Special Issue

Near-Field Communication (NFC) Sensors

Message from the Guest Editors

NFC is an emerging wireless communication technology that is mainly used for RFID. NFC enables simple and safe two-way interactions between electronic devices. Most current smartphones also incorporate an NFC reader, and NFC systems are therefore gaining importance in the IoT scenario. Besides, NFC can put IoT devices under a user's control and is easy-to-use with its "tap-and-go" function. The most important NFC IC manufacturers are introducing advanced IC with energy harvesting capabilities. The chips collect part of the energy received by the magnetic field generated at the reader to provide an analog voltage output that can be used to power external electronics. The inductive link is widely used in implantable biomedical sensor systems to achieve NFC and WPT. NFC-based technology creates noninvasive opportunities for the development of smart sensors. In particular, green NFC sensors based on energy harvesting can help with the design of a new generation of low-cost smart wearables, advanced medical implants, and the simplification of the CHI, which opens the door to cooperative IoT for smart cities and Industry 4.0.

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