



## Secrétariat général (SG)

Genève, le 19 août 2013

Réf: **CL-158**  
**TSB/AM**

- Aux Administrations des Etats Membres de l'Union;
- Aux Membres des Secteurs de l'UIT, aux Associés de l'UIT, aux établissements universitaires participant aux travaux de l'UIT et aux organisations internationales, régionales et nationales concernées

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Objet: **Manifestation multidisciplinaire Kaléidoscope 2014 "Vivre dans un monde post-convergence – impossible sans des normes?" – Saint-Pétersbourg, Fédération de Russie, 3-5 juin 2014**

Madame, Monsieur,

1 Dans le cadre des manifestations multidisciplinaires Kaléidoscope, initiative de l'UIT visant à accroître la coopération avec les milieux universitaires et les instituts de recherche, j'ai l'honneur de vous informer de la tenue d'une sixième manifestation sous la forme d'une série de conférences validées par des spécialistes, dont l'objectif est d'améliorer le dialogue entre les universitaires et les experts exerçant des activités en matière de normalisation des technologies de l'information et de la communication (TIC). La manifestation multidisciplinaire 2014 "Vivre dans un monde post-convergence – impossible sans des normes?" aura lieu à l'Université d'Etat des télécommunications Bonch-Bruévich de Saint-Pétersbourg (SPbSUT), à Saint-Pétersbourg (Fédération de Russie), du 3 au 5 juin 2014, à l'aimable invitation de l'Administration russe.

2 Etant donné que les technologies du futur devraient être conçues pour améliorer notre qualité de vie, la manifestation Kaléidoscope 2014 mettra en avant la nécessité de disposer dans l'avenir de normes pour les services et applications TIC qui tiennent compte d'aspects des politiques socio-économiques, culturelles, éthiques et juridiques ainsi que des politiques de développement durable. Cette manifestation sera en outre l'occasion de mettre en évidence des éléments permettant d'accroître l'inclusivité de la société de l'information, en répondant aux demandes des personnes handicapées et en faisant en sorte que les normes soient accessibles à tous, quels que soient le pays et la langue.

3 Il est demandé aux universitaires dans le cadre de cette manifestation, de présenter des communications originales sur des conceptions inédites et novatrices de la recherche-développement dans le domaine des normes sur le thème de la convergence des secteurs et des technologies dans le monde d'aujourd'hui qui dépend des TIC. On trouvera dans l'**Annexe 1** le texte intégral de l'appel à contributions, qui devront être soumises avant le **25 novembre 2013**.

4 La participation à la manifestation est ouverte aux Etats Membres, aux Membres de Secteur et aux Associés de l'UIT ainsi qu'aux établissements universitaires et à toute personne issue d'un Etat Membre de l'UIT qui souhaite contribuer aux travaux. Il peut s'agir de personnes qui sont aussi membres d'organisations internationales, régionales ou nationales. La participation à la manifestation est gratuite et aucune bourse ne sera accordée.

5 Parallèlement aux séances d'exposés et de présentations qui constitueront le programme de la manifestation 2014, une exposition sera organisée à l'Université, pour permettre aux représentants du secteur privé - spécialistes de la normalisation des TIC - et aux universitaires de faire part de leurs idées et d'échanger sur les projets en cours dans les milieux universitaires russes.

6 Nous encourageons tous les membres de l'UIT à faire connaître ces manifestations aux membres de la communauté universitaire de leurs pays respectifs.

7 Des informations détaillées sur l'inscription et les dispositions pratiques seront affichées sur la page web de la manifestation: <http://www.itu-kaleidoscope.org/2014> à l'approche de la conférence. **Veillez noter que l'inscription préalable des participants aux ateliers s'effectuera exclusivement en ligne.**

8 Nous vous rappelons que, pour les ressortissants de certains pays, l'entrée et le séjour en Fédération de Russie, sont soumis à l'obtention d'un visa. Ce visa doit être demandé et obtenu auprès de la représentation de la Fédération de Russie (ambassade ou consulat) dans votre pays ou, à défaut, dans le pays le plus proche de votre pays de départ. Les participants qui ont besoin de recevoir une assistance du pays hôte pour obtenir un visa d'entrée sont priés de consulter la page web de la manifestation à l'adresse suivante: <http://www.itu-kaleidoscope.org/2014>. Des renseignements y seront publiés dès qu'ils seront disponibles.

