

2013 IEICE ICTF

Information and Communication Technology Forum

Forum Program

May 29-31, 2013

Sarajevo, Bosnia and Herzegovina

ForumProgram

Day 1

29th May 2013

Opening 9:00—09:10	Conference Room 1 Opening Remarks Dr Haris Gacanin, Alcatel-Lucent Bell N.V., Belgium IEICE Europe Section, Chair
Communications 1	
(K-1) 9:10—09:50	Inter-industry Innovation Dr Yuji Inoue, Toyota ICT IEICE, President
(I-1) 9:50—10:10	Remote Monitoring of Life Functions in Home Environment and Information Fusion Network for Assistive Medical Decision Making Assoc. Prof. Imre Cikajlo, University Rehabilitation Institute, Slovenia
(I-2) 10:10—10:30	Nonlinearity Compensation in Coherent Optical Communication Systems Assoc. Prof. Darko Zibar, DTU Fotonik, Denmark
10:30—10:50	Coffe Break
Electronics	
(I-3) 10:50—11:10	A Few Applications of Superconducting Digital Electronics Assoc. Prof. Pascal Febvre, University of Savoie, France
(T-1) 11:10—11:30	Approaches in Implementing Multi-band CMOS Low Noise Amplifiers Dr Cristian Andriesei, Gheorghe Asachi Technical University of Iasi, Romania

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(T-2)

11:30—11:50

Noise Cancellation Techniques Used in CMOS Low Noise Amplifiers

Dr Cristian Andriesei,
Gheorghe Asachi Technical University of Iasi, Romania

11:50—13:10

Lunch

Communications 2

(K-2)

13:10—13:50

Disaster-resilient Multilayered Communications Network

Prof. Fumiyuki Adachi, Tohoku University, Japan

(I-4)

13:50—14:10

PAPR Reduction and Related Techniques for Power Efficient Multi-carrier/Multi-code Wireless Communication Systems

Dr Osamu Muta, Kyushu University, Japan

(T-3)

14:10—14:30

BER Performance Comparison Between OFDM/TDM and MC-CDMA with MMSE-FDE

Amir Ligata, IPSA Institute, Bosnia and Herzegovina,
Haris Gacanin, Alcatel-Lucent Bell N.V., Belgium

14:30—14:50

Coffe Break

Communications 3

(I-5)

14:50—15:10

Adaptive Powerline Communication Systems

Dr Haris Gacanin, Alcatel-Lucent Bell N.V., Belgium
IEICE Europe Section, Chair

(I-6)

15:10—15:30

DLC+VIT4IP: A High rate Narrowband PLC for Smart Grid Applications

Dr Bamidele Adebisi, Manchester Metropolitan University, UK

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(I-7)

15:30—15:50

Modeling Human Activity with Opportunistic Analytics

Dr Fahim Kawsar, Bell Labs, Belgium

(I-8)

15:50—16:10

**Innovation on M2M Communications Systems for Future Smart
Community**

Dr Shinichi Baba, Toshiba Research Europe Limited

(I-9)

16:10—16:30

**Recent Developments of Transmitter and Receiver
Integrated Circuits for Optical Front-ends**

Prof. Johan Bauwelinck, Ghent University, Belgium

(I-10)

16:30—16:50

**Photonic Technologies for Optical Fiber-wireless
Seamless Data Connectivity**

Prof. Idelfonso Tafur Monroy, DTU Fotonik, Denmark

19:00—21:00

Dinner



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Day 2

30th May 2013

Communications 4

(K-3)

8:30—09:10

Modelling Traffic Control Mechanism in Mobile Networks
Prof. Maciej Stasiak, Poznan University of Technology, Poland

(I-9)

9:10—09:30

Modelling of Multi-service Networks with Overflow Traffic
Assoc. Prof. Mariusz Glabowski, Poznan University of Technology, Poland

(T-4)

09:30—09:50

Quality of Multicast Trees in Ad-Hoc Networks
Maciej Piechowiak and Piotr Zwierzykowski, Poznan University of
Technology, Poland

(T-5)

09:50—10:10

**ShortestPathACO Based Strategy to Find the Shortest
Path Between Two Nodes**
Mariusz Głabowski, Bartosz Musznicki, Przemysław Nowak
and Piotr Zwierzykowski, Poznan University of Technology, Poland

10:10—10:30

Coffe Break

Engineering

(I-11)

10:30—10:50

Virtual Restoration and Analysis of Digitized Paintings
Prof. Aleksandra Pizurica, Ghent University, Belgium

(T-6)

10:50—11:10

**Context Aware Image Inpainting with Application
to Virtual Restoration of Old Paintings**
Tijana Ruzic and Aleksandra Pizurica, Ghent University, Belgium

(T-7)

11:10—11:30

Quantitative Microwave Imaging Based on a Huber Regularization
Funing Bai, Wilfried Philips and Aleksandra Pizurica,
Ghent University, Belgium

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(T-8)

11:30—11:50

A Study of Filter-Bank Processing of ECG Signal for Diagnostic Applications

Emir Turajlic and Dzenan Softic,
Sarajevo School of Science and Technology, B&H

11:50—13:30

Lunch

Communications 5

(I-12)

13:30—13:50

Cooperative Communications with Confidential Messages

Dr Ninoslav Marina, EPFL, Switzerland

(I-13)

13:50—14:10

RAN Capacity Incensement in Smartphone Era; Scenario and Technologies

Dr Hidetoshi Kayama, DoCoMo Beijing Labs, China

(T-9)

14:10—14:30

Energy efficiency of video broadcasting services in LTE Heterogeneous Networks

Dragan Rastovac¹, Chadi Khirallah², Dejan Vukobratovic¹
and John Thompson²

¹ University of Novi Sad, Serbia, ² University of Edinburgh, UK

(T-10)

14:30—14:50

A Solution for Improving BER Performance of OFDM based Simple Cooperative Relaying

Ugljesa Urosevic, Zoran Veljovic and Ana Jovanovic
University of Montenegro, Montenegro

14:50—15:10

Coffe Break

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Communications 6

(T-11)

15:10—15:30

A Delay-aware NUM-driven Framework with Terminal-based Mobility Support for Heterogeneous Wireless Multi-hop Networks

Salvatore Vanini¹, Dario Gallucci¹, Silvia Giordano¹ and Andrzej Szwab²

¹Information Systems and Networking Institute SUPSI, Switzerland

²Poznan University of Technology, Poland

(T-12)

15:30—15:50

Sphere and Cone Composite Realtime Shadows in OpenGL

Aldina Pljaskovic¹, Dzenan Avdic¹, Petar Spalevic² and Dejan Rancic³

¹State University of Novi Pazar, Serbia

²Faculty of Technical Science Kosovska Mitrovica, Serbia

³Faculty of Electrical Engineering, University of Nis, Serbia

(T-13)

15:50—16:10

Boosting Committee Machines to Detect the Parkinson's Disease by Neural Networks

Mehmet Can

International University of Sarajevo, Bosnia and Herzegovina

16:10—16:30

Closing

16:30—17:00

IEICE-EUS Meeting