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| **Bureau de la normalisation des télécommunications** | **logo_F_** |
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Genève, le 12 février 2010

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| Réf.: | **Circulaire TSB** **91**  TSB Kaleidoscope/SP | - Aux administrations des Etats Membres de l'Union;  - Aux Membres du Secteur UIT-T;  - Aux Associés de l'UIT-T; |
| Tél.: Fax: E-mail: | +41 22 730 5858 +41 22 730 5853 [kaleidoscope@itu.int](mailto:kaleidoscope@itu.int) | **Copie**:  - Aux Présidents et Vice-Présidents des Commissions d'études de l'UIT‑T;  - Au Directeur du Bureau de développement des télécommunications;  - Au Directeur du Bureau des radiocommunications |

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| Objet: | **Au-delà de l'Internet? - Innovations pour les réseaux et les services de demain**  **Une manifestation multidisciplinaire de l'UIT‑T Lonavala (Inde), 13-15 décembre 2010** |

Madame, Monsieur,

1 Dans le cadre des manifestations multidisciplinaires, initiative de l'UIT‑T visant à accroître la coopération avec les milieux universitaires et les instituts de recherche, j'ai l'honneur de vous informer, d'une part, de la tenue d'une troisième manifestation sous la forme d'une série de conférences validées par des spécialistes, dont l'objectif est d'améliorer le dialogue entre les milieux universitaires et les experts exerçant des activités en matière de normalisation des technologies de l'information et de la communication (TIC) et, d'autre part, de l'annonce d'un appel à contributions. **La** **manifestation multidisciplinaire 2010 "*Au-delà de l'Internet? - Innovations pour les réseaux et les services de demain*"**aura lieu à Lonavala (Inde), du 13 au 15 décembre 2010 inclus, à l'aimable invitation de l'Administration indienne.

2 Cette manifestation sera l'occasion de mettre en évidence les aspects multidisciplinaires des TIC de demain, sur la base de contributions soumises par des universités, les professionnels du secteur et des établissements universitaires du monde entier. L'accent sera mis sur les technologies innovantes et leurs incidences sur l'évolution des architectures, des services et des applications de l'Internet, ainsi que sur les problèmes d'ordre social et économique. Cette manifestation doit offrir une occasion exceptionnelle d'échanger des avis sur les communications ubiquitaires de demain et de recueillir une grande diversité de points de vue fondés sur les enseignements tirés de l'utilisation des réseaux et des services existants. Il est par conséquent demandé, dans le cadre de cette manifestation, de présenter des communications universitaires sur des conceptions novatrices et audacieuses dans l'optique de l'Internet de demain. Le texte intégral de l'**Appel à contributions** figure dans l'**Annexe 1** de la présente Circulaire.

3 Les contributions à fournir pour cette manifestation doivent être rédigées en anglais seulement. La date limite de soumission est fixée au **30 avril 2010**.

4 La participation à la manifestation ainsi que la présentation de documents sont ouvertes aux Etats Membres, aux Membres de Secteur et aux Associés de l'UIT ainsi qu'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, y compris d'établissements universitaires ou de recherche‑développement. La participation à la manifestation est gratuite et aucune bourse ne sera accordée.

5 Des informations relatives à la manifestation seront disponibles sur le site web de l'UIT‑T, à l'adresse suivante: <http://itu-kaleidoscope.org/2010>. Les auteurs qui soumettent leurs originaux sont priés de se conformer aux lignes directrices et d'utiliser les outils qui seront prochainement mis à disposition sur la page web de la manifestation.

6 Nous encourageons tous les membres de l'UIT à diffuser le plus largement possible cet appel à contributions (Annexe 1), de façon qu'il s'adresse en particulier aux étudiants, aux professeurs et aux chercheurs des différents pays.

7 Nous vous rappelons que, pour les ressortissants de certains pays, l'entrée et le séjour en Inde sont soumis à l'obtention d'un visa. Ce visa doit être demandé et obtenu auprès de la représentation de l'Inde dans votre pays (ambassade ou consulat) 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: [www.itu-kaleidoscope.org/2010](http://www.itu-kaleidoscope.org/2010). Des renseignements y seront publiés dès qu'ils seront disponibles.