Veillez agréer, Madame, Monsieur, l'assurance de ma considération distinguée.

[signé]

Dr Hamadoun I. Touré  
Secrétaire général

**Annexe: 1**

ANNEX 1  
(to Circular 158)

**Living in a converged world – impossible without standards?**

The 6<sup>th</sup> ITU Kaleidoscope academic conference

3-5 June 2014, St. Petersburg, Russian Federation

**Call for Papers**

**Kaleidoscope 2014: *Living in a converged world - impossible without standards?*** is the sixth in a series of peer-reviewed academic conferences organized by ITU that bring together a wide range of views from universities, industry and research institutions. The aim of Kaleidoscope conferences is to identify emerging developments in information and communication technologies (ICTs) and, in particular, areas in need of international standards to support the development of successful products and services.

Given the belief that future technologies should be designed to enhance quality of life, Kaleidoscope 2014 will highlight the need for future standards for ICT services and applications to take into account aspects of socio-economic, cultural, ethical, legal and sustainable-development policy. The event will also pinpoint aspects to increase the inclusivity of the Information Society; addressing the demands of people with disabilities, and the need for standards to be accessible to people of different countries and languages.

Recognizing the steadily growing role of ICT in other social and economic sectors and the resulting challenges for global standards makers, ITU has begun forming partnerships with organizations not traditionally part of the ICT ecosystem in the interests of developing global standards tailored to new ICT-enabled services in other industry sectors.

For example, the development of successful standards for intelligent transport systems (ITS) demands the input of automobile manufacturers. Initially located at the intersection of automotive and ICT, today's ITS involve stakeholders from many other sectors, such as utilities (in the context of electromobility) and health and insurance (in the context of road safety).

Standards for e-health require the participation of the healthcare ecosystem. Health services and systems are changing to reflect the need for improvements in the quality, safety and accessibility of healthcare. E-health, the use of ICTs in healthcare, continues to demonstrate its immense value in enabling these changes.

Developing ICT standards for mobile money transfer, mobile payment and mobile banking services needs the involvement of banks. Effective standardization in the smart grid field will similarly require the participation and endorsement of power utilities.

Kaleidoscope 2014 will explore this new paradigm, looking at how the standards can bring these different worlds together and evolve in line with ensuing industrial and technological convergence. The standards development processes capable of meeting the challenges introduced by convergence will be ones that provide open, inclusive processes to attract key players from different industry sectors, public-sector entities and academic and research institutes.

*Living in a converged world - impossible without standards?* is calling for original academic papers offering bold, innovative approaches to research and development of standards on the subject of industries' and technologies' convergence in today's ICT-dependent world.

**Audience**

Kaleidoscope 2014 is targeted at all specialists with a role in the field, including researchers, academics, students, engineers, policy-makers and regulators, innovators and futurists from around the world.

## Date and venue

3-5 June 2014, Bonch-Bruевич Saint-Petersburg State University of Telecommunications (SPbSUT), St. Petersburg, Russian Federation

## Submission of papers

Prospective authors, from countries that are members of ITU, are invited to submit complete, original papers with a maximum length of 4,500 words within eight pages including summary and references, using the template available on the event website. All papers will be reviewed through a double-blind, peer-review process and handled electronically; see <http://itu-kaleidoscope.org/2014> for the 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: **25 November 2013**

Notification of paper acceptance: **17 February 2014**

Submission of camera-ready accepted papers: **3 March 2014**

## Publication and presentation

Accepted papers will be presented during the event and published in the proceedings and in IEEE Xplore. The best papers will be evaluated for potential publication in *IEEE Communications Magazine*. In addition, selected papers will be considered for publication in the *International Journal of Technology Marketing* or the *International Journal of IT Standards & Standardization Research*.

## Awards

A prize fund totaling \$10,000 will be granted to the three best papers, as judged by the Steering and Technical Programme Committees. In addition, young authors presenting accepted papers will receive a Young Author Recognition certificate.

## Keywords

Information and communication technologies (ICTs), converging technologies, human-oriented technologies, technological innovation, standardization, radio spectrum, ambient intelligence, smart grid, mobile banking services, ubiquitous networks, internet of things, M2M, e-applications, information society, ethics, sustainability.

