría General (SG)

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A: Los Estados Miembros de la UIT  
Miembros de Sector, Asociados e  
Instituciones Académicas de la UIT y  
organizaciones internacionales, regionales y  
nacionales pertinentes

Asunto: **Caleidoscopio de la UIT 2019 – TIC para la salud: Redes, normas e innovación  
Atlanta, Georgia (Estados Unidos), 4-6 de diciembre de 2019**

Muy Señora mía/Muy Señor mío,

1 Como parte de los eventos Caleidoscopio, una iniciativa de la UIT para fomentar la cooperación con las Instituciones Académicas y los centros de investigación, me complace informarle acerca de la undécima serie de conferencias que tratan de identificar los acontecimientos emergentes en las tecnologías de la información y la comunicación (TIC) y, especialmente, las áreas que requieren de normas internacionales para contribuir al desarrollo saneado de la sociedad de la información. *Caleidoscopio 2019: TIC para la salud: Redes, normas e innovación* se celebrará en el Georgia Institute of Technology, Atlanta (Estados Unidos), del 4 al 6 de diciembre de 2019.

2 *Caleidoscopio 2019* solicita ponencias académicas originales que traten de la contribución de las TIC a la innovación en la prestación de la atención de la salud y la medicina. En particular, la conferencia alienta contribuciones que hagan hincapié en el papel que han de desempeñar las redes de comunicaciones y las normas internacionales para lograr el acceso asequible a la atención de la salud para todos en todas partes. El objetivo se corresponde plenamente con los Objetivos de Desarrollo Sostenible de las Naciones Unidas. El texto íntegro de la solicitud de ponencias figura en el **Anexo 1**. Se invita a presentar las ponencias hasta el **17 de junio de 2019**.

3 La participación está abierta a los Estados Miembros, a los Miembros de Sector, a los Asociados y a las Instituciones Académicas de la UIT, y a cualquier persona de un país que sea miembro de la UIT y desee contribuir a los trabajos. Esto incluye a las personas que también sean miembros de organizaciones nacionales, regionales e internacionales. La participación en el taller es gratuita pero no se otorgará ninguna beca.

4 Alentamos a todos los Miembros de la UIT a promover este evento entre la comunidad académica de sus países.

5 En la página web del evento (<http://itu.int/go/K-2019>) se irá facilitando información detallada relativa a la inscripción y la logística a medida que se vaya aproximando la fecha de la conferencia. **Rogamos tengan presente que la preinscripción de los participantes en los talleres se efectúa exclusivamente en línea.**

6 Le recordamos que los ciudadanos procedentes de ciertos países necesitan visado para entrar y permanecer en los Estados Unidos. Cuando así sea, dicho visado debe solicitarse y obtenerse en la oficina (embajada o consulado) que representa a los Estados Unidos en su país o, en su defecto, en la más próxima a su país de partida. Se ruega a los participantes que requieran la asistencia del país anfitrión para obtener un visado de entrada que consulten la página web del Caleidoscopio en la dirección <http://itu.int/go/K-2019>. La información se publicará tan pronto esté disponible.

Atentamente,

*(firmado)*

Houlin Zhao  
Secretario General

**Anexo: 1**

## ANEXO 1

ITU Kaleidoscope 2019

***ICT for Health: Networks, standards and innovation***

**The 11<sup>th</sup> ITU Kaleidoscope academic conference**

Atlanta, United States, 4-6 December 2019

### Call for Papers

***Kaleidoscope 2019 - ICT for Health: Networks, standards and innovation*** is the eleventh 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 the Kaleidoscope conferences is to identify emerging advancements in information and communication technologies (ICTs) and, in particular, areas in need of international standards to aid the healthy development of the Information Society. This year's conference will be hosted by the Georgia Institute of Technology.

#### Theme

The World Health Organization warns that at least half of the world's population is still not fully covered by essential health services. In countries with sufficient coverage, caring for an ageing population requires significant expenditures from governments, as well as public and for-profit entities. Moreover, emergency response teams working in distress and disaster situations depend on interoperable and survivable networks and systems to effectively and efficiently rescue individuals and communities at risk.

New applications of information and communication technology (ICT) show great potential to assist in overcoming socio-economic challenges in what is being called "digital health".

Digital health is part of the "Fourth Industrial Revolution" where innovative ICT applications are mobilized to revolutionize the health sector – from the manufacturing of medical devices and systems to medical research, drug discovery and healthcare delivery – leading to increased life expectancy and a greatly enhanced quality of life.

There are many innovations in ICT that will be integrated into digital health such as 5G, machine-to-machine (M2M) communications, cloud computing, the Internet of Things (IOT), big data, artificial intelligence and machine learning, precision medicine, telemedicine and biotelemetry, etc. All these streams of technologies lead to new frontiers in health services, towards the goal of universal health coverage that is efficient and cost-effective while ensuring quality care. Digital health will place rigorous requirements on communication networks in terms of availability, reliability, survivability, and security, including stricter requirements on service quality, tighter legal protections, and a more active role on the part of public authorities.

