

Special Issue

RFID and Applications of RF/Microwave Circuits and Systems

Message from the Guest Editor

Radiofrequency identification (RFID) and wireless identification systems represent transformative technologies with broad and growing applications across various industries. These systems are pivotal in enabling smart connectivity for objects, environments, and even individuals. Their applications range from the tracking, sensing, and monitoring of tagged items and human bodies to advancements in sectors such as healthcare, logistics, security, and smart environments. In particular, RFID systems rely heavily on the design of radiofrequency (RF) circuits and components in order to operate successfully. RF, which spans from 300 MHz to 300 GHz, includes microwave and millimeter-wave frequencies. RF circuits play a key role in the efficient functioning of RFID systems and are foundational for applications like wireless sensors, smart healthcare solutions, and localization systems. This Special Issue aims to explore the interdisciplinary design and engineering challenges facing RFID systems, with a particular focus on how RF and microwave circuits and devices are integrated into real-world applications.

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Designs (ISSN 2411-9660) is a peer-reviewed and open access journal which provides a unifying research framework for a wide range of engineering designs of disciplines and industrial applications, including mechanical engineering, electrical engineering, civil engineering, mechatronics, aerospace engineering, bioengineering, energy engineering, industrial engineering and manufacturing systems are of interest. We would like to invite you to contribute to the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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