

Special Issue

Sensor Networks for the Resilient Industrial Internet of Things

Message from the Guest Editors

With the evolution of Industry 4.0 toward the resilient and human centric view of Industry 5.0, the importance of industrial sensor networks increased even more. Significant savings and redundant parallel information paths can be achieved by means of continuously connected devices and machines. However, the Industrial Internet of Things, where sensors and instruments are placed on a wide area or mobile systems, remains hugely challenging. In such cases, wireless or other innovative technology is often mandatory, because of intrinsic incompatibilities (the mobile device cannot use wires) or high cost of wired infrastructure to cover large (geographical) areas. In recent years, the 5G revolution and the advent of specialized wireless protocols for low-power wide area networks have boosted Internet-connected devices' diffusion also in industry. The combination of new technologies has a very positive impact on sensor networks for "production" and "monitoring of product" in the era of the Industrial Internet of Things.

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