

# Call for Papers on ICCMIT 2017

## “The Era of Sensor Networks”

### Organized by:

Manal Abdullah, Associate Prof.  
Department of Computer Science,  
Faculty of Computing and Information Technology, FCIT  
King Abdulaziz University, KAU  
E-mail: [maaabdullah@kau.edu.sa](mailto:maaabdullah@kau.edu.sa)

### Objectives and Motivation

Sensor Networks were initially designed to facilitate military operations but its application has since been extended to health, traffic, and many other consumer and industrial areas. Sensor networks is an interdisciplinary field including many fields such as wireless networks and communications, protocols, distributed algorithms, signal processing, embedded systems, and information management.

The conference session entitled “*The Era of Sensor Networks*” is expected to exchange ideas and thoughts about impacts of sensor networks research on the state of the art as well as upcoming trends of issues related to research and applications of distributed and wireless/wired sensor and actuator networks.

### Scope and Interests

A large number of important applications depends on sensor networks interfacing with the real world. These applications include medical, military, manufacturing, transportation, safety and environmental planning systems, and others. Sensor fusion in the context of distributed sensor networks has emerged as the method of choice for resolving these problems.

Topics of the session may include, but not limited to, the following:

- Energy efficiency and energy efficient protocols
- Location techniques, routing, medium access control
- Network resource management, network protocols, lightweight protocols
- Fault tolerance/diagnostics
- In-network processing and aggregation
- Mobility and Task Coordination
- Performance analysis/evaluation of Sensor Networks
- Sensor tasking and control
- Security, privacy, data integrity
- Modelling of systems/physical environments, simulation tools/environments
- Smart Sensors and Transducers
- Chemical, Biological, Optical and Magnetic Sensors
- Wireless Sensors Measurement Systems
- Data Acquisition Systems and Techniques
- Intelligent Control
- Detection / Classification Methods
- Distributed Sensor Networks - Networking / Caching Issues
- Managing Resource Constraints
- Cooperative Signal Algorithms for Sensor Networks
- Applications:
  - Industrial monitoring
  - Environmental/Earth sensing
  - Process Management
  - Health care monitoring
  - Home Security
  - Agriculture

- Biomaterial
- Education
- Commercial Development
- Non-destructive Measurement and Monitoring
- Manufacturing and Production

### **Paper Submission Important Dates**

All instructions and templates for submission can be found in the ICCMIT 2017 web site: <http://www.iccmit.net/>. Please, contact the special session organizers if you are planning to submit any paper.

<b>Paper abstract submission:</b>	<b>February 15, 2017</b>
<b>Notification of acceptance:</b>	<b>February 28, 2017</b>
<b>Final paper submission and authors camera ready:</b>	<b>March 7, 2017</b>
<b>Conference Dates:</b>	<b>April 3-5, 2017</b>