

عنوان مقاله:

Power-Award Services in Wireless Mobile Ad Hoc Networks

محل انتشار:

دومین همایش ملی پژوهش های کاربردی در ریاضی و فیزیک (سال: 1393)

تعداد صفحات اصل مقاله: 5

نویسنده:

Yashar Nalbandeh Negarestani - *Young Researchers and Elite Club, Tabriz Branch, Islamic Azad University, Tabriz, Iran*

خلاصه مقاله:

In Wireless Mobile Ad Hoc Networks (MANETs) power consumption is an important issue since most mobile hosts operate on battery. In this paper we model our networks as a weighted graph and our servers as a weighted dominating set. So nodes in weighted dominating set consume more energy to handle various bypass traffic than nodes outside the set. The problem is finding a minimum weighted dominating set in our networks. Then we model this problem as an Integer Linear programming (ILP) problem and provide an $O(\log n)$ -approximation algorithm based on randomized rounding of LP-relaxation optimal solution.

کلمات کلیدی:

Wireless MANETs, Weighed dominating sets, integer programming, LPrelaxation, randomized rounding

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