Special Issue

Body Area Sensor Networks

Message from the Guest Editor

This Special Issue will focus on in-body/on-body sensing networks, wireless communication technologies for data and energy transmission, and sensor informatic methods that can transform these devices into autonomous, intelligent medical implants connected to the Internet to provide improved diagnosis, remote monitoring, and targeted therapy delivery. The topics of interest include, but are not limited to:

- Sensing device design operating in or over the body;
- Actuators and stimulators;
- In-body and on-body antenna systems;
- EM characterization of human body tissues and wave propagation;
- Ultra-low-power transceivers;
- Wireless body area networks;
- Energy solutions for implants and on-body sensor devices: energy harvesting and wireless power transfer;
- Sensor informatics—ultra-low-complexity methods for implants and machine learning and artificial intelligence for on/off-body devices for anomaly detection, event prediction, and the localization and tracking of in-body devices;
- Data security and privacy;
- Hardware and software implementations for medical sensors;
- Experimental platforms for testing and verification;
- Advanced sensing methods.

Guest Editor

Dr. Sangsoon Lim
Department of Computer Engineering, Sungkyul University, Manan-gu, Anyang-si 14097, Korea

Deadline for manuscript submissions

closed (6 June 2023)

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Journal of Sensor and Actuator Networks
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jsan@mdpi.com

mdpi.com/journal/jsan

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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.

Editor-in-Chief

Prof. Dr. Lei Shu
1. College of Artificial Intelligence, Nanjing Agricultural University, Nanjing 210031, China
2. School of Engineering, College of Science, University of Lincoln, Lincoln LN6 7TS, UK

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