عنوان مقاله:

The pattern of Resource Consumption Based on Network Traffic Overhead

نویسنده:

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خلاصه مقاله:

The wireless devices are typically handheld battery-operated and have limited resources including memory, computation time, power source, and bandwidth. Therefore, running services that consume large quantities of resources over these devices can result in significant inefficiency during service reception. Therefore, it is important to identify the network services based on their level of resource consumption. Among the factors affecting resource consumption, is the traffic overhead. In this work, we develop a simulation model to identify the resource consumption patterns when different types of video traffic with different overheads are exchanged across the 802.11ax wireless networks. The model is implemented and the results based on bandwidth achievement and the rate of lost frames are measured. The results determine the type of traffic that consume less quantities of network resources and is more efficient for battery-operated devices with constraints resources. This enables us to have control over the usage of network resources.

کلمات کلیدی:

Resource consumption, Traffic overhead, Consumption pattern

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