



Jordan Engineers Association

The 9th Jordan International Electrical and Electronics Engineering Conference (JIEEEEC 2015) Share your research – GO GLOBAL!



The 9th Jordan International Electrical and Electronics Engineering Conference (JIEEEEC 2015), will be held in Amman, Jordan, from 12 - 14 October 2015. The conference committee has set up a high quality technical program, where researchers from around the globe will present their ideas and cutting edge research.

Accepted papers will be published in the proceedings of the conference as well as on IEEE Explore.

Authors of selected papers will be invited to publish extended versions of their work in JEA Journal of Electrical Engineering (JEAJEE). JIEEEEC 2015 is organized by the Jordan Engineers Association (JEA) in cooperation with the Jordan Sections of the Institution of Engineering and Technology (IET), the Institute of Electrical and Electronics Engineers (IEEE), and the EU-MOSAIC Project.

We invite you to submit your papers, mark this event on your calendar, and get ready to share your research and GO GLOBAL!

Organizing Committee

General Chair

- Moussa Habib, Jordan Engineers Association, Jordan

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- Ibrahim Ghareeb, Jordan University of Science and Technology

Symposia Chairs

- Abdoul Rjoub, Jordan University of Science and Technology
- Dia Abu-Nadi, German Jordanian University, Jordan
- Jamal Rahhal, University of Jordan
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- Waleed Banihani, Jordan Engineers Association, Jordan
- Wijdan Al-Rabadi, IET, Jordan
- Yasin Al Shiboul, Al-Balqa' Applied University, Jordan

Conference Coordinator

- Mohammed Al-Ali, JEA, Jordan
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Exhibition Coordinator

- Hani Ghanem, JEA, Jordan
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Technical Program

- Technical Symposia - providing numerous technical sessions with papers presenting the latest technical advances through peer-reviewed papers. Prospective authors are invited to submit original technical papers for presentation at symposia and publication in the conference proceedings from the Conference Symposia:
 - Communications - Computers - Power and Energy
 - Bio-Medical Applications - Nano-electronics & Applications
- Tutorials - offering education for keeping up with new and emerging topics essential for today's engineering and technology environment.
- Workshops - with specialized focus on the latest breakthroughs in the fields of the technical symposia technologies, in an environment that encourages discussion and debate.

Submission Guidelines

JIEEEEC 2015 accepts only novel, previously unpublished papers in the areas of the conference technical symposia. Prospective authors are encouraged to submit a PDF file of a full paper following the IEEE single-space, two-column format using at least 10 point size type. Please use only standard fonts such as Times Roman, Courier, Symbol, and Helvetica. The IEEE LaTeX and Microsoft Word templates, as well as related information, can be found at the IEEE website. Manuscripts should not exceed 6 pages in size including all text, figures, tables, and references. Paper submission is managed through EDAS: <http://edas.info/N18925>. All papers must be submitted in PDF format. Submission of a paper should be regarded as an undertaking that, should the paper be accepted, at least one of the authors will register for the conference and present the work.

Complete paper submission due: 01/03/2015;

Acceptance notification due: 30/06/2015;

Camera-ready due: 31/07/2015

• Keynote Forum – where top industry leaders share their visions and experiences, and challenge us in exciting new technologies.

• **SPARK Exhibition** is accompanying the conference where major vendors and service providers have the opportunity to display their products.

Conference Update: www.jeaconf.org/jieeeec

Details about Exhibition: www.jordan-fairs.com

Symposia Chair

Communications

- Jamal Rahhal, University of Jordan

Computers

- Raed Abuzitar, American University of Madaba, Jordan

Medical Technology & Applications

- Dia Abu-Nadi, German Jordanian University, Jordan

Power and Energy

- Osama Saadeh, JUST, Jordan

Nano-electronics & Applications

- Abdoul Rjoub, JUST, Jordan

Technical Program Committee

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- Asaad Makki, Ford Motor company.
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- Hiroshi Ishiguro (Osaka University)
- Jeremy Bailenson, Stanford University
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- Rustom Mamlook, Dhofar University
- Takayuki Kanda (ATR)
- Walid Al-Ahmad, Gulf University of Science and Technology
- Osama Saadeh (JUST)
- Saher Albatran (JUST)
- Issam Smadi (JUST)
- Tarek Ahmed (JUST)
- Mohammad Widyan (HU)
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- Ahmad Harb (GJU)
- Zakariya Dalala (GJU)
- Mahmood Saadeh (UofA)
- Ala Hussein (UAEU)

Symposium on Medical Technology & Applications

- Biomedical electronics
- Biomedical Nanotechnology
- Biomedical Signal, and Image Processing Cardiovascular, Respiratory and Neural
- Physiological Measurements
- Bio Measurements and Instrumentations Sensors, Micro/Nano
- Biometrics Industrial Electronics
- Biomedical Modeling and Simulation
- Healthcare Information System: Telemedicine eHealth, and mHealth
- Rehabilitation and Therapeutic Health System
- Healthcare Information System
- Other related areas in Biomedical Engineering

