Call for Papers

Special Session: Energy-efficient Techniques for WLAN, WSN, and WPAN

Outline:

Energy insufficiency in wireless communication devices is mainly due to wireless interface, which spend most of its time in the process of idle listening. Before any transmission, to decide whether the channel is idle or busy, idle listening is necessary to perform channel sensing. In contention-based channel access protocol, idle listening is unavoidable and is the primary source of energy consumption in WLAN.

In terms of energy saving in WSNs, asynchronous MAC protocols would be the prominent protocols since they allow nodes to sleep most of the time. When it tends to have data occasionally, it is likely to spend some energy since the sender needs to continuously deliver preambles until its receiver finally wakes up. To shorten the duration of preambles, several approaches have been taken.

Topics:

Topics include but are not limited to:

- Reducing idle listening in WLAN
- Techniques for Accurate Performance Evaluation for WLAN
- Development of MAC protocols with energy efficient in single-hop WSNs
- Development of MAC protocols with low latency and energy efficient in multi-hop WSNs
- Techniques for Accurate Performance Evaluation for WSN
- Development of High-Efficient Low-power WPAN MAC Protocol
- Techniques for Accurate Performance Evaluation for WPAN
- Multi-criteria decision making in WSN

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