Special Session Call for Papers
International Symposium on Computer, Consumer and Control, 2014

Special Session organizer: Prof. Wen-Tsai Sung

Session name: *Mobile Real-Time Optimization.*

Introduction/ Call for papers

Today's mobile devices exhibit excellent performance and very soon some mobile device functions will gradually replace the personal computer. Mobile devices include smart phones, PDAs, tablet PCs and thin notebooks. Using smart phones or tablet PCs to perform real-time remote monitoring is very efficient. The operator is usually performing only real-time monitoring while other optimization analysis is still performed using computers. When we use computers to optimize the analysis it is usually no longer real-time analysis. Therefore, this special issue proposes smart devices for instant real-time data optimization. When we optimize data via mobile devices, we can monitor on-site interactive systems in real-time and perform remote optimization adjustments. This is a very efficient, innovative method for immediate adjustment action. In the past we focused only on remote environment monitoring, with less on how to control or change the status quo. This special issue employs mobile devices to optimize remote sensing data and adjust the device to meet the remote environment optimized state. Mobile device optimization presents very good

system interaction. For various types of sensor, front optimization of action will have different rendering techniques. For example, analog measurement sensors, the data returned can be done on the level of analysis and optimization. On the other hand, digital-type sensor, it is clear that we can get the polarized results. If this is obviously a high state and low state is used in the front-end analysis, it can create another result of the indication. Depending on the sensors measurement, we hope to come up with the corresponding analysis and optimization methods, the remote measurement results are better and do detail rendering of depth. Thus, various forms of sensors and distribution measurement situations for this special issue will be the most critical element. The main topics in this work include, but are not limited to:

Indicative Topics/Areas

The topics of interest include, but are not limited to

- Mobile monitoring

- Mobile measurements

- Multi-sensors detecting

- Wireless sensor network application

- Optimization sensor data analysis

- Interactive mobile monitoring or measurement

- Arduino or other microcontrollers and multi-sensors application

- Distributed deployment strategies and techniques for WSNs

- Integration of WSNs

- Novel applications of WSNs

- Network coding and applications for WSNs

- Others related

Prospective contributors are invited to submit their paper to Prof. Sung by email songchen@ncut.edu.tw.   All presented papers will be published in the Proceedings and the excellent papers will be recommended for publication in the special issue of SCI Journal.