

The fully networked human?

Innovations for future networks and services

Fourth ITU Kaleidoscope academic conference

Cape Town, South Africa, 12-14 December 2011

Programme

DAY 1 - MONDAY, 12 DECEMBER 2011

09:00 - 10:30	<p>Opening Plenary Plenary chairman: Mostafa Hashem Sherif (General Chair, Kaleidoscope; AT&T, USA) Welcome Host: Francis William Petersen (Dean, Faculty of Engineering & Built Environment, University of Cape Town, South Africa) Welcome Waseda University: Mitsuji Matsumoto (Professor, Global Information and Telecommunication Studies, Graduate School of Waseda University, Japan) Welcome Telkom SA Opening address: Malcolm Johnson (Director, Telecommunication Standardization Bureau, ITU) Inaugural Speech: H.E Ms Dina Pule (Minister of Communications, South Africa)</p>
10:30 - 11:00	Coffee Break supported by the Department of Communications, South Africa
11:00 - 11:30	<p>Keynote speech: 2020: The Ubiquitous Heterogeneous Network - Beyond 4G. Rufus Andrew (Managing Director, Nokia Siemens Networks, South Africa) Connecting the Unconnected - Unleashing the potential of Telecom Networks. Ajay Ranjan Mishra (NSN - India)</p>
11:30 - 13:00	<p>Session 1 - ICTs helping Africa Session chairman: Alfredo Terzoli (Rhodes University, South Africa)</p> <ul style="list-style-type: none"> ▪ S1.1 The Role Of ICTs In Quantifying The Severity and Duration Of Climatic Variations - Kenya's Case*. Muthoni Masinde, Antoine Bagula (University of Cape Town, South Africa) ▪ S1.2 ICT use in South African Microenterprises: An assessment of Livelihood outcomes. Frank Makoza, Wallace Chigona (University of Cape Town, South Africa) ▪ S1.3 SM²: Solar Monitoring System in Malawi. Mayamiko Nkoloma (Malawi Polytechnic, Malawi); Marco Zennaro (ICTP - The Abdus Salam International Centre for Theoretical Physics, Italy); Antoine Bagula (University of Cape Town, South Africa)
13:00 - 14:00	Lunch supported by the Department of Communications, South Africa
14:00 - 15:30	<p>Session 2 - Connecting rural regions Session chairman: Ajay Ranjan Mishra (NSN - India)</p> <ul style="list-style-type: none"> ▪ S2.1 Proposal of a Wired Rural Area Network with Optical Submarine Cables. Yoshitoshi Murata (Iwate Prefectural University, Japan); Hiroshi Mano, Hitoshi Morioka (Root Inc., Japan) ▪ S2.2 Development of an ICT road map for eServices in rural areas. Nobert Jere, Mamello Thinyane (Telkom Centre of Excellence in ICTD, South Africa); Alfredo Terzoli (Rhodes University, South Africa) ▪ S2.3 Investigating implementation of communication networks for advanced metering infrastructure in South Africa. Mononts'i Nthontho, Simon Winberg, S P Chowdhury (University of Cape Town, South Africa)

An * denotes papers nominated for best paper awards.

