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Emerging Technologies in Wireless Power Transfer Systems

Guest Editors:

submissions:

Message from the Guest Editors

Dr. Albert Ting Leung Lee With the rapid proliferation of Internet-of-Things (IoT) and machine-to-machine (M2M) communications, a greater Prof. S.Y. (Ron) Hui number of sensor nodes are required in order to collect the required information (e.g., light, ambient temperature, Dr. M.H. Bryan Pong image, power consumption, pressure, and gas) and then Dr. Gus Cheng Zhang send them to a master node for IoT services, such as a smart home or smart city. These sensor nodes are often powered from external batteries. Hence, it becomes a major challenge to manage the batteries of each sensing Deadline for manuscript device as the number of these devices increases. closed (15 July 2022) Furthermore, the operating lifetime of the sensor devices is short because of the limited battery capacity. In view of this, radio-frequency (RF) wireless power transmission and harvesting emerges as a key technique for powering IoT sensor nodes because of its long distance power transmission (also known as over-the-air wireless charging). Nevertheless, there are a number of outstanding issues that need to be addressed, such as EMF safety, cross-interferences among wireless channels. low sensitivity, and low RF to DC power conversion efficiency.









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Message from the Editor-in-Chief

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