

# Innovations for Digital Inclusion

Technically co-sponsored by the IEEE Communications Society

31 August–1 September 2009, Mar del Plata, Argentina

## Second Call for Papers

*Innovations for Digital Inclusion* is the second in a series of peer-reviewed academic conferences that aims at increasing the dialogue between experts working on the standardization of information and communications technologies (ICT) and academia. By viewing technologies through a *Kaleidoscope*, these forward-looking events will also seek to identify new topics for standardization.

No industry undergoes faster changes than the ICT industry. With this in mind, how will ICT standardization promote digital inclusion? Innovative technologies can turn the “digital divide” into a “digital opportunity” bringing the benefit of ICTs to all segments of the population, in particular those in underserved communities and developing countries.

Future applications and services have the potential to build the ubiquitous society, and the infrastructure is central in achieving digital inclusion. This will enable universal, sustainable, ubiquitous and affordable access to ICTs by all. This Kaleidoscope event is calling for original academic papers offering innovative approaches addressing this challenge.

### Background

The World Summit on the Information Society (WSIS), Geneva 2003 – Tunis 2005, committed to turning the digital divide into digital opportunity and declared a “... *commitment to build a people-centred, inclusive and development-oriented Information Society, where everyone can create, access, utilize and share information and knowledge, enabling individuals, communities and peoples to achieve their full potential...*”.

Since ITU is committed to connecting the world, the Standardization Sector has chosen digital inclusion as the theme for this Kaleidoscope event.

### Audience

*Innovations for Digital Inclusion* is targeted at all researchers, academics, students, engineers, regulators and thinkers who look into the future.

### Date and venue

31 August – 1 September 2009, Mar del Plata, Argentina.

### Submission of papers

Prospective authors are invited to submit complete, original papers with a maximum length of 4500 words within eight pages, including summary and references, using the template on the event website. All papers will be reviewed through a double-blind, peer-review process and handled electronically; see [www.itu.int/ITU-T/uni/kaleidoscope/2009](http://www.itu.int/ITU-T/uni/kaleidoscope/2009) for the online submission (EDAS). The main themes are suggested in the list of topics. The deadlines for paper submission are highlighted below.

### Deadlines

Submission of full paper proposals: 15 January 2009

Notification of paper acceptance: 15 April 2009

Submission of camera-ready accepted papers: 15 May 2009

### Publication and presentation

Accepted papers will be presented during the event, published in the proceedings and made available through the IEEE Xplore. The best papers will be invited for evaluation for potential publication in the 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, authors presenting accepted papers who have not yet received a PhD title will also receive a young author recognition certificate.

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### Keywords

Access, accessibility, applications, behaviour and life style changes, climate neutrality, connecting the world, digital divide, digital inclusion, economics of standardization, energy savings, fixed-mobile convergence, ICTs and climate change, ICTs and food security, ICTs and global greenhouse gas (GHG) emissions, information and communication technologies (ICT), innovative technologies, Internet Protocol (IP), Internet, interoperability, IPTV, marginalized communities, mitigation of climate change, mobility, multilingualism, multimedia, network infrastructure, next-generation networks (NGN) and beyond, object to object communication, Quality of Service (QoS), security, standardization research, services, telecommunication, ubiquitous sensor networks (USN), ubiquitous societies, virtual communities, voice over IP.

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### For additional information

Additional information can be found at the event website:

[www.itu.int/ITU-T/uni/kaleidoscope/2009](http://www.itu.int/ITU-T/uni/kaleidoscope/2009)

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

### Suggested (non-exclusive) list of topics

#### Track 1: Architecture evolution to foster digital inclusion

- Evolution of NGN architecture to achieve digital inclusion
- Open-service interfaces, service interaction and interoperability in future scenarios
- Interworking of advanced services between legacy networks and NGN
- Seamless handover, multihoming and mobility
- Converged multimedia emergency communications
- Future packet-based, ultra-high-speed transport networks
- Advanced network security, network identification, biometrics, localization techniques and USN
- Digital rights management
- NGN and the next-generation Internet

#### Track 2: Applications and services in the inclusive ubiquitous society

- Enhancing telecoms accessibility for all
- Broadcasting, multicasting, unicasting and peer-to-peer in NGN: IPTV, interactive TV, mobile TV, and others
- Guaranteed QoS in end-to-end, inter-provider real-time multimedia services
- Innovative multimedia applications and content delivery using all-IP converged fixed/mobile
- Future virtual communities and social networking services
- New programming models and service creation
- Creative combinations of web and network services
- Services and experiences using location, presence, context awareness and personalization
- Advanced smart terminals
- NGN-enabled public services, e.g. telemedicine and distance learning
- ICT recycling and waste reduction

#### Track 3: Social, economic and policy issues to achieve digital inclusion

- How to turn the digital divide into digital opportunity
- ICTs as an enabling technology to mitigate climate change in all sectors
- New ICT technologies and their impact on GHG emissions in the sector
- Evolution of legislative and regulatory frameworks towards inclusive converged networks
- Security and ubiquity: what's the right balance?
- NGN standardization: stifling or encouraging innovation?
- Business models for the information society (including accounting, billing and charging)
- Analysis of NGN standardization processes
- Economics of NGN standardization
- Societal impact of NGN and of virtual, collaborative environments

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