

## عنوان مقاله:

Resource Management for 5G-satellite Communication Systems based on Queuing Theory

## محل انتشار:

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## خلاصه مقاله:

Nowadays, with the advent of new satellite services, the need for resource management in the emerging fifth generation satellite systems (5G-satellite) is inevitable. Thus, to solve this problem, the Bandwidth Manager for resource reservation in satellite link is mandatory. On the other hand, due to limited resources, their resource management is essential. In order to resource management in 5G-satellite systems, can be applied in one phase or many phases, In this paper, resource management for 5G-satellite services is evaluated. The proposed optimization problem is maximize mean response time under the propagation delay constraints in satellite links. We solve the considered optimization problem via the single phase and two phase algorithms. Finally, through simulation, the proposed algorithms are investigated and confirmed. In our scenarios, satellite is a Central node in call flows and ground stations are End nodes in 5G-satellite based on Internet protocol. So we simulated all of scenarios in matlab software for this reason.

## کلمات کلیدی:

5G-satellite, Signaling Protocol; Bandwidth Manager; M/M/1; single phase; two phase

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/488485>

