

Abstract

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A Metric for Evaluating Density Level of Wireless Sensor Networks

The term “Dense networks” is usually used to identify networks having large number of nodes within a small area while affecting network performance. Starting from this concept, different networking solutions were proposed. However, it seems to us that this view is very abstract and needs to be further investigated. Knowing the network density level can be of great importance in determining the network parameters. In this paper, we firstly examine the effect of network size over its performance, then introduce a metric to determine if a network is considered as a “dense network” not. Finally, we applied our metric on experimental results published in the CRAWDAD dataset site to verify our metric.