



## 总秘书处（SG）

2019年3月22日，日内瓦

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致：

- 国际电联各成员国
- ITU-T部门成员、部门准成员、学术成员和相关国际组织、区域性组织和国家组织

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事由： **2019年国际电联大视野会议：信息通信技术促进健康：网络、标准和创新**  
**2019年12月4-6日，美国佐治亚州亚特兰大**

尊敬的先生/女士，

1 大视野会议活动是国际电联为增进与学术界和研究机构的合作而开展的举措。我高兴地向您通报，将第十一次举办这一具有前瞻性的系列学术大会，目的在于确定信息通信技术（ICT）的新兴发展状况，尤其是那些需要国际标准来帮助实现信息社会卫生发展的领域。“2019年国际电联大视野会议：信息通信技术促进健康：网络、标准和创新”将于2019年12月4-6日在美国亚特兰大佐治亚理工学院（the Georgia Institute of Technology）召开。

2 2019年大视野会议正在征集原创学术论文，要求内容针对ICT对医疗保健的提供以及医学领域创新的贡献。大会特别鼓励提交强调通信网络和国际标准在实现任何地方人人可享有负担得起的医疗保健方面所发挥作用的论文。这一目标完全符合联合国可持续发展目标。论文征集函全文参见附件1。论文提交截止日期为**2019年6月17日**。

3 国际电联成员国、部门成员、部门准成员和学术机构以及愿参加此工作的来自国际电联成员国的任何个人均可参加。这里所指的“个人”亦包括作为国际、区域和国家组织成员的个人。会议不收取任何费用，但亦不发放与会补贴。

4 我们鼓励全体国际电联成员在各自国家的学术界推广此次活动。

5 此大会临近时，将在活动网页上提供有关注册和会议后勤服务方面的详细信息：<http://itu.int/go/K-2019>。请注意，此次活动参与者的预注册仅以**在线**方式进行。

6 我们谨在此提醒您，一些国家的公民需要获得签证才能入境阿根廷并逗留。在此情况下，需要向驻贵国的阿根廷代表机构（使馆或领事馆）申领签证。如贵国没有此类机构，则请向驻离出发国最近国家的此类机构申领。需要东道国帮助申办入境签证的与会者，请查询大视野会议活动网页<http://itu.int/go/K-2019>。信息将尽快发布。

顺致敬意！

[原件已签]

秘书长  
赵厚麟

附件：1件

## ANNEX 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

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| <b>Track 1:<br/>Technology,<br/>network<br/>infrastructure<br/>and architecture<br/>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:<br/>ICT applications<br/>and services for<br/>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:<br/>Social, economic,<br/>legal, ethical and<br/>policy aspects of<br/>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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