

# Living in a converged world

## Impossible without standards?

### ITU Kaleidoscope conference

St. Petersburg, Russian Federation, 3-5 June 2014

#### DAY 1 - TUESDAY 3 JUNE 2014

<b>08:30 - 09:30</b>	<b>Welcome and Registration</b>
<b>09:30 - 11:15</b>	<b>Opening Plenary</b> <ul style="list-style-type: none"> <li>▪ <b>Welcome Host: Sergey Bachevsky</b> (Rector, SPbSUT, Russian Federation; Kaleidoscope 2014 General Chairman)</li> <li>▪ <b>Opening Address: Malcolm Johnson</b> (Director, Telecommunication Standardization Bureau, ITU)</li> <li>▪ <b>Inaugural Speeches:</b>  <b>Oleg Dukhovnitsky</b>, Head of the Federal Agency of Communications, Russian Federation  <b>Rashid Ismailov</b>, Head of Department of International Cooperation, Ministry of Communications and Mass Media, Russian Federation  <b>Ivan Gromov</b>, Chairman of the Committee on IT and Communications, Government of St. Petersburg, Russian Federation  <b>Vyacheslav Ivanyuk</b>, Director General of Russian Broadcasting and Warning Networks, Russian Federation</li> <li>▪ <b>Scientific Welcome Speech:</b> Nobel Prize Winner Academician <b>Z. Alferov</b></li> </ul>
<b>11:15 - 11:45</b>	<b>Coffee break</b>
<b>11:45 - 12:30</b>	<b>Keynote speeches</b> <b>Session Chair: Oleg Zolotokrylin</b> (SPbSUT, Russian Federation) <ul style="list-style-type: none"> <li>▪ Internet of Nanothings.  <b>I.F. Akyildiz</b> (Georgia Institute of Technology, USA)</li> <li>▪ Experimental Biology and Molecular Communications.  <b>Y. Koucheryav</b> (Tampere University of Technology, Finland)</li> </ul>
<b>12:30 - 13:30</b>	<b>Special Session</b>
<b>13:30 - 14:30</b>	<b>Lunch</b>
<b>14:30 - 16:00</b>	<b>Session 1 – The future of convergence</b> <b>Session Chair: Eva Ibarrola</b> (University of the Basque Country, Spain) <ul style="list-style-type: none"> <li>▪ <b>S1.1 Invited paper:</b> A Software Defined Approach to Unified IPv6 Transition.  Wenfeng Xia, Haiyong Xie (University of Science and Technology of China, China); Tina Tsou, Felix Lu, Wei Feng, <b>Kevin Hu</b> (Huawei Technologies, China); Diego Lopez (Telefonica, Spain); Qiong Sun (Beijing Research Institute, China Telecom)</li> <li>▪ <b>S1.2 Global Convergence in Digital Identity and Attribute Management: Emerging Needs for Standardization.</b>  Maurizio Talamo (University of Rome Tor Vergata and Nestor Laboratory, Italy); Maria Laura Barchiesi (Tor Vergata University of Rome, Italy); <b>Daniela Merella</b>, Christian Schunck (Fondazione Inuit Tor Vergata University of Rome, Italy)</li> <li>▪ <b>S1.3 Distributed Demand-Side Management with Load Uncertainty.*</b>  <b>Emmanuel Chifuel Manasseh</b>, Shuichi Ohno, Toru Yamamoto (Hiroshima University, Japan); Aloys Mvuma (University of Dodoma, Tanzania)</li> <li>▪ <b>S1.4 Proposal of “Cyber Parallel Traffic World” Cloud Service.</b>  <b>Yoshitoshi Murata</b> (Iwate Prefectural University, Japan); Shinya Saito (Iwate Prefectural University Graduate School, Japan)</li> </ul>
An * denotes papers nominated for best paper awards.	



