Low-Cost Highly Accurate Energy Profiling of IEEE 802.11n Communication Driver

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Abstract:
Energy efficiency aims to reduce the amount of consumed energy required to provide services and functionalities, by utilizing commonly accepted methods to reduce the losses of energy or by adopting a more efficient technology or production process. In case of a wireless network, the devices operating on battery try to follow this idea by reducing the energy they consume without affecting the performance required for a certain task. In order to achieve this goal and further improve the efficiency of already low-power wireless cards a highly accurate energy profiling method is needed. In this paper we propose the methodology for profiling 802.11n standard wireless communication card, from the energy and performance perspectives at high sampling (10k) rates and accuracy (1e-5).

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