Special Issue

Frontiers in Nano Communications

Message from the Guest Editors

In recent years, the research community has made enormous progress in conceptualizing the fundamental communication mechanism of nanonetworks. Among those are electromagnetic communication, acoustic communication, and molecular communication. Electromagnetic communication is limited to the Terahertz band, as antennas are small. This type of communication works for already existing wireless sensor networks. However, it is unclear if there is enough available energy at the nanoscale. Thus, molecular communication has been proposed as an alternative form of communication. One of the most promising materials for the construction of nanodevices and nanonetworks is graphene. Another frequently suggested building material is DNA. Over the years, researchers suggested many potential applications in medicine, synthetic biology, or material sciences. This Special Issue intends to provide an overview of the current state of the art of tiny sensor and actuator networks. The main areas of interest are papers on nanocommunication paradigms, network architectures, communication protocols, simulation tools, wet-lab experiments, and other applications.

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About the Journal

Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

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