#### Objective

*Kaleidoscope 2019* calls for original academic papers addressing ICTs' contribution to innovation in healthcare delivery and medicine. In particular, the conference encourages submissions highlighting the role to be played by communication networks and international standards in achieving affordable access to healthcare for everyone, everywhere. This objective is fully in line with the United Nations Sustainable Development Goals.

#### Audience

*Kaleidoscope 2019* targets specialists in the fields of ICT, digital health and socio-economic development, including researchers, academics, students, engineers, computer scientists, policymakers, regulators, innovators, futurists, clinicians and health practitioners.

## Date and venue

4-6 December 2019, Georgia Institute of Technology, Atlanta, Georgia, United States.

## Submission of papers

Prospective authors are invited to submit full, original papers. The submission should be within eight pages, including a summary and references, using the template available on the conference's website. All papers will go through a double-blind peer-review process. Submission must be made electronically; see <http://itu.int/go/K-2019> for more details on online submission (EDAS). Paper proposals will be evaluated based on content, originality, clarity, relevance to the conference's theme and, in particular, **significance to future standards**.

## Deadlines

Submission of full paper proposals: **17 June 2019**

Notification of paper acceptance: **23 September 2019**

Submission of camera-ready accepted papers: **14 October 2019**

## Publication and presentation

Accepted and presented papers will be published in the Conference Proceedings. In addition, extended versions of selected papers will be considered for publication in the *International Journal of Technology Marketing*, the *International Journal of Standardization Research*, or the *Journal of ICT Standardization*.

## 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

Digital health; healthcare architectures, technologies and services; policies and ethics for digital health; health data storage and protection; information and communication technologies (ICTs); standards for networks; and digital health applications.

## Suggested (non-exclusive) list of topics

<b>Track 1: Technology, network infrastructure and architecture evolution</b>	<ul style="list-style-type: none"><li>• Network availability, survivability, security, and management of privacy</li><li>• Architecture for remote medical interventions using M2M, IoT, sensor networks</li><li>• Wireless sensor and actuator networks for health applications</li><li>• Networking technologies and cloud computing for digital health</li><li>• Performance aspects, such as reliability, quality of service, and quality of experience</li><li>• Interoperability of systems and applications</li><li>• Data as a service (DaaS) for digital health, e.g. electronic health records (EHR)</li><li>• Requirements for data storage and protection</li></ul>
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<b>Track 2: ICT applications and services for health</b>	<ul style="list-style-type: none"><li>• Telemedicine, telehealth and biotelemetry</li><li>• Emergency medical care</li><li>• Medical interventions in disaster areas</li><li>• Health informatics</li><li>• Big data modelling, machine learning, artificial intelligence enabled solutions</li><li>• Cloud computing services for digital health</li><li>• Data science and analytics for smart hospitals</li><li>• Health information exchange, interoperability and data integration</li><li>• Technology, standardization and innovation for accessibility and digital health applications</li><li>• Medical decision-making</li><li>• Interventions in public health</li><li>• Precision and personalized medicine</li></ul>
<b>Track 3: Social, economic, legal, ethical and policy aspects of ICT for health</b>	<ul style="list-style-type: none"><li>• Management for electronic and virtual health cards</li><li>• Public health policies, such as inclusiveness, affordability and accessibility</li><li>• Security, privacy and trust issues</li><li>• Digital rights and identity management</li><li>• Financing digital health</li><li>• Legislative and regulatory frameworks</li><li>• Ethical issues</li><li>• Training for digital health</li></ul>

### **General Chairman**

Chaouki Abdallah, Executive Vice President for Research, Georgia Institute of Technology, United States

### **Steering Committee**

Michael Best, Georgia Institute of Technology, United States  
Christoph Dosch, ITU-R Study Group 6 Vice-Chairman; IRT GmbH, Germany  
Kai Jakobs, RWTH Aachen University, Germany  
Mitsuji Matsumoto, Waseda University Emeritus Professor, Japan  
Mostafa Hashem Sherif, Consultant, United States  
Daidi Zhong, Chongqing University, China

### **Host Committee**

Co-chairs: Michael Best and Elizabeth Mynatt, Georgia Institute of Technology, United States

### **Technical Programme Committee**

Chairman: Mostafa Hashem Sherif, Consultant, United States

The Technical Programme Committee is composed of over 60 subject-matter experts. Details are available at: <http://itu.int/en/ITU-T/academia/kaleidoscope/2019/Pages/progcom.aspx>.

### **Additional information**

For additional information, please visit the conference website: <http://itu.int/go/K-2019>. Inquiries should be addressed to Alessia Magliarditi at [kaleidoscope@itu.int](mailto:kaleidoscope@itu.int).

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