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15:30 - 16:00	Coffee Break supported by the Department of Communications, South Africa
16:00 - 18:00	<p>Session 3 - Reflections on a fully networked society Session chairman: Yoshikazu Ikeda (Otani University, Japan)</p> <ul style="list-style-type: none"> ▪ S3.1 Invited Paper: Cooperative Wi-Fi-Sharing: Encouraging Fair Play. <u>Hanno Wirtz</u>, René Hummen, Nicolai Viol, Tobias Heer, Mónica Alejandra Lora Girón, Klaus Wehrle (RWTH Aachen University, Germany) ▪ S3.2 Making things socialize in the Internet – Does it help our lives?* <u>Luigi Atzori</u> (University of Cagliari, Italy); Antonio Iera (University “Mediterranea” of Reggio Calabria, Italy); Giacomo Morabito (University of Catania, Italy) ▪ S3.3 Net-Centric World: Lifestyle of the 21st Century. Daniel Kharitonov (Juniper Networks Inc, USA) ▪ S3.4 Reflexive Standardization of Network Technology. Ian Graham (University of Edinburgh, United Kingdom)
DAY 2 - TUESDAY, 13 DECEMBER 2011	
09:00 - 09:30	<p>Keynote speech: Recovery from the Communication Disturbance by the Tohoku Earthquake and Actions toward the Future. Hirofumi Horikoshi (Technology Planning Department, NTT Corporation, Japan)</p>
09:30 - 09:45	<p>Fast-Forward Poster Preview Session chairman: Martin Adolph (Telecommunication Standardization Bureau, ITU)</p>
09:45 - 11:15	<p>Session 4 - Frequency and Spectrum Management Session chairman: Mitsuji Matsumoto (Waseda University, Japan)</p> <ul style="list-style-type: none"> ▪ S4.1 Radio Resource Management in OFDMA-CRN Considering Primary User Activity and Detection Scenario. Dhananjay Kumar (Anna University, India); <u>Kanagaraj Nachimuthu Nallasamy</u> (Alcatel-Lucent India Limited, India) ▪ S4.2 Optimal Pilot Patterns Considering Optimal Power Loading for Cognitive Radios in the Two Dimensional Scenario. <u>Boyan Soubachov</u>, Neco Ventura (University of Cape Town, South Africa) ▪ S4.3 Optimal Spectrum Hole Selection and Exploitation in Cognitive Radio Networks. <u>Mahdi Pirmoradian</u>, Christos Politis (Kingston University London, United Kingdom)
11:15 - 11:45	Coffee Break supported by the Department of Communications, South Africa
11:45 - 13:15	<p>Poster Session - Showcasing innovations for future networks and services</p> <ul style="list-style-type: none"> ▪ P.1 A Trust Computing Mechanism for Cloud Computing. Mohamed Firdhous, Osman Ghazali, <u>Suhaidi Hassan</u> (Universiti Utara Malaysia, Malaysia) ▪ P.2 The Energy Label A Need To Networks And Devices. Virgilio Puglia (Italtel, Italy) ▪ P.3 A distributed mobility management scheme for future networks. <u>Ved P. Kafle</u>, Yasunaga Kobari, Masugi Inoue (National Institute of Information and Communications Technology, Japan) ▪ P.4 Toward Global Cybersecurity Collaboration: Cybersecurity Operation Activity Model. <u>Takeshi Takahashi</u> (National Institute of Information and Communications Technology, Japan); Youki Kadobayashi (Nara Institute of Science and Technology, Japan); Koji Nakao (KDDI Corporation, Japan) ▪ P.5 Context Representation Formalism and Its Integration into Context as a Service in Clouds. Boris Moltchanov (Telecom Italia, Italy) ▪ P.6 Supporting technically the Continuity of Medical Care: Status report and perspectives. <u>Vasileios B. Spyropoulos</u>, Maria Botsivaly, Aris Tzavaras (Technological Education Institute of Athens, Greece) ▪ P.7 Coexistence of a TETRA System with a Terrestrial DTV System in White Spaces. <u>Heejoong Kim</u>, Hideki Sunahara, Akira Kato (Keio University, Japan) ▪ P.8 Mobile cloud computing based on service oriented Architecture: embracing network as a service for 3rd party application service providers. <u>Michael Andres Feliu Gutierrez</u>, Neco Ventura (University of Cape Town, South Africa)
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13:15 - 14:15	Lunch supported by the Department of Communications, South Africa
14:15 - 15:45	<p>Session 5 - Optimisation of Layers 1 – 3 Session chairman: Tohru Asami (University of Tokyo, Japan)</p> <ul style="list-style-type: none"> ▪ S5.1 Transmission Analysis of Digital TV Signals over a Radio-on-FSO Channel.* <u>Chedlia Ben Naila</u>, Kazuhiko Wakamori, Mitsuji Matsumoto (Waseda University, Japan); Katsutoshi Tsukamoto (Osaka University, Japan) ▪ S5.2 A Hybrid MAC with Intelligent Sleep Scheduling for Wireless Sensor Networks.* <u>Mohammad Arifuzzaman</u>, Mohammad Shah Alam, Mitsuji Matsumoto (Waseda University, Japan) ▪ S5.3 Route Optimization Based On The Detection of Triangle Inequality Violations. <u>Papa Ousmane Sangharé</u>, Bamba Gueye, Ibrahima Niang (Université Cheikh Anta Diop de Dakar, Senegal)
15:45 - 16:15	Coffee Break supported by the Department of Communications, South Africa
16:15 - 18:15	<p>Session 6 - Architectures to support a fully networked society Session chairman: Ved P. Kafle (National Institute of Information and Communications Technology, Japan)</p> <ul style="list-style-type: none"> ▪ S6.1 Invited Paper: Effective Collaborative Monitoring In Smart Cities: Converging Manet And Wsn For Fast Data Collection. <u>Giuseppe Cardone</u>, Paolo Bellavista, Antonio Corradi, Luca Foschini (University of Bologna, Italy) ▪ S6.2 SOA Driven Architectures for Service Creation through Enablers in an IMS Testbed.* <u>Mosiuoa Tsietsi</u>, Alfredo Terzoli, George Wells (Rhodes University, South Africa) ▪ S6.3 A Virtualized Infrastructure for IVR Applications as Services.* <u>Fatna Belqasmi</u>, Christian Azar, Roch Glitho (Concordia University, Canada); Mbarka Soualhia (ETS, University of Quebec, Canada); Nadjia Kara, (École de Technologie Supérieure, Canada) ▪ S6.4 Seamless Cloud Abstraction, Model and Interfaces. <u>Masum Z. Hasan</u>, Monique Morrow, Lew Tucker (Cisco Systems, USA); Sree Lakshmi D. Gudreddi, Silvia Figueira (Santa Clara University, USA)
18:15 - 19:15	<p>Special session: Jules Verne's corner Session chairman: Paolo Rosa (Telecommunication Standardization Bureau, ITU) Panelists:</p> <ul style="list-style-type: none"> ▪ The disappearance of Telecommunications and the fading of boundaries among atoms and bits. Roberto Saracco (Telecom Italia, Italy) ▪ Dreaming of future CNS implantable medical micro-devices: Following the innovation patent-trail and appraising relevant ethical issues. Vasileios P. Spyropoulos (Medical Instrumentation Technology Department, Technological Education Institute of Athens, Greece) ▪ Atlas of Technology Advance. Rias J. van Wyk (Technoscan Centre, USA)
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DAY 3 - WEDNESDAY, 14 DECEMBER 2011

