Technologies for Smart Sensors and Sensor Fusion (Devices, Circuits, and Systems)

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Exciting new developments are enabling sensors to go beyond the realm of simple sensing of movement or capture of images to deliver information such as location in a built environment, the sense of touch, and the presence of chemicals. These sensors unlock the potential for smarter systems, allowing machines to interact with the world around them in more intelligent and sophisticated ways.

Featuring contributions from authors working at the leading edge of sensor technology, **Technologies for Smart Sensors and Sensor Fusion** showcases the latest advancements in sensors with biotechnology, medical science, chemical detection, environmental monitoring, automotive, and industrial applications. This valuable reference describes the increasingly varied number of sensors that can be integrated into arrays, and examines the growing availability and computational power of communication devices that support the algorithms needed to reduce the raw sensor data from multiple sensors and convert it into the information needed by the sensor array to enable rapid transmission of the results to the required point.

Using both SI and US units, the text:

- Provides a fundamental and analytical understanding of the underlying technology for smart sensors
- Discusses groundbreaking software and sensor systems as well as key issues surrounding sensor fusion
- Exemplifies the richness and diversity of development work in the world of smart sensors and sensor fusion

Offering fresh insight into the sensors of the future, **Technologies for Smart Sensors and Sensor Fusion** not only exposes readers to trends but also inspires innovation in smart sensor and sensor system development.

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