

## iCAST 2017 Special Session Proposal

Session Title:

### **Advanced Communication Technologies and their Applications to Intelligent Information Systems and Sensor Networks (ACTAIIS)**

Session Chair with Contact Information:

**Chaoyang University of Technology, Prof. Ching-Chuan Wei, ccwei@cyut.edu.tw**

Session Organizers:

**Prof. Mong-Fong Horng, Prof. Ching-Chuan Wei, Prof. Yung-Fa Huang**

#### **Aim:**

Advances in Communication Technologies and their applications to health care communications for intelligent information systems and sensor networks have generated interest from both industry and academia. This session (ACTAIIS) will bring researchers and experts together to present and discuss the latest developments and technical solutions concerning various aspects of advances in communication technologies. This session seeks original unpublished (both review/survey and technical) papers focusing on theoretical analysis, emerging applications, novel system architecture construction and design, experimental studies, and social impacts of communications technologies.

Topics of interest include but not limited to:

- Network architectures and protocols
- Mobility management and topology control
- Performance modeling and analysis
- Medium access control and routing protocols
- Information aggregation and dissemination
- Applications, case studies, and real-world test beds
- Power aware and energy efficient design
- Remote sensing and monitoring (health care, space structure, environments, hazards etc.)
- Complexity analysis, self-organization/configuration, distributed co-ordination etc.
- Application of software defined networking in advanced communication systems
- Cross-layer designs and architectures
- Self-organizing networks and autonomic communications
- Fuzzy logic for communications
- Biological-inspired networking
- Adaptive wireless communication systems
- Parameter estimation for adaptation of wireless communication systems
- Interference mitigation and awareness
- Spectrum-management regulation and policy making

- Femto-cells
  - Standardizations such as IEEE 802.22, 802.19, 802.11n, 802.11p, etc
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## **Submission**

Prospective authors are invited to submit their full-length papers electronically through the conference website. Each paper should follow the iCAST-2017 format. Paper Submission at: <http://icast2017.csie.cyut.edu.tw/> and for further information, please contact: [ccwei@cyut.edu.tw](mailto:ccwei@cyut.edu.tw).

### **Important Dates:**

The deadline for paper submission: July 15, 2017

The date for notification: August 15, 2017

The deadline for camera-ready paper submission: September 15, 2017

### **Session Organizers:**

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