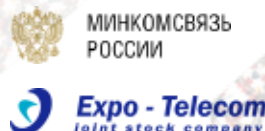
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<b>16:00 - 16:30</b>	<b>Coffee Break</b>
<b>16:30 - 17:30</b>	<p><b>Special session - Jules Verne's corner - Heart to heart communication</b>  <b>Moderator: Andrey Koucheryavy</b> (SPbSUT, Russian Federation)</p> <p><b>Panelists:</b></p> <ul style="list-style-type: none"> <li>▪ Telefax as forerunner of teleportation  <b>Boris Goldstein</b> (SPb GUT, Russian Federation)</li> <li>▪ From Jules Verne's Moon Landing Dream in 1865 to "Star Wars" now  <b>Manfred Schneps</b> (Ventspils University College, Latvia)</li> <li>▪ From Ubiquitous Sensor Network (USN) to Heart to Heart (He2He) Communications  <b>Andrey Koucheryavy</b> (SPbSUT, Russian Federation)</li> </ul>
<b>19:00</b>	<b>Welcome Reception</b>
<b>DAY 2 - WEDNESDAY 4 JUNE 2014</b>	
<b>09:30 - 10:00</b>	<p><b>Keynote speech</b>  <b>Session Chair: Alessia Magliarditi</b> (ITU-T, Switzerland)</p> <p>Data vs Device-centric Cloud services for resource monitoring.  <b>Antonio Puliafito</b>, Maria Fazio (University of Messina, Italy)</p>
<b>10:00 - 11:00</b>	<p><b>Session 2 – Part I: 3G, 4G, 5G and beyond – the impact on spectrum</b>  <b>Session Chair: Christoph Dosch</b> (ITU-R Study Group 6 Chairman; IRT GmbH, Germany)</p> <ul style="list-style-type: none"> <li>▪ <b>S2.1</b> Towards Converged 5G Mobile Networks - Challenges and Current Trends.*  <b>Anna Zakrzewska</b>, Sarah Ruepp, Michael S. Berger (Technical University of Denmark, Denmark)</li> <li>▪ <b>S2.2</b> Comparison of WiBro and TD-LTE through the Social Network Analysis.  <b>Dong-hyu Kim</b>, Heejin Lee, Jooyoung Kwak (Yonsei University, Korea)</li> <li>▪ <b>S2.3</b> Modelling and performance analysis of pre-emption based radio admission control scheme for video conferencing over LTE.  Vladimir Y. Borodakiy (JSC Concern Sistemprom, Russia); Irina A. Gudkova, <b>Ekaterina V. Markova</b>, Konstantin Samouylov (Peoples' Friendship University of Russia, Russia)</li> </ul>
<b>11:00 - 11:30</b>	<b>Coffee Break</b>
<b>11:30 - 13:00</b>	<p><b>Session 2 – Part II: 3G, 4G, 5G and beyond – the impact on spectrum</b>  <b>Session Chair: Ved P. Kafle</b> (NICT, Japan)</p> <ul style="list-style-type: none"> <li>▪ <b>S2.4</b> IMT Standardisation and Spectrum Identification: Regulatory and Technology Implications.  <b>Mohamed El-Moghazi</b>, Jason Whalley, James Irvine (University of Strathclyde, United Kingdom)</li> <li>▪ <b>S2.5</b> Spectrum occupation and perspectives millimeter band utilization for 5G networks.  Grigory Bochechka (Icominvest, Russia); <b>Valery Tikhvinskiy</b> (Moscow Technical University of Communication and Informatisation (MTUCI), Russia)</li> <li>▪ <b>S2.6</b> A Non-cooperative TV White Space Broadband Market Model for Rural Entrepreneurs.  <b>Sindiso Mpenyu Nlelya</b> (Computer Science Department, South Africa); Bigomokero Antoine Bagula (University of Western Cape, South Africa); Marco Zennaro, Ermanno Pietrosemoli (International Centre for Theoretical Physics (ICTP), Italy)</li> </ul>
<b>13:00 - 14:00</b>	<b>Lunch</b>
<b>14:00 - 14:30</b>	<p><b>Fast-forward Poster Session</b>  <b>Session Chair: Martin Adolph</b> (ITU-T, Switzerland)</p>
