

# **IEEE International Symposium on Industrial Electronics ISIE'17**

**19-21 June 2017, Edinburgh, Scotland**

**Special Session on**

## **“IoT Technology for Reliable User-Centric Sensing and Healthcare Applications”**

**organized by**

Principal Organizer: Alin Tisan (alin.tisan@anglia.ac.uk)

Affiliation: Anglia Ruskin University

Organizer 1 : Jeannette Chin (jeannette.chin@anglia.ac.uk)

Affiliation: Anglia Ruskin University

Organizer 2: G.P. Hancke (gp.hancke@cityu.edu.hk)

Affiliation: City University of Hong Kong

## **Call for Papers**

**Theme:**

This special session is dedicated to the use of IoT for user-centric sensing. The rapid development of IoT requires flexible multi-sensor acquisition interface equipment capable to cope with the rapid change of the type and number of sensors used in IoT applications. Managing (processing) the acquired data demands hardware (analogue and/or digital) and software platforms capable to host different data reduction and artificial intelligence algorithms. User-centric sensing can provide smart reconfigurable embedded systems to support healthcare services and promote a sustainable lifestyle. Sensing for healthcare, require high levels of reliability, similar to industrial communication.

Topics of interest include, but are not limited to:

- Ubiquitous healthcare embedded systems
- Reconfigurable smart sensor interfaces for IoT applications
- Sensor array data processing
- Data reduction / Machine Learning algorithms
- AI for Healthcare
- User-Centric Service Personalisation Techniques
- End-user programming techniques

- Affordable health monitoring systems
- Security of user data, including the privacy of contributors.
- Wearables and body-sensor networks for sensing

This session is sponsored by the Technical Committee on Cloud and Wireless Architectures for Industrial Applications

**Submission procedure, deadlines, and author instructions:**

A manuscript submitted to the Special Session of ISIE 2017 must be in the IEEE double format with single space 10p fonts and figures included in the text, so the length of the manuscript of 8 pages long in PDF format can be evaluated. For your convenience you may download the WORD [template.doc](#) from the conference website: <http://www.ISIE2017.org>

**Deadlines:**

- Reception of full paper: December 15<sup>th</sup> 2016
- Paper acceptance notification: March 1<sup>st</sup> 2017
- Camera ready paper reception: April 10<sup>th</sup> 2017