

Power Management and Energy Harvesting Techniques for Body Area Networks

CALL FOR PAPERS

Body area networks (BANs) can capture precise and quantitative information from a group of biomedical sensors for a long period of time. The outcome will be improved decision making for diagnostics, observation and patient treatment. However, energy is a scarce resource in BANs and its wise management is essential for the network lifetime and mission success. To address this issue, energy harvesting techniques could be used in BANs to provide an infinite source of energy and prolong real-time monitoring. However, effective management of remaining power and harvested energy to optimize data sampling, processing and communication is necessary.

This special session aims at bringing together scholars and practitioners to discuss and present their latest findings on all the aspects of power management and energy harvesting in BANs.

Topics of interest include but are not limited to:

- Energy-efficient Communication protocols for BANs
- Information fusion in BANs
- Smart and energy-aware BAN and IoT
- Novel Applications of sustainable BAN
- Cloud-assisted BANs
- Security and Privacy in BANs
- Energy transfer/charging in BANs
- Energy-aware sampling techniques
- Scheduling techniques
- Wearable devices in BANs
- QoS and QoE in BANs
- Performance evaluation and network modelling

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