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

Malcolm Johnson  
Directeur du Bureau de la  
normalisation des télécommunications

**Annexe:** 1

ANNEX 1  
(to TSB Circular 91)

***BEYOND THE INTERNET?  
INNOVATIONS FOR FUTURE NETWORKS AND SERVICES***

**AN ITU-T KALEIDOSCOPE EVENT TECHNICALLY CO-SPONSORED BY IEEE COMMUNICATIONS SOCIETY**

**13 – 15 December 2010, Lonavala, India**

**Call for Papers**

ITU-T Kaleidoscope-2010 ***Beyond the Internet?*** *− Innovations for future networks and services −* is the third in a series of peer-reviewed academic conferences that bring together a wide range of views from universities, industry and research. The aim of Kaleidoscope conferences is to identify information and communication technologies (ICTs) for which the development of standards can turn innovations into successful products and services.

The rise of mobile access and its integration with optical transport networks pose key questions: how should the current architecture evolve to accommodate fixed-mobile integration and the demand of services and applications, 10-15 years from now? How could the cloud and grid computing models be integrated? And, what will the social and economic impact of these innovations be in the future information society?

Some experts question whether the current underlying architecture is sufficiently robust to evolve and adapt to future demands and especially to address security concerns, or if a “clean slate” approach is needed to develop a really innovative Internet of the future. Contributors seeking to bring innovations for future networks and services might have to challenge the fundamental networking design principles of the Internet.

***Beyond the Internet?*** *− Innovations for future networks and services −* is calling for original academic papers offering innovative and daring approaches towards the Internet of the future. Kaleidoscope-2010 aims to be a unique opportunity to share views on the future ubiquitous communications and to collect broad, kaleidoscopic views building upon lessons learnt from existing networks and services.

### Objectives

***Beyond the Internet?*** *− Innovations for future networks and services −* will highlight multidisciplinary aspects of future ICTs, based on contributions from the world's universities, industry and academic institutions. The focus will be on innovative technologies and their impact on the evolution of Internet architectures, services and applications, as well as societal and economic challenges.

### New this year

In addition to a local universities exhibition, outstanding keynote speakers and invited papers, ITU will host in 2010 ***Standards******Corner,*** a series of standardization tutorials and [***Jules Verne***](http://en.wikipedia.org/wiki/Jules_Verne)***'s corner,*** a special space for science fiction writers and dreamers.

### Audience

***Beyond the Internet?*** *− Innovations for future networks and services −* is targeted at all specialists with a role in the field including researchers, academics, students, engineers, regulators, top decision-makers and thinkers from all over the world who look into the future.

### Date and venue

13-15 December 2010, Lonavala, India

### Submission of papers

Prospective authors, from countries that are members of ITU, are invited to submit complete, original papers with a maximum length of 4500 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/2010> 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: ***30 April 2010***

Notification of paper acceptance: ***30 July 2010***

Submission of camera-ready accepted papers: ***10 September 2010***

### 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, young authors presenting accepted papers who have not yet received a PhD title will also receive a Young Author Recognition certificate.

### General Chair

Yoichi Maeda (ITU-T; NTT, Japan)

Organizing Committee (as of 12 February 2010)

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John Visser (Consultant, CA)  
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(as of 12 February 2010)

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Isabella Cerutti (SSSUP, IT)  
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Seong-gon Choi (Chungbuk National University, KR)  
Young Choi (Bloomsburg Univ. of Pennsylvania, US)  
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Amilton da Costa Lamas (CPqD - DTS - GMP, BR)  
Noël Crespi (Institut Télécom, FR)  
Giancarlo De Marchis (TelCon srl, IT)  
Tineke Mirjam Egyedi (TU Delft, NL)  
Mahmoud El-Hadidi (Cairo University, EG)  
Khalil El-Khatib (UOIT, CA)  
Dmitry Epstein (Cornell University, US)  
Vladislav V. Fomin (Vytautas Magnus University, LT)  
Luca Foschini (University of Bologna, IT)  
Ivan Ganchev (University of Limerick, IE)   
Wen Gao (Peking University, CN)  
Carlo Giannelli (University of Bologna, IT)  
Anahita Gouya (Inst. National des Telecomm., FR)  
Chris G. Guy (The University of Reading, UK)  
Guenter Haring (University of Vienna, AT)  
Emmanuel Jaffrot (Univ. Nacional de S. Martin, AR)  
Carlos Juiz (University of the Balearic Islands, ES)  
Farouk Kamoun (Planet, TN)  
Tim Kelly (World Bank, US)