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<p><b>14:30 - 16:00</b></p>	<p><b>Poster Session with coffee break</b>  <b>Session Chair: Martin Adolph</b> (ITU-T, Switzerland)</p> <ul style="list-style-type: none"> <li>▪ <b>P.1</b> How to support a standard on a multi-level playing field of standardization: propositions, strategies and contributions.  <b>Ellen Filipovic'</b> (TU Berlin, Germany)</li> <li>▪ <b>P.2</b> Content Distribution in Information Centric Network: Economic Incentive Analysis in Game Theoretic Approach.  <b>Mohammad Arifuzzaman</b>, Keping Yu, Takuro Sato (Waseda University, Japan)</li> <li>▪ <b>P.3</b> Innovative RF Localization for Wireless Video Capsule Endoscopy.  <b>Igor Vitas</b>, Damir Zrno (Faculty of Electrical Engineering, University of Zagreb, Croatia); Dina Simunic (University of Zagreb, Croatia); Ramjee Prasad (Aalborg University, Denmark)</li> <li>▪ <b>P.4</b> Economical efficiency assessment model of spectrum conversion for new mobile wireless technologies.  <b>Victor Koval</b> (GEYSER-TELECOM, Ltd, Russia); Valery Tikhvinskiy (Moscow Technical University of Communication and Informatisation, Russia)</li> <li>▪ <b>P.5</b> A Mutual Key Agreement Protocol To Mitigate Replaying Attack In eXpressive Internet Architecture (XIA).  Beny Nugraha (Mercu Buana University, Indonesia); <b>Rahamatullah Khondoker</b>, Ronald Marx, Kpatcha Bayarou (Fraunhofer SIT, Germany)</li> <li>▪ <b>P.6</b> A cloud platform for QoE evaluation: QoXcloud.  <b>Eduardo Saiz</b>, Eva Ibarrola, Leire Cristobo, Ianire Taboada (University of the Basque Country, Spain)</li> <li>▪ <b>P.7</b> Performance evaluation of a dual diversity reception base on OFDM RoFSO systems over correlated log-normal fading channel.  <b>Fan Bai</b>, Yuwei Su, Takuro Sato (Waseda University, Japan)</li> <li>▪ <b>P.8</b> Assessment of New Information and Communication Technologies using activity-based costing and tensor analysis of networks.  Nikolay Suschenko, Anatoly Nazarenko, <b>Viliam Sarian</b>, Alexander Lutokhin (Federal State Unitary Enterprise Radio Research And Development Institute, Russia)</li> <li>▪ <b>P.9</b> Sustainable Security Advantage in a Changing Environment: The Cybersecurity Capability Maturity Model (CM2).  <b>Corlane Barclay</b> (University of Technology Jamaica, Jamaica)</li> </ul>
<p><b>16:00 - 17:30</b></p>	<p><b>Session 3 – Multimedia applications for all?!</b>  <b>Session Chair: Dhananjay Kumar</b> (Anna University, India)</p> <ul style="list-style-type: none"> <li>▪ <b>S3.1 Invited Paper:</b> Conversion of Broadcasting and Broadband Internet - A benefit for people with disabilities (and for us all).  <b>Christoph Dosch</b> (ITU-R Study Group 6 Chairman; IRT GmbH, Germany)</li> <li>▪ <b>S3.2 SQUALES:</b> A QT-based Application for Full-Reference Objective Stereoscopic Video Quality Measurement.*  José Vinícius de Miranda Cardoso; Marcelo Sampaio de Alencar (Federal University of Campina Grande, Brazil); Carlos Danilo Regis (IFPB, Brazil)</li> <li>▪ <b>S3.3</b> Design and Specifications of a Repository for Real-Time Open Data.  Sudesh Lutchman, <b>Patrick Hosein</b> (University of the West Indies, Trinidad and Tobago)</li> <li>▪ <b>S3.4</b> A Cross-Country Comparison on User Acceptance of Multimedia Cloud Services - Germany and Japan  <b>Yasuhiro Tanaka</b> (Senshu University, Japan); Akihisa Kodate (Tsuda College, Japan)</li> </ul> <p>An * denotes papers nominated for best paper awards.</p>

