ITU Kaleidoscope 2015
Trust in the Information Society

The 7th ITU Kaleidoscope academic conference

Barcelona, Spain, 9-11 December 2015
Call for Papers

Kaleidoscope 2015: Trust in the Information Society is the seventh 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 developments in information and communication technologies (ICTs) and, in particular, areas in need of international standards to aid the healthy development of the Information Society.

The 'Connect 2020' framework embedded in ITU's Strategic Plan elaborates a guiding vision for the future development of the Information Society, focusing on inclusive and sustainable growth of the ICT ecosystem.

Kaleidoscope 2015: Trust in the Information Society will analyze means of building information infrastructures deserving our trust. The event will highlight ideas and research that will help ensure the Information Society's growth in inclusivity and sustainability thanks to its trusted foundations.

ICT is the common thread tying together all walks of life. It is at the heart of innovation in areas as diverse as energy management, transportation, healthcare, education and financial services, and 'always-on' network access has been a welcome driver of economic growth and social development. The ICT ecosystem has become a facility we can no longer do without, making it essential to ensure that users of ICTs may trust in the Information Society.

Concerns continue to grow around what has been dubbed the "darker side" of the Information Society. All industry sectors are expected to deploy technologies under the banner of IoT, and the interconnection of all types of objects – from vehicles to streetlights and household appliances – gives rise to unprecedented implications for data security, the reliability of critical infrastructure and the privacy and safety of the world's citizens. Given the borderless nature of the network, addressing concerns around security is not only a national priority; it is inherently global.

A more comprehensive approach to security is required, taken in a view of the entire digital ecosystem. Kaleidoscope 2015 will provide a platform to analyze the notion of "trust" in the ICT context as well as innovations embedding trust into ICT ecosystems and infrastructures to bring greater certainty, confidence and predictability to our interactions within the Information Society.

Kaleidoscope 2015: Trust in the Information Society calls for original research papers offering bold, innovative approaches to the research into and development of standardized platforms for the benefit of all, in particular underserved communities and citizens of developing countries. A key point will be the identification of the main challenges still to be addressed to develop standards supporting the development of trust-worthy information infrastructures.

The 2015 edition of Kaleidoscope will contribute to the celebration of ITU's 150th anniversary, which will be a tribute to the extraordinary innovation of the global ICT community. The story of ITU is one of international cooperation among governments, industry players, civil society, academia and research institutes. ITU has a proud history as a key platform for the international community to bring cohesion to innovation in the ICT sector, and Kaleidoscope 2015 will celebrate academia's immense contribution in service of ITU's mission to 'Connect the World'.

Audience

Kaleidoscope 2015 targets specialists in the fields of ICT and socio-economic development, including researchers, academics, students, engineers, policymakers, regulators, innovators and futurists.

Date and venue

9-11 December 2015, Universitat Autònoma de Barcelona, Barcelona, Spain

Submission of papers

Prospective authors from ITU Member States are invited to submit full, original papers with a maximum length of 4,500 words. The submission 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-2015** 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**.

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Deadlines

Submission of full paper proposals: *6 July 2015*

Notification of paper acceptance: *18 September 2015*

Submission of camera-ready accepted papers: *9 October 2015*

Publication and presentation

Accepted and presented papers will be published in the Conference Proceedings and submitted for inclusion in IEEE *Xplore*. The best papers will also be evaluated for potential publication in IEEE Communications Magazine. In addition, updated versions of selected papers will be considered for publication in the International Journal of Technology Marketing, the International Journal of IT Standards & Standardization Research, or the Journal of ICT Standardization.

Awards

A prize fund totaling USD 10,000 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

Information and communication technologies (ICTs), standards, standardization, technological innovation, information society, converging technologies, ubiquitous networks, internet of things, trustworthiness, security, privacy, reliability.

Suggested (non-exclusive) list of topics

Track 1: Trust in technology and network infrastructure

- Pervasive and trusted platforms and infrastructure
- Virtualization of resources including network functions virtualization and software-defined networking
- Future mobile infrastructure: 5G and beyond
- Architecture considerations for seamless mobility
- Architecture for machine-oriented communications such as M2M, IoT, sensor networks
- Security-, privacy-, and trust-enhancing technologies
- Trustworthy infrastructure for content delivery networks
- Enterprise integration and service-oriented architecture
- Human-centric, cognitive and context-aware systems and functions
- Quality of service, quality of experience, quality of security service
- Protocol architecture convergence and interoperability

Track 2: Trustworthy applications and services

- Trust in ubiquitous applications and services: connected vehicles, healthcare, homes, etc.
- Trust in cloud computing
- Privacy, trust and big data
- Trustworthiness in social networking services and social media
- Emerging video services and applications
- Trustworthy location-based services
- Digital financial services
- Artificial intelligence and deep learning
- Augmented and virtual reality
- Robots and drones

Track 3: Social, economic and policy aspects of trustworthy ICTs

- Strategies and policies enabling an information society
- Actors, value chains and business models in an information society
- Rights and responsibilities of connected citizens
- Conformance and interoperability aspects
- Deployment strategies and scenarios for trustworthy applications and services in developing countries
- Adoption of ICTs to enhance environmental sustainability
- Inclusiveness, affordability and equal access
- Harmonization strategies for international, regional and national standards and de-facto standards
- Policy issues raised by over-the-top services
- Network neutrality and trustworthiness
- Societal impact of ICTs
- Education about standardization

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The Technical Programme Committee is composed of over 150 subject-matter experts. Details are available at: **http://itu.int/go/K-2015-progcom**

Additional information

For additional information, please visit the conference website: **http://itu.int/go/K-2015**

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