Special Issue

Secure Wearable Body Sensor Design for Massive Machine Type Communications

Message from the Guest Editors

In recent years, the amount and magnitude of IoT and wearable device applications have expanded significantly, leading to the growing demand for a flexible body channel communication (BCC) system that can support both low-power operation and scalable data rates. Human body communication (HBC), which uses human body tissue as a transmission medium to transmit health informatics, serves as a promising physical layer solution for the body area network (BAN). The human-centric nature of HBC offers an innovative method to transfer healthcare data. This Special Issue is aimed at addressing issues that are involved in the analysis, design, and implementation of the HBC system and proposes efficient techniques that can reduce power consumption and increase the data rate in shortrange communication systems. Topics of interest include the following:

Body-channel communication (BCC);

Capacitive coupling;

Digital transmission:

Electric field communication:

Human-body communication (HBC);

Intra-body communication (IBC);

IoT;

Low power consumption;

Short range communication;

Transmission path loss;

Wearable computing;

Wireless body area network (WBAN).

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Deadline for manuscript submissions



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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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