

The 3rd IEEE Lebanon Communications Research Day (LCRD'15)

Organized by the IEEE Communications Society, Lebanon Chapter
In Collaboration with the School of Engineering
at the Lebanese American University

Location: LAU – Byblos, Selina Korban Auditorium
Date: Saturday April 25, 2015

Detailed Program

08:30 – 09:00 Welcome and Registration

09:00 – 09:30 Opening Session

- Dr. Chadi Abou-Rjeily, Organizing Committee, LAU.
- Dr. Sara Abou Chakra, Vice Chair of IEEE ComSoc, Lebanon Chapter.
- Dr. Georges Nasr, Dean of the School of Engineering, LAU.

09:30– 10:00 Plenary Session I [Chair Dr. Hassan Artail, AUB]

- **Cloud Computing: When it's smarter to rent than to buy!**, Dr. Nada Chendeb, *Department of Electrical and Electronic Engineering, Lebanese University.*

10:00 – 11:00 Session I: Special session on Antennas, propagation and bio-electromagnetics [Chair: Dr. Ali Harmouch, LU]

- **On the advancement of slotted waveguide antennas for high power applications**, Hassan Haddad, *Lebanese University.*
- **Miniaturized and Ultra-wideband planar antenna for indoor applications**, Ahmad El Sayed Ahmad, *AUL, Lebanon.*
- **Biological effects of internet routers in indoor environments on human health**, Nathalie Ghazi, *NDU, Lebanon.*
- **Impact of human hair configuration on the human head absorption rate**, Rabih Barake, *ULF, Lebanon.*

11:00 – 11:30 Coffee Break

11:30 – 13:00 **Session II** [Chair: Dr. Youssef Nasser, AUB]

- **Performance Analysis, Diversity Order and Aperture Allocation for MIMO FSO Systems with Serial Relaying**, Alfred Abdo and Chadi Abou-Rjeily, *LAU, Lebanon*.
- **Proactive Algorithm to Reduce Power Consumption in Cellular Networks**. Rana Kanso, Mohammad Azizi and Michel Nahas, *Lebanese International University, Lebanon*.
- **Finite-SNR Diversity-Multiplexing Tradeoff for Rayleigh MIMO Channels**, Ammar El Falou, *Lebano – Français University, ULF, Lebanon*.
- **SATFINDER: Smart Satellite Finder System**, Michel Owayjan, Mohamed Eladham, Wael Kmash, and Mohammad Moussa, *AUST, Lebanon*.
- **A Study on the importance of exploiting Relay-Relay links in FSO communications**, Zeina Noun and Chadi Abou-Rjeily, *LAU, Lebanon*.
- **Performance evaluation of user centric multihoming strategies in LTE/ WiFi networks**, Nada chendeb, Ghina Dandachi, Salah eddine elAyoubi and Tijani Chahed, *Telecom SudParis, France*.

13:00 – 14:00 **Lunch Break**

14:00 – 15:30 **Session III** [Chair: Mr. Rami Assoum, Alfa]

- **Cross-Layer Scheduling Algorithm in LTE Multiservice Networks**, Naila Bouchemal, Rola Naja and Samir Tohme, *University of Versailles - PRISM Laboratory, France*.
- **Collaborative Measurement of Internet Quality in Lebanon**, Marc Ibrahim, *Saint Joseph University, Lebanon*.
- **Relaying techniques for 4G/LTE-Advanced**, Asmaa Abdallah and Dina Serhal, *Rafic Hariri University, Lebanon*.
- **Dense Area Networks: Enabling Device-to-Device Communications**, Ali Jaafar, Zeina Abdel Khalek and Michel Nahas, *Lebanese International University, Lebanon*.
- **Planning of Femtocell Networks**, Mahmoud Al Hayek, Maryam Al Shami, Omar Ghamrawi and Youmni Ziadeh, *Beirut Arab University, Tripoli, Lebanon*.
- **SemIndex: Designing and Implementing a Semantic-Aware Inverted Index**, Marc Al Assad, Joe Tekli, *LAU*, Richard Chbeir, Kokou Yetongnon, Yi Luo, *Univ. of Bourgogne, Dijon, France*, Carlos Raymundo Ibanez, *Univ. Peruana de Ciencias Aplicadas, Lima, Peru*, Agma J. M. Traina and Caetano Traina Jr., *ICMC, Univ. of Sao Paulo, Brazil*.

15:30 -16:00 **Coffee Break**

16:00– 16:30 **Plenary Session II** [Chair: Charles Yaacoub, USEK]

- **Semantic to Intelligent Web Era: Building Blocks, Applications, and Current Trends**, Dr. Joe Tekli, *Department of Electrical and Computer Engineering, Lebanese American University (LAU), Lebanon.*

16:30 – 17:45 **Session IV** [Chair: Dr. Roger Achkar, AUST]

- **Quantum Cryptography and Chaos for the transmission of security keys in 802.11 networks**, Rabiha Rostom and Bacem Bakhache, *Lebanese University.*
- **Integration of CoAP in BAN**, LinaNachabeh and BacharElHassan, *Lebanese University*, Marc Girod Genet, *Telecom SudParis.*
- **Energy Control and Balance in smart grids**, Zeina Ayach, Rana Rahim-Amoud, *EDST, Centre-Azm, (LaSTRe) Lebanese University.*
- **Efficient Dynamic Mobile Sensing Strategies for Context-Aware Applications**, Sireen Taleb, *American University of Beirut, Lebanon.*
- **Experimental assessment of Multipath TCP (MPTCP) protocol**, Ammar El Falou, *ULF, Lebanon.*

17:45 –18:00 **Closing Session** [Chair: Mr. Ahmad El-Hajj, AUB]

IEEE LCRD'15 Co-Chairs:

Dr. Chadi Abou-Rjeily [LAU]

Dr. Bachar El Hassan [LU]

Sponsored by: The Lebanese Association for Scientific Research, **LASeR**