Special Issue

Advanced Sensors Technologies for Soft Robotic System

Message from the Guest Editor

Soft robotic systems, combining the flexibility and adaptability of soft materials with the versatility of robots, are revolutionizing various fields, including biomedical engineering, manufacturing, and exploration. In recent years, significant advancements in sensor technologies have propelled the development and application of soft robotic systems, offering enhanced capabilities in sensing, interaction, and adaptability. This Special Issue focuses on the latest innovations, applications, and challenges in advanced sensors technologies for soft robotic systems. The integration of cutting-edge sensors with soft robots offers the realization of precise control, environmental interaction, and intelligent decision-making in dynamic and unstructured environments. We welcome the submission of manuscripts that address a range of topics including, but not limited to, the following:

- Soft sensors and actuators;
- Tactile and haptic sensing;
- Flexible and stretchable electronics;
- Bio-inspired sensor systems;
- Environmental sensing;
- Sensor integration and fusion;
- Real-time data processing and feedback;
- Applications in biomedical engineering, industry, and beyond.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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