

Sensors and Materials

Special Issue on Sensing in Medical Robots

Call for Papers

Medical robots are presently actively studied worldwide, only a few decades after their introduction. Sensors are key components in robots and can improve robot performance. For example, force sensing and display with surgical robots can improve the safety of surgery. Sensing of biological information could improve the compatibility of such robots with patients and clinicians. Thus, sensing technology can foster the development of new medical robotic systems. This special issue will focus on the state-of-the-art of sensing technology including force, position, and vision sensors; sensing of biological signals; applications of sensors; and sensor fusion in medical robots in various fields including those of surgery, rehabilitation, and training.

Scope:

- Force sensing, estimation and display
- Position sensors
- Vision sensors
- Sensing of biological signals
- Application of sensors in robots
- Sensor fusion

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