

## عنوان مقاله:

Received power optimization for high throughput satellite networks

## محل انتشار:

دومین کنفرانس ملی رویکردهای نوین در مهندسی کامپیوتر و برق (سال: 1395)

تعداد صفحات اصل مقاله: 4

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## خلاصه مقاله:

Resource management problem for satellite systems which have many ground stations is very important, where variations of input or output parameters are added to those of optimization problem. The new access method is an important factor of satellite networks, which leads a complexity and to the space communication. Nowadays, with new access technologies such as non orthogonal frequency in satellite systems are the novel method of high throughput satellite communications. This paper mainly analysis and simulation the capacity of the satellite systems, also by taking the limits of bandwidth sharing. Since the power problem reveals to be an optimization problem which is typically Lagrange function. We propose an approach based on the minimization over bandwidth for each ground stations based on an estimation of the gradient. Finally, comparison shows that the proposed algorithm maintain the optimal capacity problem.

## کلمات کلیدی:

satellite system, power allocation, bandwidth sharing, frequency reuse, multi-spot beam

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/522645>

