

Poster Session (P)

Poster Lunch (1)

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THE STUDY OF ALGORITHM BASED ON SPACE ROUTER

Abstract

With the development of satellite communication, space routing would improve the utilization of satellite resource in a big degree, shorten communication delay, and enlarge coverage of satellite communication. Algorithm is key to space routing, therefore how to design a reasonable and effective algorithm become the focus of domestic and overseas aerospace field. Based on the cutting-edge achievement and practical progress of space routing, this paper classifies space service, and shows a corresponding algorithm according to the characteristic of single orbit satellite group. The paper shows every kind of algorithm in detail by the way of pseudocode, and builds mathematic model for complex communicate. Considering practical process of space routing, the author researches static route of signal orbit constellation, which serves as research base of multi-orbit and dynamic route in the future.