



Wireless Sensor-Actuator Networks

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Message from the Guest Editors

Dear Colleagues,

Recently, with the rapid development of wireless communication and embedded computing technologies, a lot of research activities have been dedicated to the fields of cyber physical systems (CPS). In CPS, sensors are involved in monitoring the physical environment, while actuators execute specific actions in response to the data provided by the networks. It is important to design novel resource self-management mechanisms, to avoid out-of-order and out-of-time execution of queries and commands due to the lack of proper resource allocation and scheduling between sensors and actuators. The topics of interest for this Special Issue include but are not limited to:

CPS applications;

Communication protocols, routing protocols, and scheduling algorithms;

Estimation and control mechanisms designed for sensors and actuators;

Safety, reliability, fault tolerance;

Real-time computation and communication;

Low-power design, energy management;

Architectures and methods for embedded system design and hardware and software co-design.

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