

# *Sensors and Materials*

## **Call for Papers**

### **Special Issue on Innovation in Smart Sensing Control, Metrology, Optimization & Intelligent Automation**

Smart technologies in the research field of innovation in advanced system design, sensing control, modeling, and optimization have made great progress in recent years, and ‘intelligent automation systems’ has now become a popular term in the field of electrical/mechanic engineering and the development of industry. Many researchers of smart system design, metrology, and optimization have made considerable effort to develop innovative methodologies for engineering, physical, and biological studies, and so forth, and these research results have had a major influence in the wider field of system simulation and control.

With the advances of computer hardware providing more powerful computing environments, researchers of intelligent automation system modeling, numerical simulation, and optimization have been able to solve larger and more complex problems. Driven by such motivation, innovative methodologies of smart system design, control, metrology, and optimization technologies have been proposed not only in engineering but also in computer science as new paradigms. In addition, researchers of advanced system modeling, numerical simulation, and optimization have applied the developed innovative methods to various real-world problems such as intelligent robotic sensing systems. This special issue includes the mathematical and physical theories of nonlinear dynamics analysis and optimization in physical, engineering, biological studies, and their various applications. Prospective authors are invited to submit original papers to this Special Issue.

### **Indicative Topics/Areas**

The topics of interest include, but are not limited to

- Numerical simulation and nonlinear analysis for smart sensing systems
- Inventions/innovation in smart systems
- Inventions and innovation in smart design
- Innovation in smart sensors, metrology & intelligent automation systems
- Optimization schemes and control systems
- Materials for sensor technology
- Other sensing systems and applications

Prospective contributors are invited to submit their paper to Prof. Wang by email ([wcc@ncut.edu.tw](mailto:wcc@ncut.edu.tw)). Excellent papers presented at the 2019 International Conference on Smart Science will be recommended to be submitted to this Special Issue.

ICSS 2019: <http://www.sss.apsiii.org/conference/index.php/ICSS2019/icss2019>

### Schedule

Submission Deadline	August 31, 2019
Acceptance Notice	October 31, 2019
Final Manuscript	November 30, 2019
Publication Date	December 31, 2019

### Lead Guest Editor:

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