

Special Issue Title:**Applications of Novel Sensors and Related Technologies for Internet of Things****Guest Editors****Lifetime Distinguished Professor Dr. Teen-Hang Meen**

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Special Issue Information

Dear Colleagues,

In recent years, applications of novel sensing and related technologies to electronic and mechanical devices have become rapidly developing fields. The booming economic development in Asia, particularly the leading manufacturing industries from automobile, machinery, computer, communication, consumer product, and flat-panel displays to semiconductor and micro/nano areas have attracted intense attention from universities, research institutions and many industrial corporations. Manufacturing is the economic lifeline of a country and has been regarded as a labor-

intensive industry. In order to cut production costs, devices for the Internet of Things have been widely developed. The Internet of Things is composed of most integrated end devices and facilities, such as intelligent sensors for internal control, industrial systems, mobile terminal systems, floor control systems, and home intelligent facilities. Smart devices and external control information are utilized with the hope of attracting companies that manufacture high-value-added products in the aerospace, automotive, IT molds, textiles, optoelectronics, watches, medical devices, automation, energy, and semiconductor-related parts and components fields to drive the country's economy. Therefore, the key to maintaining a competitive advantage in domestic manufacturing in the future is to continue to rely on the development of novel manufacturing and precision machinery-related technologies. The scope of this Special Issue entitled "Applications of Novel Sensors and Related Technologies for Internet of Things" covers fundamental sensors and materials used in electronic, mechanical, and electrical engineering including their synthesis and integration with many elements, the design of electronic and optical devices, sensing technologies, evaluation of various performance characteristics, and exploration of their broad applications in areas such as industry, environmental control, and materials analyses. We invite investigators to contribute original research articles, as well as review articles, that will stimulate the continuing efforts to develop electronic and mechanical devices and optical sensors. Potential topics include, but are not limited to the following.

- Electronic devices and mechanical sensors for Internet of Things applications
- Sensing technologies for Internet of Things applications
- Novel sensor-related materials with new electronic and mechanical properties for Internet of Things
- Novel sensor-related materials for preparation and applications for Internet of Things
- Sensor-related subjects related to electronic thin films and coating technologies for Internet of Things
- Synthesis engineering of novel sensor-related materials
- Novel sensor-related materials for mechatronics in Internet of Things applications
- Novel sensors for Internet of Things applications
- Medical and health applications of sensors
- Remote sensing in Internet of Things applications
- Sensors on robotics

Schedule

Deadline for Manuscripts: December 31, 2024

First Round of Reviews: January 31, 2025

Second Round of Reviews: March 31, 2025

Acceptance of Final Papers: April 30, 2025

Publication: May 31, 2025

(Attention)

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If you have any questions, please feel free to contact the editorial staff at the address below.

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