

The fully networked human?

– Innovations for future networks and services –

ITU Kaleidoscope academic conference

12–14 December 2011, Cape Town, South Africa

Call for Papers

Kaleidoscope 2011 **The fully networked human?** – *Innovations for future networks and services* – is the fourth in a series of peer-reviewed academic conferences organized by ITU that brings together a wide range of ideas and views from universities, industry and research institutions of different fields. The previous editions were held in Switzerland, Argentina and India. The aim of Kaleidoscope 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.

ICTs have already changed the way we live, work, learn, think and communicate. Ever smaller and smarter sensors proliferate, wireless networks are omnipresent, and smartphones are abundant. In the future, the impact of ICTs will be further amplified through the increasing deployment of ubiquitous/pervasive/human-centric computing and ambient intelligence. In this environment, the user is placed at the center, and virtualized networks, other IT resources, services and applications are adaptively and automatically configured to support the users in carrying out their everyday life activities.

Besides many technical issues to be addressed, this also raises serious questions about access to ICTs, privacy, interoperability and sustainability. Future technologies should be designed to benefit humans, not the other way round. To address these issues, standards are indispensable. Developing these standards will require concerted efforts by many stakeholders, including relevant UN agencies. This conference shall help to further such collaborations.

The fully networked human? – *Innovations for future networks and services* is calling for original academic papers offering innovative and bold approaches in research and development to integrate the real and the digital worlds.

Audience

Kaleidoscope 2011 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

12–14 December 2011, Cape Town, South Africa

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/2011> for the online submission (EDAS).

Deadlines

Submission of full paper proposals: **15 May 2011**

Notification of paper acceptance: **30 July 2011**

Submission of camera-ready accepted papers: **10 September 2011**

Publication and presentation

Accepted papers will be presented during the event, published in the proceedings and in IEEE Xplore. The best papers will be evaluated for potential publication in IEEE Communications Magazine.

Awards

Awards of USD 5k, 3k and 2k will be granted to selected best papers, as judged by the organizing and programme committees. In addition, young authors presenting accepted papers will receive a Young Author Recognition certificate.

General Chair

Mostafa Hashem Sherif (AT&T, US)

Organizing Committee

Chairman: Mostafa Hashem Sherif (AT&T, US)

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Programme Committee

Chairman: Kai Jakobs (RWTH Aachen University, DE)

The Programme Committee is composed of over 100 subject matter experts worldwide. Details are available on the conference website.

Keywords

Information and communication technologies (ICTs), human-centric design, technological innovation, standardization, ambient intelligence, ubiquitous networks, internet of things, e-applications, information society.

For additional information

Additional information is available on the conference website:

<http://itu-kaleidoscope.org/2011>

Inquiries should be addressed to kaleidoscope@itu.int

Suggested (non-exclusive) list of topics

Track 1: Technology and architecture evolution

- Human-centric, cognitive and context-aware systems
- System integration
- Body-area networks
- Near-field communications
- Environmental and biometric actuators and sensors
- Robotics and humanoids
- Embedded systems and real time systems
- Privacy-enhancing technologies
- Ambient intelligence
- Smartphones, handsets, appliances and terminals
- Interface technologies
- Pervasive and trusted network and service infrastructure
- Mobility and nomadicity

Track 2: Applications and services

- 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.)
- Virtual communities, lifelogs and social networking services
- Mobile payment and money transfer
- Augmented reality and technology intelligence
- Location-based services
- Digital rights and identity management
- User-centric data mining
- Open Service Interfaces
- XaaS (Anything as a Service)

Track 3: Social, economic and policy aspects of human-centric systems

- Societal impact
- Legislative and regulatory frameworks
- Security, confidentiality and privacy
- Innovative key management and identification schemes
- Accessibility and usability
- Business models (including accounting, billing and charging)
- Prospective roles for ITU and other intergovernmental organizations
- Standardization models
- The role of conformance and interoperability
- New approaches to innovation
- Network neutrality
- Inclusiveness, affordability and equal access
- Internationalization and localization
- Environmental sustainability

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