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Peer-to-Peer Network(P2P Network)
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Abstract
Recently, peer-to-peer (P2P) networks bring the advantages of
aggregated bandwidth, storage to save the cost of service provider.
Today, P2P networks have urged more and more service providers to
provide live streaming service on P2P-based infrastructure. Although
providing live streaming service on P2P networks can save the cost of
service providers, it causes several new related issues. In this
thesis, we focus on the provision of
live streaming service on P2P networks and propose two description balancing policies,
respectively balancing scheme and fine-grained balancing scheme.
These description balancing policies use
multiple description coding (MDC) to encode streaming content to
several descriptions and help users according to their requests or
download bandwidth to download the number of descriptions,that can satisfy the "asymmetric access link", "heterogeneity" and "dynamics" issues.
These policies are intended to improve the scalability of the server. They
balances the available bandwidth of each description and peer
loading when the server allocates the descriptions and source peers
to a new peer. The simulation results show that our description balancing policies successfully saves server bandwidth and serves more users.
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