Wireless Sensor in Networked Control System

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Message from the Guest Editors

Everyday, wireless sensors are becoming more obiquitous due to their reduced installation and manitanence costs as compared to their wired counterpars, and the possibility to install them on moving parts that do not allow wiring. The Internet-of-Things provides these sensors with cloud connectivity and are being used succesuly in industrial and civil applications for infrastructure monitoring and predictive maitanence.More challenging is their use in control and automation applications, commonly referred as Networked Control Systems, where low latency and reliable data transmission and reception is needed. This Special Issue intends to present the most recent advances in this context from different angles such as novel control algortihms that are robust against unreliable communication, multiple sensors and actuators smart scheduling, wireless protocols for control (WirelessHART, ISA100, MIMO WI-FI, 5G), virtual sensors, and distributed estimation and control, both from a theoretical and a practical/industrial perspective.

Special Issue

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Message from the Editor-in-Chief

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