Andrej Kos (University of Ljubljana, SI)  
Ken Krechmer (University of Colorado, US)  
Claude Lamblin (France Telecom, FR)  
Matti Latva-aho (University of Oulu, FI)  
Gyu Myoung Lee (Institut Télécom, FR)  
José G. López Perafán (University of Cauca, CO)  
Thomas Magedanz (TU Berlin, DE)  
Mehdi Mani (Institut Télécom, FR)  
Lorne Mason (McGill University, CA)  
Álvaro Medeiros (Fundação CPqD, BR)  
Werner Mohr (NSN GmbH & Co. KG, DE)  
Edmundo Monteiro (University of Coimbra, PT)  
Mohammed Nafie (Nile University, EG)  
José Neuman de Souza (Federal Univ. of Ceará, BR)  
Sergio Ochoa (Universidad de Chile, CL)  
Máirtín O'Droma (University of Limerick, IE)   
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Fumitaka Ono (Tokyo Polytechnic University, JP)  
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Rudi Westerveld (TU Delft, NL)  
Moustafa Youssef (Nile University, EG)  
Rachid Zagrouba (University of Manouba, TN)

### Keywords

Future Internet, technological innovation, network architecture, services, applications, ICT standards, information society, policy and economic issues.

### For additional information

Additional info can be found at the event website: <http://itu-kaleidoscope.org/2010>.

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

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

### Track 1: Technology and architecture evolution

* Evolution of Internet architecture, NGN and the future Internet
* Mobility and nomadicity in evolved architectures
* High-data-rate mobile infrastructures, seamless handover, multihoming and mobility
* Convergence of optical/photonics and radio techniques for transport and access networks
* Ultra-high speed transport networks
* Cloud computing and grid computing
* Enterprise integration of legacy networks and the future internet
* Advanced network security, network identification, biometrics, localization techniques and ubiquitous sensor networks (USN)
* Intelligent Transportation Systems (ITS) infrastructure
* RFID, sensors and ad-hoc networks
* Evolution of display technology
* Broadcasting, multicasting, unicasting and peer-to-peer in the future Internet
* Green and energy efficient architectures
* Digital rights and identity management
* Evolution of network management including fault management and localization
* New hardware solutions, integrated circuits, antenna designs etc.
* Service oriented modeling and analysis in future architectures

### Track 2: Applications and services

* Enhancing accessibility for all
* Open service interfaces, service interaction and interoperability in future scenarios
* New entertainment initiatives (games, IPTV, Interactive TV, Mobile TV, and others)
* Applications to reduce power consumptions
* The fully networked car
* Quality assurance / QoS for real time multimedia services
* Innovative multimedia applications and content delivery
* Advanced smart terminals
* Enhancing electronic storage and data mining
* Simulation and development tools
* Future virtual communities / social networking services
* Creative combinations of web and network services
* Middleware service discovery
* Evolution of e-public services (e.g. e-government, e-health and e-learning)
* Advanced services using sensors and RFID applications
* Solutions for ICT recycling and waste reduction
* Field experience in creating innovative solutions using limited technology

### Track 3: Social, economic and policy issues

* Evolution of legislative and regulatory frameworks towards inclusive converged networks
* Balancing Internet security and ubiquity
* Securing users from Internet content (e.g. child protection)
* Evolution of NGN and future Internet standardization
* Business models for the information society (including accounting, billing and charging)
* Economics of ICT standardization
* Standardization models for the Internet of the future
* Societal impact of virtual / collaborative environments
* Management of virtual and collaborative teams
* ICTs as an enabling technology to mitigate climate change and GHG emissions

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