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Sensor and Actuator Network

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The ingenuity and vision of connecting everyday physical objects through the Internet gave rise to the paradigm of the Internet of Things (IoT), which through the integration of sensors and actuators has fostered the emergence of Wireless Sensor and Actuator Networks (WSANs). In the last few years, WSANs have been successfully applied in the materialisation of concepts as broad as cyber-physical systems and smart cities. Despite current achievements and advancements, WSANs still face several key challenges, including resilience to cyber-attacks, deployment and positioning of nodes, real-time requirements, coordination and mobility, just to name out a few.

This Special Issue is devoted to gathering the latest advances in basic research and applications involving WSANs, with emphasis on:

- Architectures, protocols, middleware and services;
- Deployment and nodes position;
- Coordination and mobility;
- Reliability, quality of service and sustainability;
- Resilience and privacy;
- Real scenarios applications.