عنوان مقاله:
A Fuzzy Routing Algorithm for Low Earth Satellite Networks

محل انتشار:
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خلاصه مقاله:
Low Earth Orbit (LEO) satellite networks have dynamic, yet deterministic topologies. Because of dynamic characteristics would result in the re-routing all connections that are passing through a turned off link. But on the other hand, because of deterministic characteristics, we have some useful information about future of network. In this paper we attempt to develop an algorithm to reduce the number of re-routings by assigning routes that are more permanent. This is done by using a fuzzy system that before routing assigns weights to all links based on their handover time and residual bandwidth. Performance of algorithm is investigated using simulation experiments.

کلمات کلیدی:
Satellite networks, LEO, routing, fuzzy, handover