

# SECOND IEEE LEBANON COMMUNICATIONS STUDENT COMPETITION 2012 [IEEE LCSC'12]

SATURDAY JULY 7, 2012 - 8:30-14:30

## PROGRAM

8:30 - 9:00 REGISTRATION

9:00 - 11:00 PLENARY SESSION  
DEAN MAKRAM SUIDAN [FEA, AUB]  
DR. MUSTAPHA JAZAR  
[PRESIDENT, LASER]  
MR. OMAR CHRISTIDIS  
[FOUNDER & CEO, ARABNET]  
MS. DANA SLEIMAN  
[BUSINESS INNOVATION MANAGER, ERICSSON]

11:00 - 11:30 COFFEE BREAK

11:30 - 12:30 PROJECT PRESENTATIONS

12:30 - 14:00 PROJECT DEMOS

14:00 - 14:30 AWARDS DISTRIBUTION

PLATINUM CORPORATE SUPPORTER



SILVER CORPORATE SUPPORTER



## **Second IEEE Lebanon Communications Student Competition 2012 (IEEE LCSC'12)**

### **IEEE Communications Society Lebanon Chapter**

**Saturday July 7, 2012**

#### **Group I: Mobile Applications and Smart Phones**

1. Moodle Mobile Notifier for Android Smartphones [AOU] [Veli Ornek]
2. A Context-Aware Sensing Platform for Personal Recommenders on Mobile Devices [AUB] [Arij Mahjoub, Dina Kanaan, Mousbah El-Fil]
3. iSENSE: Intelligent Sensing System for Mobile Devices with Application to Emotion Ground Truth Detection [AUB] [Ghina Ajour Noura Farra]
4. Het App: Energy-Aware Mobile Application for Heterogeneous 3G/Wi-Fi Networks [AUB] [Mohamad Dia, Jamal Farhat, Sireen Taleb]
5. Cura: Remote System Administration Mobile Application [AUST] [Ahmad Balaa - Oday Maleh]
6. i-Display Using Smart Phone Application [AUST] [Riham Pharaoun, Mahmoud Al Ahmar and Abdulkader Rokaya]
7. Park by Phone [AUST] [Sarah Halawi, Moussa Ismail Kamar, Abbass Kassab]
8. Colony Collapse Disorder [AUST] [Reem Takash, Nashaat El Halabi, Samer El Halabi]
9. Mobile Heart Rate Monitor [HCU] [Reem Abou Marak/Brome, Tala El Zaatari, Ghazi Wehbi]
10. Designing and Implementing a Routing Protocol for Smart Phones [IUL] [Fadel Abbas, Wissam Jaafar]
11. Rover 5 Control via Smartphone [LAU] [Mohamad Berro, Farhan Al Ghareeb]
12. Bluetooth Multi-hop Ad Hoc Network [UPA] [Mireille Bechaalani, Joyce Makhlof]

#### **Group II: Systems and Devices**

1. Firoxio: Forest Fire Detection and Alerting System [AUST] [Samy Mallah, Sami Fardissi, Nadim Tahan]
2. Mine Detection Robot with Moveable Scan Head [IUL] [Mahdi Srour, Khoulood Nazza]
3. Blind Indoor Audio Guidance System [IUL] [Hussein Wazneh]
4. Indoor Localization using RFID [IUL] [Mahdi Maatouk, Mohammad Harb]
5. Automated Attendance System (AAS) [LAU] [Reem Al Khatib, Sahar Hanna]
6. Digital Wireless Modem using Walkie-Talkie [LIU] [Reem Karaki, Marwa Rammal]
7. Home Automation Control System Through the Mobile Internet "MI" [LU] [Jawad Saymouaa, Makram Abou Ghannam]
8. Map Reading Robot [NDU] [Maroun Habib, Samah El Hassanie, Jalal Matar]
9. Sensabeat Portable Hardware Device [NDU] [George Abou-Samra, Elie Kassis, Anastasia Ghosh]
10. Shopping using a Portable RFID and Wi-Fi Enabled Device [NDU] [Hadeel Abou Hamdan, Raghid Morcel]
11. Wireless Charging of Electric Vehicles [NDU] [Taymour Narch, Dunia Abdalbaki]

### **Group III: Algorithms, Simulations, and Software**

1. H.A.W.K: Handling Analysis of Wired-Networks to Give Knowledge [AOU] [Mohammad Soubra]
2. Pathloss Propagation Model Calibration Tool [AUB] [Mohammad Hallak Fakhran, Ghassan Nahle, and Kassem Salameh]
3. IEEE 802.16e Mobile WiMAX Uplink PHY-Layer Matlab Simulation and FPGA Hardware Implementation [BAU] [Hassan Hawilo, Kassem Al Sabea, Tofik Ghandour, Ibrahim Hijazi]
4. A Novel Frequency Hopping Scheme for Secure and Reliable Communication Systems [HCU] [Diana Sidani, Wassim Itani]
5. Improving the Efficiency of Wireless Sensor Networks using the Principles of Genomic Robustness. [LU] [Nour El Mawass]
6. Simulation of a Digital UHF Communication System with HP-ADS [LU] [Mohammad Zain, Ahmad Alhussein]
7. Denoising of Digital Images Corrupted by Speckle Noise [USEK] [Adib Akl, Kamal Tabbara]
8. Joint Decoding Techniques in Cooperative Wireless Sensor Networks [USEK] [Anthony Beylerian, Ralph Stephan]
9. Fast and Secure Key Agreement Protocol for the Security of Wireless Networks [USEK] [Elie El Hamawi]
10. Quantum and Chaotic Encryption over WiFi [USEK] [Rosette Maria Bichara]