



International Journal of Distributed Sensor Networks

Special Issue on

Low Energy Short Range Wireless Communications

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Recently, various wireless access technologies have been introduced to fulfill the Internet and data requirement of mobile users. Much effort has been made in this regard, but no such technology has been introduced to take care of short range communication services. Bluetooth, UWB (Ultra Wide Band), and Zigbee (IEEE 802.15.4) are technologies which can be used to handle communications in wireless communications, but the traditional Bluetooth versions 2.0 and 3.0 are developed for high data rate communications. Hence, they cannot be used for such low-power and low data rate systems. The current wireless technologies which are using low energy short range communications include communication within home devices, health and fitness services, airport and train stations, and medical services within hospitals.

Building the future mobile communications systems will meet low energy and short range challenges. This is well acknowledged, but still there is insufficient action to involve the stakeholders needed for transparent and robust decision making by the end users of research in governments and government agencies. One recommendation in a synthesis of experts' studies done for this journal says that the link between scientists/engineers and policymakers needs to become stronger.

This special issue will help bridge the gap between present day conditions and full recognition of the necessity to bring in researches for low transmission power and short transmission range. We have the ambition that this journal will be a point of departure for future initiatives in this direction including the establishment of various platforms for a sustainable low energy short range system.

The purpose of this special issue is to publish high-quality research papers as well as review articles addressing recent advances on low energy short range communications. Original, high quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought.

Potential topics include, but are not limited to:

- ▶ Low energy short range wireless communication architectures and systems
- ▶ Bluetooth low energy for short range wireless communications
- ▶ Energy harvesting dedicated to human activities
- ▶ Interaction of the sensor node with the sensor itself
- ▶ Mobile network architectures and services
- ▶ Performance analysis, modeling, optimization, monitoring, and control
- ▶ Standardization and regulations for low energy short range wireless communications and networking
- ▶ Smart energy-efficiency, QoS, fault-tolerance, and robustness for short range communications
- ▶ Internet of things and BAN (Body Area Network) for low energy short range wireless communications
- ▶ Novel services and applications for low energy short range wireless communications
- ▶ Personal and body networks, wearable computing for low energy short range wireless communications
- ▶ Service discovery and connection setup architectures
- ▶ Self-organizing networks for low energy short range communications

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