Symposium on Communications

- Transmission Technologies and Communication Theory
- Antennas, Propagation and RF Design
- Spectrum Efficient Management, Sensing and Cognitive Radio
- Multiple Antenna Systems and Services
- Cooperative Communications, Distributed MIMO and Relaying
- Wireless / Radio Access Technologies
- Mobile Network Applications and Services
- Ad-hoc, Mesh, Machine-to-Machine and Sensor Networks
- Wireless Networks and Security
- Green Communications and Networks
- Digital Signal Processing
- Optical Networks and Systems
- Satellite Networks, Positioning Technologies, Localization and Navigation
- Future Trends and Emerging Technologies
- Other related areas in Communications

Symposium on Computers

- Robotics, Neural Networks, and fuzzy systems
- Computer and Network Security
- Computer Architecture and VLSI
- Computer Graphics
- Human-Computer Interface & Visualization
- Operating and Distributed Systems
- Parallel Processing
- Software Engineering and CASE
- Cloud computing
- Web Semantics
- Smart Systems

Symposium on Power and Energy

- Electric Vehicle and Traction Systems
- Generation, Transmission and Distribution
- Machines and Motor Drives
- Power Electronics & Energy Conversion
- Renewable Energy Systems
- Electric Power System Stability and Control
- Protective Relaying
- Hybrid Energy Systems
- Energy Storage Systems
- Smart Grid Systems

Symposium on Nano-electronics & Applications

- Low power design: special architectures, high performance low power systems, ultra low power systems.
- Modeling and synthesis: low-voltage, timing, interconnect, power, crosstalk
- Timing design: clocking, synchronization, asynchronous and self timed systems, adiabatic switching.
- Optimization: low voltage low power logic families, logic parallelization, pipelining, fast low power arithmetic performance and power consumption
- Physical design: module generation, library optimization and characterization, area estimation.
- Physical test and characterization: low VT low voltage process, SOI, IDDQ, models and parameter extraction, experimental design for process control.
- modeling, design, characterization, analysis and optimization of variability
- Design methods and CAD tools: for low voltage low power design, high speed circuits.
- Trade-offs between devices, architectures and technologies, benchmark comparison.

Keynote Speeches:

- **Effects of uncertain channel modeling on spectrum sensing**

Ezio Biglieri

Universitat Pompeu Fabra, Barcelona, Spain

- **Interpreting Brain Rhythms for the Assessment of Brain Injury**

Hasan Al-Nashash

American University of Sharjah

- **Smart Solar Energy Conversion Technologies: Jordan's Opportunity**

Issa Batarseh

Princess Sumaya University for
Technology University of Central Florida

- **Extending grids in a changing energy system**

Wolfgang Braun:

Head of Power Transmission, Siemens Middle East

- **The role of HVDC and FACTS in the network of the future**

Mohamed Rashwan

TransGrid Solutions (TGS) - Winnipeg- Canada

- **Why and How of Green Communications**

Pavel Loskot

Swansea University, United Kingdom

- **How to Make your Security 'Aware' in a BYOD World**

Bashar Bashaireh

Regional Director – Fortinet Middle East

- **Automatic Supervision of Grid Connected PV Systems**

Santiago Silvestre

MNT Group- Electronic Engineering Department
Universitat Politècnica de Catalunya UPC-BarcelonaTech

- **Integration of tools for plant and automation co-design**

Sebastian Engell

Head Of The Department Of Biochemical And Chemical
Engineering, Technical University Of Dortmund, Germany

- **Hardware Implementations of Crypto Systems**

Odyseas Koufopavlou

ECE DPT, UNIVERSITY OF PATRAS, GREECE

Workshops:

- **QUANTITATIVE CLINICAL NEUROENGINEERING**
Hasan Al-Nashash

American University of Sharjah - UAE

- **Are Power Quality Problems Really Challenging Distribution Systems?**

Mohammad Hassan AlZoubi

Yarmouk University

- **PSS®SINCAL Smart Grids and Micro Grids**
Dipl.-Ing. Ulrike Sachs

Senior Key Expert for System Planning Software
Senior Product Manager
SIEMENS

- **Principles of Hybrid Vehicles**
Nour Al-din Sameer Orabi

Central Trade & Auto. CO.

- **Get Ready for HORIZON 2020**
Abdoul Rjoub

Svetlana Klessova, Soraya Bernard
Jordan Europe Wide Enhanced research Links in ICT

- **Fortinet Security Workshop**

Ahmad M. Arafat

Fortinet Middle East

- **Previous Event in figures:**

- **Submitted Papers: 84**

- **Approved Papers: 57**

- **Communication Papers: 25**

- **Power and Renewable: 17**

- **Nano-Tech. & Bio-Med: 10**

- **Computer Eng.: 5**

- **Keynote Speeches: 10**

- **Workshops: 6**

- **Participants in Conference and Workshops: 650**

- **Exhibition: 35 Exhibitors (28 Local+7 Int.)**

Details:

Conference: www.jeaconf.org/jieeec

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Exhibition: www.jordan-fairs.com

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