

2014 ITU Kaleidoscope: Living in a converged world – impossible without standards?

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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

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



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16:00 - 16:30	Coffee Break
16:30 - 17:30	<p>Special session - Jules Verne's corner - Heart to heart communication Moderator: Andrey Koucheryavy (SPbSUT, Russian Federation)</p> <p>Panelists:</p> <ul style="list-style-type: none"> ▪ Telefax as forerunner of teleportation Boris Goldstein (SPb GUT, Russian Federation) ▪ From Jules Verne's Moon Landing Dream in 1865 to "Star Wars" now Manfred Schneps (Ventspils University College, Latvia) ▪ From Ubiquitous Sensor Network (USN) to Heart to Heart (He2He) Communications Andrey Koucheryavy (SPbSUT, Russian Federation)
19:00	Welcome Reception
DAY 2 - WEDNESDAY 4 JUNE 2014	
09:30 - 10:00	<p>Keynote speech Session Chair: Alessia Magliarditi (ITU-T, Switzerland)</p> <p>Data vs Device-centric Cloud services for resource monitoring. Antonio Puliafito, Maria Fazio (University of Messina, Italy)</p>
10:00 - 11:00	<p>Session 2 – Part I: 3G, 4G, 5G and beyond – the impact on spectrum Session Chair: Christoph Dosch (ITU-R Study Group 6 Chairman; IRT GmbH, Germany)</p> <ul style="list-style-type: none"> ▪ S2.1 Towards Converged 5G Mobile Networks - Challenges and Current Trends.*'''+& Anna Zakrzewska, Sarah Ruepp, Michael S. Berger (Technical University of Denmark, Denmark) ▪ S2.2 Comparison of WiBro and TD-LTE through the Social Network Analysis.''' (Dong-hyu Kim, Heejin Lee, Jooyoung Kwak (Yonsei University, Korea) ▪ S2.3 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, Ekaterina V. Markova, Konstantin Samouylov (Peoples' Friendship University of Russia, Russia)
11:00 - 11:30	Coffee Break
11:30 - 13:00	<p>Session 2 – Part II: 3G, 4G, 5G and beyond – the impact on spectrum Session Chair: Ved P. Kafle (NICT, Japan)</p> <ul style="list-style-type: none"> ▪ S2.4 IMT Standardisation and Spectrum Identification: Regulatory and Technology Implications.''' (+ Mohamed El-Moghazi, Jason Whalley, James Irvine (University of Strathclyde, United Kingdom) ▪ S2.5 Spectrum occupation and perspectives millimeter band utilization for 5G networks.''' () ' Grigory Bochechka (Icominvest, Russia); Valery Tikhvinskiy (Moscow Technical University of Communication and Informatisation (MTUCI), Russia) ▪ S2.6 A Non-cooperative TV White Space Broadband Market Model for Rural Entrepreneurs.''' () + Sindiso Mpenyu Nleya (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)
13:00 - 14:00	Lunch
14:00 - 14:30	<p>Fast-forward Poster Session Session Chair: Martin Adolph (ITU-T, Switzerland)</p>
An * denotes papers nominated for best paper awards.	

<p>14:30 - 16:00</p>	<p>Poster Session with coffee break Session Chair: Martin Adolph (ITU-T, Switzerland)</p> <ul style="list-style-type: none"> ▪ P.1 How to support a standard on a multi-level playing field of standardization: propositions, strategies and contributions.*** (Ellen Filipovic' (TU Berlin, Germany) ▪ P.2 Content Distribution in Information Centric Network: Economic Incentive Analysis in Game Theoretic Approach.***+& Mohammad Arifuzzaman (Waseda University, Japan); Keping Yu (Waseda University, Japan); Takuro Sato (Waseda University, Japan) ▪ P.3 Innovative RF Localization for Wireless Video Capsule Endoscopy.***+, Igor Vitas (Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia); Damir Zrno (Faculty of Electrical Engineering, University of Zagreb, Croatia); Dina Simunic (University of Zagreb, Croatia); Ramjee Prasad (Aalborg University, Denmark) ▪ P.4 Economical efficiency assessment model of spectrum conversion for new mobile wireless technologies.***, * Victor Koval (GEYSER-TELECOM, Ltd, Russia); Valery Tikhvinskiy (Moscow Technical University of Communication and Informatisation (MTUCI), Russia) ▪ P.5 A Mutual Key Agreement Protocol To Mitigate Replaying Attack In eXpressive Internet Architecture (XIA).***- \$ Beny Nugraha (Mercu Buana University, Indonesia); Rahamatullah Khondoker (Fraunhofer SIT, Germany); Ronald Marx (Fraunhofer SIT, Germany); Kpatcha Bayarou (Fraunhofer Institute for Secure Information Technology, Germany) ▪ P.6 A cloud platform for QoE evaluation: QoXcloud.***-, Eduardo Saiz (University of the Basque Country, Spain); Eva Ibarrola (University of the Basque Country, Spain); Leire Cristobo (University of the Basque Country, Spain); Ianire Taboada (University of the Basque Country, Spain) ▪ P.7 Standardizing the Internet of Things in an evolutionary way.***%\$) Subin Shen (Nanjing University of Posts and Telecommunications, P.R. China); Marco Carugi (China Unicom, France) ▪ P.8 Performance evaluation of a dual diversity reception base on OFDM RoFSO systems over correlated log-normal fading channel.***%% Fan Bai (Waseda University, Japan); Yuwei Su (Waseda University, Japan); Takuro Sato (Waseda University, Japan) ▪ P.9 Assessment of New Information and Communication Technologies using activity-based costing and tensor analysis of networks.***%+ Nikolay Suschenko (Federal State Unitary Enterprise Radio Research And Development Institute, Russia); Anatoly Nazarenko (Federal State Unitary Enterprise Radio Research And Development Institute, Russia); Viliam Sarian (Federal State Unitary Enterprise Radio Research And Development Institute, Russia); Alexander Lutokhin (Federal State Unitary Enterprise Radio Research And Development Institute, Russia) ▪ P.10 Sustainable Security Advantage in a Changing Environment: The Cybersecurity Capability Maturity Model (CM2).***%& Corlane Barclay (University of Technology Jamaica, Jamaica)
<p>16:00 - 17:30</p>	<p>Session 3 – Multimedia applications for all?! Session Chair: Dhananjay Kumar (Anna University, India)</p> <ul style="list-style-type: none"> ▪ S3.1 Invited Paper: Conversion of Broadcasting and Broadband Internet - A benefit for people with disabilities (and for us all).***% Christoph Dosch (ITU-R Study Group 6 Chairman; IRT GmbH, Germany) ▪ S3.2 SQALES: A QT-based Application for Full-Reference Objective Stereoscopic Video Quality Measurement.****% , José Vinicius de Miranda Cardoso; Marcelo Sampaio de Alencar (Federal University of Campina Grande, Brazil); Carlos Danilo Regis (IFPB, Brazil) ▪ S3.3 Design and Specifications of a Repository for Real-Time Open Data.***%(* Sudesh Lutchman, Patrick Hosein (University of the West Indies, Trinidad and Tobago) ▪ S3.4 A Cross-Country Comparison on User Acceptance of Multimedia Cloud Services - Germany and Japan***%& Yasuhiro Tanaka (Senshu University, Japan); Akihisa Kodate (Tsuda College, Japan)
	<p>An * denotes papers nominated for best paper awards.</p>

DAY 3 - THURSDAY 5 JUNE 2014

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