## DAY 3 - THURSDAY 5 JUNE 2014

<b>9:30 - 11:00</b>	<p><b>Session 4 – E-Health and standards</b>  <b>Session Chair: Martin Adolph</b> (ITU-T, Switzerland)</p> <ul style="list-style-type: none"> <li>▪ <b>S4.1</b> Combining ICT-Standards Essential-Patents and Medical-managerial Guidelines towards sustainable Assisted-living and home-care.*  <b>Vasileios P. Spyropoulos</b> (Technological Education Institute of Athens, Greece)</li> <li>▪ <b>S4.2</b> E-HEALTH Standardization Challenges in Emerging Economies: The case of Mexico.  Arturo Serrano-Santoyo, <b>Veronica Rojas Mendizabal</b> (CICESE Research Center, Mexico)</li> <li>▪ <b>S4.3</b> Reverse Standardization from Public E-health Service.  <b>Masahiro Kuroda</b>, Yasuyuki Koga, Yasunobu Akaoka (NICT, Japan); Yasunobu Nohara, Naoki Nakashima, Ashir Ahmed (Kyushu University, Japan); Partha Pratim Ghosh, Rafiqul Maruf (Grameen Communications, Bangladesh)</li> <li>▪ <b>S4.4</b> Global standards, the key enablers for deploying next generation emergency communications networks.  <b>Fidel Liberal</b>, Jose Oscar Fajardo (University of the Basque Country, Spain); Naiara Goia (ITELAZPI S.A., Spain); Ioanna Mesogiti (COSMOTE Mobile Telecommunications S.A., Greece)</li> </ul>
<b>11:00 - 11:30</b>	<b>Coffee Break</b>
<b>11:30 - 12:30</b>	<p><b>Session 5 – Sensor networks</b>  <b>Session Chair: Mitsuji Matsumoto</b> (Waseda University, Japan)</p> <ul style="list-style-type: none"> <li>▪ <b>S5.1</b> Dynamic Mobile Sensor Network Platform for ID-based Communication.*  <b>Ved P. Kafle</b>, Yusuke Fukushima, Hiroaki Harai (NICT, Japan)</li> <li>▪ <b>S5.2</b> An Experimental Test-Bed for the Evaluation of the Hidden Terminal Problems on the IEEE 802.15.5 Standard.  David Rodenas-Herraiz, <b>Antonio-Javier Garcia-Sanchez</b>, Felipe Garcia-Sanchez, Joan Garcia-Haro (Technical University of Cartagena, Spain)</li> <li>▪ <b>S5.3</b> On Software Standards for Smart Cities: API or DPI.  <b>Dmitry Namiot</b> (Moscow State University, Russia); Manfred Snepš-Sneppe (Ventšpils University College, Latvia)</li> </ul>
<b>12:30 - 13:30</b>	<b>Lunch</b>
<b>13:30 - 15:00</b>	<p><b>Session 6 – Standardization, Education, Innovation</b>  <b>Session Chair: Elena Bogdanova</b> (Director of the Institute of International Business and Law NRU ITMO, Russian Federation)</p> <ul style="list-style-type: none"> <li>▪ <b>S6.1 Invited Paper:</b> Standardization: A primer.  <b>Ken Krechmer</b> (University of Colorado, USA)</li> <li>▪ <b>S6.2</b> Standards as enablers for innovation in education - the breakdown of European pre-standardisation.  <b>Tore Hoel</b> (Oslo and Akershus University College of Applied Sciences, Norway)</li> <li>▪ <b>S6.3</b> Syllabuses Crawling and Knowledge Extraction of Courses for Global Standardization Education.  <b>Hiroshi Nakanishi</b>, Yoshiaki Kanaya (Osaka University, Japan); Tetsuo Oka (Tresbind Corporation, Japan)</li> <li>▪ <b>S6.4</b> Standards: Inhospitable Terrain for Innovation?*.  Justin Pierce, <b>Megi Medzmariashvili</b> (Lund University, Sweden)</li> </ul>
<b>15:00 - 15:30</b>	<b>Coffee Break</b>
<b>15:30 - 16:00</b>	<p><b>Wrap-Up Session</b>  <b>Session Chairman: Christoph Dosch</b> (ITU-R Study Group 6 Chairman; IRT GmbH, Germany)  Summary of the sixth Kaleidoscope conference (panel with Session Chairs)</p>
<b>16:00 - 16:30</b>	<p><b>Best Paper Awards and Young Author Recognition Ceremony</b>  <b>Sergey Bachevsky</b> (Rector, SPbSUT; Russian Federation; Kaleidoscope 2014 General Chairman)  <b>Alessia Magliarditi</b> (ITU Kaleidoscope Coordinator)</p>
<b>16:30 - 17:00</b>	<p><b>Closing</b>  <b>Sergey Bachevsky</b> (Rector, SPbSUT; Russian Federation; Kaleidoscope 2014 General Chairman)  <b>Alessia Magliarditi</b> (ITU Kaleidoscope Coordinator)</p>
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