## Suggested (non-exclusive) list of topics

### Track 1: Technology and architecture evolution in a converged world

- Billing and charging for converging services
- Business process management and optimization in convergent networks
- Communications for smart grid
- Cooperation and convergence of networks
- End-to-end quality of service support
- Enterprise integration and service-oriented architecture
- Environmental and biometric actuators and sensors in convergent services
- Human-centric, cognitive and context-aware systems
- Machine-to-machine communication, Internet of Things, and Internet of Everything
- Mobility and nomadicity
- Monitoring, tracking convergence system
- Nanonetworks
- Near-field communications (personal area network, body area network, etc.)
- Network convergence (heterogeneous network system)
- Network functions virtualization and software defined networks
- Network support for converging services
- New transmission network systems (terabit, petabit, exabit)
- Optical wireless convergence system (LD-LED optical device convergence)

- Pervasive and trusted network and service infrastructure
- Protocol architecture convergence and interoperability
- Security and privacy-enhancing technologies
- Vehicle and infrastructure convergence
- Virtual and real network convergence
- Wireless sensor networks

### **Track 2: ICT applications and services for converging worlds**

- Accessibility - ageing and ambient assistive living
- Augmented reality and technology intelligence
- Autonomous vehicles and vehicle communications
- E-agriculture
- E-learning and e-science
- Energy efficiency/use cases of smart grid
- Home entertainment hubs
- Innovative applications and content delivery (IPTV, games, etc.)
- Location-based services
- Mobile banking services: mobile payments and mobile money transfer
- Mobile robots
- New models for health-care (e-health, m-health, tele-health, telemedicine, etc.)
- Service convergence
- Service layer requirements
- Smart cities: utilities, transport, buildings and homes
- Social networking services and convergence
- Television and video services (3D video image communication)
- XaaS (Anything as a Service)

### **Track 3: Social, economic and policy aspects of ICT for converging worlds**

- Accessibility and usability
- Business models (including accounting, billing and charging)
- Crowdsourcing and service convergence
- Deployment of smart grids in developing countries
- Digital journalism
- Digital rights and identity management
- Education about Standardization
- Environmental sustainability
- E-government and e-democracy
- Ethical issues
- Inclusiveness, affordability and equal access
- Internationalization and localization
- Legislative and regulatory frameworks
- Network neutrality
- Regulation (for QoS, network sharing, etc.)
- Security, confidentiality and privacy
- Societal impact
- Stakeholder perceptions in standards
- Standardization and innovation management
- Standardization, innovation and convergence
- Standards in healthcare services

## General Chairman

Sergey Bachevsky (Rector, Bonch-Bruевич Saint-Petersburg State University of Telecommunications (SPbSUT), Russian Federation)

## Steering Committee

- Christoph Dosch (ITU-R Study Group 6 Chairman; IRT GmbH, Germany)
- Kai Jakobs (RWTH Aachen University, Germany)
- Mostafa Hashem Sherif (AT&T, USA)
- Mitsuji Matsumoto (Waseda University, Japan)
- **Host Committee**
  - Chairman: Rashid Ismailov (Ministry of Telecom and Mass Communications, Russian Federation)
  - Valery Butenko (Radio Research and Development Institute (NIIR), Russian Federation)
  - Vladimir Vasiliev (St. Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO), Russian Federation)
  - Artem Adjemov (Moscow Technical University of Communications and Informatics (MTUCI), Russian Federation)
  - Alexey Vasiliev (Central Science Research Telecommunication Institute (ZNIIS), Russian Federation)
  - Natalia Timofeeva (Ministry of Telecom and Mass Communications, Russian Federation)
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  - Georgy Mashkov (SPbSUT, Russian Federation)
  - Sergey Dotsenko (SPbSUT, Russian Federation)
  - Oleg Zolotokrylin (SPbSUT, Russian Federation)
  - Andrey Koucheryavy (SPbSUT, Russian Federation)

## Technical Programme Committee

Chairman: Kai Jakobs (RWTH Aachen University, Germany)

The Technical Programme Committee is composed of over 100 subject matter experts worldwide. Details are available at <http://www.itu.int/ITU-T/uni/kaleidoscope/2014/progcom.html>

## For additional information

Additional information is available on the conference website: <http://itu-kaleidoscope.org/2014>. Inquiries should be addressed to [kaleidoscope@itu.int](mailto:kaleidoscope@itu.int)

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