

## عنوان مقاله:

Radio Range Adjustment For Energy Efficient Wireless Sensor Networks

## محل انتشار:

چهاردهمین کنفرانس مهندسی برق ایران (سال: 1385)

تعداد صفحات اصل مقاله: 5

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## خلاصه مقاله:

In wireless sensor networks (WSNs), energy use is the most important constraint since it determines the lifetime of the network. Of approaches to achieve the energy conserving is to employ collaborative strategies on packet transmission and relaying data. However, the impact of traffic load on the lifetime of sensor networks is not considered in most of previous research works. This paper proposes an energy efficient topology management scheme to evenly distribute traffic load among different wireless nodes. This new topology avoids relaying large percentage of load by those wireless nodes, which are close to final sink nodes. Therefore, this feature prevents to short the lifetime of the network. Simulation results show that the proposed topology can significantly improve the .lifetime of WSNs

## کلمات کلیدی:

Wireless sensor networks (WSNs), energy efficiency, radio range adjustment, topology management, network lifetime

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/54781>

