

# THE JOURNAL OF ENGINEERING

IET Open Access Research

## SPECIAL ISSUE:

### EVOLUTION OF INSTRUMENTATION AND ELECTRONICS SYSTEM TECHNOLOGIES IN SMART GRIDS

The Evolution of Instrumentation and Electronic Systems in the design of controllers plays a vital role in smart grid configurations. Industrial systems, control and monitoring systems, smart buildings, data analysis systems, diagnosis systems, smart systems and information technology systems will eventually require the use of intelligent systems, innovative technologies and embedded systems and therefore there is increasing interest in technologies that are focussed on the fabrication of switches, modelling, design, analysis, and application of instrumentation and electronic systems, especially for low power application.

This special issue brings together contribution from researchers and practitioners on innovation advances, evolution of novel technologies and smart systems of instrumentation, electronics systems and new low power electronics systems and topologies.

#### • Electronics Systems

- Analog and digital circuits
- Microwaves circuits design
- Low Power electronics
- Embedded systems
- RF and wireless technology
- Signal and image processing and cryptography
- Fabrication concept

#### • Instrumentation

- Sensor technology and modelling
- Advanced in sensing materials
- Smart sensors and interfaces
- MEMS, MOEMS and RFID technology
- Optical fibre instrumentation
- Microwaves instrumentation
- Networks

All papers must be submitted through the journal's online submission system:

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