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CHARACTERISTICS EXTRACTION OF THE LEO-SATELLITE-NETWORK ROUTING
ALGORITHMS

Abstract

The routing algorithms of LEO satellite network put focus in different respects, and there are few uniform and quantitative approaches for analyzing and evaluating the routing algorithms in this area. In order to provide quantitative evaluation so as to choose an appropriate routing algorithm which can be applied in certain scenarios of satellite network, some critical characteristics of the routing algorithms are extracted based on the characteristics of LEO satellite network, and the characteristics of common used routing algorithms are analyzed by comparing results from simulation tests. This research will improve the research and application of routing algorithms of LEO satellite network.

Key words: routing algorithms, LEO satellite network, quantitative evaluation, simulation tests