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Sensor and Actuator Networks

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Sensor Systems for the Batteryless Internet of Things

Guest Editor:

Dr. Michael Crisp
University of Cambridge, Cambridge, UK

Deadline for manuscript submissions:
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Message from the Guest Editor

The predicted, massive proliferation of Internet of things sensors will require many wireless sensor nodes to operate with no, or very small amounts of, harvested power for both sensor data acquisition and the communication of sensor data. While there are many sensor architectures that require relatively small amounts of energy, duty cycling can be used to drive the power consumption lower, particularly for conventional radio communications, which often require significantly more power than sensor operation. However, recently, there has been widespread interest in backscatter communication systems, which reduce the power required for radio communication by several orders of magnitude. Such improvements will result in a paradigm shift in the operation of wireless sensor nodes, with the energy consumption of the sensors and data converters becoming significant and the overhead of communication being vastly reduced so that the approach of bursty, compressed or averaged data will no longer be effective.

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Message from the Editor-in-Chief

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