09:00 - 09:30	Keynote speech: The fully networked human-ity? - Innovations for the un-networked human. Alfredo Terzoli (Rhodes University, South Africa)
09:30 - 11:00	Session 7: Service Quality for a fully networked society Session chairman: Mostafa Hashem Sherif (General Chair, Kaleidoscope; AT&T, USA) <ul style="list-style-type: none"> ▪ S7.1 Regulation of Bearer / Service Flow Selection between Network Domains for Voice over Packet Switched Wireless Networks. <u>Nikesh Nageshar</u>, Rex Van Olst (University of the Witwatersrand, South Africa) ▪ S7.2 Accessibility support for persons with disabilities by Total Conversation Service Mobility Management in Next Generation Networks.* Leo Lehmann (OFCOM, Switzerland) ▪ S7.3 LabQoS: A platform for network test environments. <u>Luis Zabala</u>, Armando Ferro, Cristina Perfecto, Eva Ibarrola, Jose Luis Jodra (University of the Basque Country, Spain)
11:00 - 11:30	Coffee Break supported by the Department of Communications, South Africa
11:30 - 12:30	Special session: ITU and academia Part I: Strengthening collaboration between ITU and Academia – Interactive panel Panelists: Chris Clark (Head of Sector membership, ITU) Robert Shaw (Head of Innovation, ITU-D) Paolo Rosa (Head of Workshops and Promotion Division, ITU-T) Sabrina Camp (Membership officer, ITU-T) Norifumi Yamaguchi (Engineer, ITU-R) ITU academia member – Eva Ibarrola (University of the Basque Country, Spain)
12:30 - 13:30	Lunch supported by the Department of Communications, South Africa
13:30 - 14:30	Special session: ITU and academia Part II: ITU Standards and academia - Breakout session <ul style="list-style-type: none"> ▪ The importance of standards and standards education Kai Jakobs (Professor, RWTH Aachen University, Germany) Paolo Rosa (Head of Workshops and Promotion Division, ITU-T) ▪ ITU standards and ICT innovation Robert Shaw (Head of Innovation, ITU-D) Alfredo Terzoli (Rhodes University, South Africa) Martin Adolph (Project Officer, Standardization Policy Division, ITU-T) ▪ ITU academia members and ITU standardization Chris Clark (Head of Sector membership, ITU) Sabrina Camp (Membership officer, ITU-T) Norifumi Yamaguchi (Engineer, ITU-R) Mitsuji Matsumoto (Professor, Waseda University, Japan) Report back Moderator: Paolo Rosa (Head of Workshops and Promotion Division, ITU-T)
14:30 - 17:30	Special session: Future Internet Impacts on the Evolution of Next Generation Network Infrastructures and Services Thomas Magedanz (TU Berlin / Fraunhofer Institute FOKUS, Germany) [including coffee break]
17:30 - 18:00	Best Paper Awards and Young Author Recognition Ceremony
18:00 - 18:30	Wrap Up Session Session chairman: Kai Jakobs (RWTH Aachen University, Germany) Summary of the fourth Kaleidoscope conference (panel with session chairs)
18:30	Closing Alessia Magliarditi (Kaleidoscope Coordinator, ITU) Mostafa Hashem Sherif (General Chair, Kaleidoscope; AT&T, USA)

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For more information, please see: www.itu-kaleidoscope.org/2011

