

# **2016 3rd International Conference on Advances in Computational Tools for Engineering Applications (ACTEA 2016)**

**Zouk Mosbeh, Lebanon  
13 – 15 July 2016**



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# Program

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11:00 am-12:40 pm				Session I (A): Electronics & FPGA	
11:02 am-12:40 pm			Session I (C): French Session I		
03:40 pm-04:00 pm		C2: Coffee Break			
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02:40 pm-03:20 pm			Key 5: : Seddik Bacha		
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## Tuesday, July 12

### Tuesday, July 12, 14:00 - 18:20

#### Welcome Reception & registration

## Wednesday, July 13

### Wednesday, July 13, 07:45 - 16:00

#### Registration Check In

### Wednesday, July 13, 09:00 - 09:30

#### Opening Ceremony

### Wednesday, July 13, 09:30 - 10:30

#### Key1: Keynote Speaker I: Prof. Kamal Al-Haddad

(Ecole de Technologie Supérieure, Montreal, Canada)  
**Power Electronic Converters for Renewable Energy**

Room: Issam Fares Hall

Chair: Semaan Georges (Notre Dame University-Louaize, Lebanon)

### Wednesday, July 13, 10:30 - 11:00

#### C1: Coffee Break

Coktail

Room: Conference Business Center

**Wednesday, July 13, 11:00 - 12:40**

**Session I (A): Electronics & FPGA**

Room: Issam Fares Hall

Chairs: Kamal Al-Haddad (Ecole de technologie supérieure, Canada), Semaan Georges (Notre Dame University-Louaize, Lebanon)

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Room: Issam Fares Hall  
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Room: Friends Hall  
Chair: Rita Najjar (Lebanese University, Lebanon)

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Room: Conference Business Center

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Room: Issam Fares Hall  
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## **Wednesday, July 13, 16:01 - 17:40**

### **Session III (C): Energy Saving & Energy Storage**

Room: Friends Hall

Chairs: Adnan Jouni (UL-ALMEE, Lebanon), Imad Mougharbel (Lebanese University, Lebanon)

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### **SV 1: Social Event I**

## **Thursday, July 14**

## **Thursday, July 14, 09:00 - 10:10**

### **Key 2: Abdulmotaleb El Saddik**

Smart Cities - A Multidisciplinary Research

**(Distinguished Professor and University Research Chair University of Ottawa, Canada )**

Room: Issam Fares Hall

Chair: Abdallah Kassem (Notre Dame University, Lebanon)

**Thursday, July 14, 10:00 - 10:30**

**C3: Coffee Break**

Room: Conference Business Center

**Thursday, July 14, 10:29 - 12:20**

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Room: Issam Fares Hall

Chairs: Abdulmotaleb El Saddik (University of Ottawa, Canada), Luigi del Re (Johannes Kepler University Linz, Austria)

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### **L2: Lunch Break**

Room: University Restaurant

## **Thursday, July 14, 14:00 - 14:40**

### **Key 3: Stéphane Ploix**

(Towards interactive Smart Buildings)

**Grenoble Institute of Technology, France**

Room: Issam Fares Hall

Chair: Imad Mougharbel (Lebanese University, Lebanon)

## **Thursday, July 14, 14:40 - 15:20**

### **Key 4: Georges Barakat**

(Recent Developments and Future Trends for Multi-Mega Watts Wind and Tidal Generators)

**Université Le Havre, France**

Room: Issam Fares Hall

Chair: Mazen Ghandour (Univeriste Saint Joseph- ESIB, Lebanon)

### **Key 5: Seddik Bacha**

(Réseaux Intelligents et Micro-Réseaux)

**General Manager**

Room: Friends Hall

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Room: Conference Business Center

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Room: Issam Fares Hall

Chair: Najib Metni (Notre Dame University - Louaize, Lebanon)

***Aging Effect on Apples Bio-impedance using AD5933***

Ahmed Abo bakr (Nile University, Egypt); Ahmed Radwan (Faculty of Engineering, Cairo University, Egypt); Ahmed H. Madian (Egyptian atomic energy authority, NCRRT, Egypt); Ahmed Elwakil (University of Sharjah, United Arab Emirates (UAE)).....158

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**Session V (C): Solar Energy**

Room: Friends Hall

Chairs: Ali H Assi (Lebanese International University, Lebanon), Semaan Georges (Notre Dame University- Louaize, Lebanon)

3:40-4:00 Using Double-Layer Thin Film Coating With Meta-Material to Increased Transmission for Solar Cell Mohamad Habli (Lebanese International University, Lebanon), Sara Ossaily and Mahmoud Fardoun (LIU, Lebanon).....N/A

4:00-4:20 My PV TOOL A Matlab-Based Tool to Study the Series and Shunt Resistances in Photovoltaic Modules Mohamad Arnaout (LIU & Electrical Engineer, Lebanon), Ali H Assi, Wassim Salameh and Khaled A. Chahine (Lebanese International University, Lebanon).....N/A

4:20-4:40 Implementing a Didactic Photovoltaic Energy Laboratory for Developing Countries Bechara Nehme (Holy Spirit University of Kaslik (USEK)), Tilda Akiki (University Holy Spirit Kaslik, Lebanon).....N/A

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5:00-5:20 A Performance Evaluation of an Installed Photovoltaic System without Energy Storage Achraf Nasser eddine and Imad Hage chehade (Industrial Research Institute (IRI), Lebanon).....N/A

5:20-5:40 Voltage Control of Power Distribution Networks with Photovoltaic Distributed Generations Semaan Georges (Notre Dame University-Louaize, Lebanon).....N/A

5:40-6:00 The Role of Geothermal Energy in Efficient Building Performance, Farah El Zein (Lebanese University, Lebanon), Osama Omar (Beirut Arab University, Lebanon), Nizar Hage (Lebanese University, Lebanon).....N/A

## Thursday, July 14, 18:00 - 23:00

### SV 2: Social Event II

## Friday, July 15

## Friday, July 15, 09:00 - 10:00

### Key 6: Dawn Bardot

The Medical Device Innovation Consortium - Regulatory Grade Computer Modeling and Simulation  
**Vice President, Technology Innovation, Medical Device Innovation Consortium, Minneapolis, USA**

Room: Issam Fares Hall

Chair: Najib Metni (Notre Dame University - Louaize, Lebanon)

## Friday, July 15, 10:00 - 10:30

### C5: Coffee Break

Room: Conference Business Center

## Friday, July 15, 10:30 - 12:30

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Room: Issam Fares Hall

Chair: Chady El Moucary (Notre Dame University, Lebanon)

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## **Session VI (C): Renewable Energy Resources**

Room: Friends Hall

Chair: Talal Salem (Notre Dame University - Louaize, Lebanon)

**Friday, July 15, 12:30 - 14:00**

## **L3: Lunch Break + Awards**

Room: University Restaurant

**Saturday, July 16**

**Saturday, July 16, 07:30 - 14:00**

**Free Day**

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