

عنوان مقاله:

Network Survivability Performance Evaluation in Wireless Sensor Networks

محل انتشار:

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خلاصه مقاله:

Wireless Sensor Networks (WSN) have potential to gathering information and send them to a base station. These networks are unattended and have the ability to work in military and civil applications. Wireless sensor nodes are combining the wireless communication infrastructure with the sensing technology. Instead of transmitting the perceived data to the control center through wired links, ad hoc communication methods are utilized, and the data packets are transmitted using multi-hop connections. The survivability performance of WSN networks is an important issue. Network survivability is defined as the ability of a network to maintain or restore an acceptable level of performance in the event of deterministic or random failures. We perceive that packet loss, packet delay and network lifetime are integral components of WSN survivability. Therefore, we propose a composite model for survivability performance evaluation of WSN that consists of these parameters. Simulation results are used to validate the proposed model. The simulation results agree very well with the model.

کلمات کلیدی:

Wireless sensor network, Survivability, Network lifetime, Total Loss

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