

International Telecommunication Union

ITU Kaleidoscope 2013

# Building Sustainable Communities

Kyoto, Japan, 22-24 April 2013



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# Building Sustainable Communities

The 5<sup>th</sup> ITU Kaleidoscope academic conference

22–24 April 2013, Kyoto, Japan

## Call for Papers

Kaleidoscope 2013 **Building Sustainable Communities** is the fifth in a series of peer-reviewed academic conferences organized by ITU that brings together a wide range of views from universities, industry and research institutions of different fields. The aim of Kaleidoscope conferences is to identify emerging developments in Information and Communication Technologies (ICTs) at an early stage to generate successful products and services through the development of international and open standards.

Future technologies should be designed to enhance the quality of human life. Kaleidoscope 2013 will, therefore, highlight multidisciplinary aspects of future ICTs including future services and applications demand as well as socio-economic, cultural, ethical, legal, and sustainable development policy aspects of communities of the future.

ICTs can be used as a catalyst for transforming life to meet the challenges of the new millennium, including global economic and financial crises, high unemployment rates, accessibility issues, global diseases, food availability and distribution, climate change, environmental disasters, energy consumption, transport systems, safety, security, and welfare.

Sustainable communities will combine human-oriented technologies and human values.

Besides technical issues, building sustainable communities also raises ethical concerns such as responsibility for future generations and for the environment, as well as for data and information privacy. Therefore, an improved understanding of technology, its suitable application, and a high consideration of its potential consequences are necessary.

To address these issues, and for a co-evolution of technology and sustainable communities, standards are indispensable. Developing these standards will require concerted global efforts by inter-sectoral stakeholders. This conference will help to further such collaborations.

**Building Sustainable Communities** is calling for original academic papers offering innovative and bold approaches in research and development to build smart, ethical, and sustainable communities.

### Audience

Kaleidoscope 2013 is targeted at all specialists with a role in the field, including researchers, academics, students, engineers, policy-makers and regulators, innovators and futurists from all over the world.

### Date and venue

22–24 April 2013, Kyoto, Japan

### 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/2013> 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: **10 September 2012**

Notification of paper acceptance: **12 November 2012**

Submission of camera-ready accepted papers: **3 December 2012**

### 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

Awards of USD 5k, 3k and 2k will be granted to selected 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.

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## Technical Programme Committee

Chairman: Kai Jakobs (RWTH Aachen University, Germany)

The Technical Programme Committee is composed of over 100 subject matter experts worldwide.

Full details are available at <http://www.itu.int/ITU-T/uni/kaleidoscope/2013/progcom.html>

## Keywords

Information and Communication Technologies (ICTs), human-oriented technologies, technological innovation, standardization, ambient intelligence, ubiquitous networks, Internet of Things, M2M, e-applications, information society, ethics, sustainability, environment.

## For additional information

Additional information is available on the conference website: <http://itu-kaleidoscope.org/2013>.

Inquiries should be addressed to [kaleidoscope@itu.int](mailto:kaleidoscope@itu.int)

## Suggested (non-exclusive) list of topics

### Track 1: Technology and architecture evolution

- Long-distance and ultra-high-speed transmission network systems (terabit, exabit)
- Disaster relief systems, network resilience and recovery
- Wireless sensor networks
- Optical wireless communication
- Human-centric, cognitive and context-aware systems
- Machine-to-machine communication and Internet of Things

- Body-area networks
- Near-field communications
- Environmental and biometric actuators and sensors
- Security and privacy-enhancing technologies
- Pervasive and trusted network and service infrastructure
- Mobility and nomadicity
- Adaptive antenna techniques

### Track 2: ICT applications and services for sustainable communities

- e-government and e-democracy
- e-learning and e-science
- e-agriculture
- e-health and telemedicine
- Ageing and ambient assistive living
- Smart cities: utilities, transport, buildings and homes
- Innovative applications and content delivery (IPTV, games, etc.)
- Mobile payment and money transfer
- Augmented reality and technology intelligence
- Location-based services
- Service layer requirements
- XaaS (Anything as a Service)
- QoS for differentiated source
- Location services

### Track 3: Social, economic and policy aspects of ICT in sustainable communities

- Digital rights and identity management
- Societal impact
- Legislative and regulatory frameworks
- Security, confidentiality and privacy
- Accessibility and usability
- Business models (including accounting, billing and charging)
- Standardization models
- Network neutrality
- Inclusiveness, affordability and equal access
- Internationalization and localization
- Environmental sustainability
- Ethical issues
- Regulation (for QoS, network sharing, etc.)
- Standardization and innovation management
- Stakeholder perceptions in standards
- Standards in healthcare services

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