

AEECT 2017 is a listed IEEE conference and is the fourth of a series of conferences organized by the IEEE – Jordan Section. This year, AEECT 2017 is hosted by the University of Jordan. It provides a unique forum to discuss practical approaches and state of the art findings pertinent to applied electrical engineering and computing technologies.

AEECT 2017 will include keynote addresses, panel discussions, tutorials, and regular papers. All papers will be peer reviewed by at least three reviewers based on full paper submission. Accepted papers will be published in the AEECT 2017 proceedings and the presented regular papers will also be submitted to the IEEE Xplore® digital library and indexed in Scopus. Authors of selected papers will also be invited to prepare extended papers of their work for publication in a collection of specialized journals.

## Organizing Committee

### General Chair

Gheith Abandah, IEEE – Jordan Section

### Vice Chair

Tarek Tutunji, Philadelphia Univ.

### Technical Program Chairs

Ghazi Al Sukkar, Univ. of Jordan  
Essam Qaralleh, Princess Sumaya Univ. for Technology

### Secretary

Yousef Jaradat, Al-Zaytoonah Univ.

### Organization Chair

Mudar Almaani, Al-Hussein Bin Talal Univ.

### Publications Chair

Ibrahim Al-oqily, Hashemite Univ.

### Track Chairs

#### Biomedical Engineering

Awad Al-zaben, Yarmouk Univ.

#### Communications

Ala' Khalifeh, German Jordanian Univ.

#### Computer Eng. and Networks

Abdel-Karim Al-Tamimi, Yarmouk Univ.

#### Control and Mechatronics

Lutfi Al-Sharif, Univ. of Jordan

#### IT Applications and Systems

Ali Maqousi, Petra Univ.

#### Power and Energy Systems

Eyad Abu-Al-Feilat, Univ. of Jordan

#### Industrial Projects and Applied Research

Yousef Al-Abdallat, Faculty for Factory (FFF) program

### Publicity and Public Relations Chairs

Mwaffaq Otoom, Yarmouk Univ.  
Omar Daoud, Philadelphia Univ.  
Mohammad Salah, Tabuk Univ.

### Volunteers Coordinators and Web admin

Feras Diab, IEEE – Jordan Section

### Treasurer

Khalid Jaber, Al-Zaytoonah Univ.

The AEECT 2017 topics include, but are not limited to:

#### 1) Biomedical Engineering

- Biomedical signal processing
- Biomedical instrumentation
- Biomedical systems modeling
- Micro & nano-technologies in medicine
- Wearable & implantable devices
- Medical informatics
- Biomedical imaging & image processing
- Biomechanics & biomaterials

#### 2) Communications

- Wireless & mobile communications
- Digital signal processing
- Cooperative communications
- Coding & information theory
- Satellite & optical communications
- Smart grid communication
- Visible light communication
- Wireless sensor networks
- Big MIMO & mmWaves
- Antennas & microwave

#### 3) Computer Engineering and Networks

- Computer architecture
- Parallel and high performance computing
- Operating systems
- Robotics and human-computer interaction
- Data security & privacy
- Computer networking
- FPGA-based digital circuits and VLSI
- Embedded systems and IoT

#### 4) Control and Mechatronics

- Control methods & systems
- Modeling & simulation
- Mechatronic system design
- System identification
- Manufacturing methods
- Automation
- Instrumentation
- Intelligent systems
- Robotics
- Unmanned vehicles

#### 5) IT Applications and Systems

- Data structure & algorithms
- Web applications
- Arabic & natural languages processing
- Digital services
- Artificial intelligence
- Mobile applications
- Cloud computing & applications
- Big data
- Software engineering
- Image processing & pattern recognition

#### 6) Power and Energy Systems

- Power system protection, planning & control
- Power system transmission & distribution
- Electrical machines & transformers
- Power quality, reliability & planning
- High voltage systems
- Power electronics & industrial drives
- Renewable & sustainable energy technologies
- Distributed generation, smart & micro-grids
- AI applications in power systems
- Electricity market & power system economics

#### 7) Industrial Projects and Applied Research

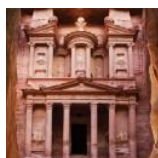
- Product development
- Manufacturing process & materials
- Industrial academic collaboration
- Entrepreneurship & innovative projects
- Technology transfer best practices
- Case studies

### Important Dates

Paper Submission Deadline	April 30, 2017 -> <b>Extended to June 21, 2017</b>
Review Decision Notifications	June 18, 2017 -> <b>Extended to July 6, 2017</b>
Early Registration	June 18 – Aug 27, 2017
Final Submissions	Aug 27, 2017
Conference Dates	Oct 11 – 13, 2017

**Contacts:** E-Mail: [info@aeect.net](mailto:info@aeect.net)

Phone: +962-77-5681092



The conference is hosted by the [University of Jordan](http://www.uj.edu.jo), the oldest and largest university of Jordan, located in Amman, the capital city of Jordan. The social program of this conference includes gala dinner with folklore entertainment, a visit to the Dead Sea, and optional trips to Petra and Wadi Rum. [The Dead Sea](http://www.deadsea.gov.jo) is a salt lake which surface and shores are 427 meters below sea level, Earth's lowest elevation on land. [Petra](http://www.petra.gov.jo) is the archaeological city in southern Jordan, famous for its rock-cut architecture.

