



Special Issue on  
**Approaches and Applications for Remote  
Automated Monitoring and Control via Internet and  
Cloud**

# CALL FOR PAPERS

Remote monitoring and control technology is now entering a new era due to significant progress in information and communication technology (ICT) and Internet of Things (IOT). For this trend, it is no longer limited to SCADA technology for the measurement of disparate devices from a network operations center. Currently, cloud database management is being used increasingly such as in Web services or others. From the view of engineering, what more can the Internet and cloud do for us in remote automated monitoring and control in industry? This is an essential issue that we need to explore further.

We invite authors to contribute original research articles as well as review articles that will stimulate the continuing efforts to improve the remote monitoring and control with automation mechanism via Internet and cloud. The development of strategies is to make a progress in automation discipline such as remote signal sensing, measurement, monitoring, control or management, and the evaluation of outcomes. We are particularly interested in articles describing the new model for remote automated signal measurement, tracking, and analysis; advances in collected data management; and new insights into on-line monitoring, control, diagnosis, and maintenance.

Potential topics include, but are not limited to:

- ▶ World Wide Web applications in signal sensing, measurement, and analysis
- ▶ A wireless sensor network (WSN) to monitor physical or environmental conditions, such as temperature, sound, pressure, and so on
- ▶ Development of platform for collected data processing and control from/to remote locations
- ▶ Solutions to achieve automatic and remote control from deterministic systems to technical tools in stochastic systems to technical diagnostics
- ▶ Machine tool/facility operation monitoring and early warning and diagnosis via Internet and cloud
- ▶ Applications of ICT or IOT in signal processing and automation fields
- ▶ Remote sensing signal detection, processing, and control combining with cloud database management

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jece/signal.processing/mcic/>.

**Lead Guest Editor**

Hsiung C. Lin, National Chin-Yi  
University of Technology, Taichung,  
Taiwan  
*hclin@ncut.edu.tw*

**Guest Editors**

Vincent Lee, Monash University,  
Melbourne, Australia  
*vincent.cs.lee@monash.edu*

Anthony Lo, Huawei Technologies,  
Stockholm, Sweden  
*anthonylo@ieee.org*

Xijin Tang, China Academy of Sciences,  
Beijing, China  
*xjtang@amss.ac.cn*

Kit Y. Chan, Curtin University, Bentley,  
Australia  
*kit.chan@curtin.edu.au*

**Manuscript Due**

Friday, 26 February 2016

**First Round of Reviews**

Friday, 20 May 2016

**Publication Date**

Friday, 15 July 2016