

2018 Instrumentation & Sensors Research Review

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Abstracts

REPORT SCOPE

Instrumentation and sensor devices are the backbone of technology industry. Internet of things (IoT), industrial internet of things, smart cities and smart buildings are current technological buzzwords. These technologies have one thing in common, they are dependent on instruments and sensors. The fusion of different instrumentation and sensor devices is necessary to attain desired outcomes, making this industry a major area for future development of various aspects of daily life.

The use of sensors has expanded beyond the traditional fields of temperature, pressure and flow measurement. The technological advances and the use of micromachining and microelectromechanical systems (MEMS) technologies in microsensors are allowing manufacturers to use more sensors and in turn increasing number of sensors on a microscopic scale. In most cases, microsensors can reach significantly higher speeds and sensitivity compared with macroscopic sensors.

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