

## عنوان مقاله:

Resource Allocation in a Hybrid CDN-P2P Video Streaming

## محل انتشار:

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## خلاصه مقاله:

These days one of the most important reasons of increasing the Internet users is video-over-IP, so the traffic on the Internet is increasing and will be a major problem. Content Delivery Network (CDN) and Peer-to-Peer (P2P) are two famous techniques for the efficient distribution of video streams. CDN and P2P systems have their own limitations and advantages that by combining these two methods (CDN and P2P), their disadvantages have been solved. So a hybrid CDN-P2P network is an efficient and cost-effective solution for large-scale video streaming over the Internet. In this thesis the main goal is to design an efficient resource allocation algorithm in a hybrid CDN-P2P connected mesh live video streaming network. Average delay and average perceived video quality in the group are the main performance metrics that will be considered in design and evaluation of a resource allocation algorithm subject to the resource constraints of the CDN nodes and also the Internet peers.

## کلمات کلیدی:

Content Delivery Network (CDN), Peer-to-Peer (P2P), Resource Allocation

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