Research Article

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Enhancing Video Streaming in Wireless Networks with Cross Layer Design Approach

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ABSTRACT

Wireless networks are growing in capabilities due to technological innovations and unprecedented growth of telecommunications. This is the reason, of late, video streaming applications exploit the power of mobile applications to render their services. However, mobile networks are known to various issues like channel fading, interference, and delay and so on. When multimedia content is being rendered through wireless network, the users of media expect high quality. Since video content is sensitive to delay, it is important to ensure the quality of service (QoS) in providing multimedia content through wireless networks. The existing solutions focused on different layers of OSI for solving problems. In this paper, we proposed a cross layer design that for joint optimization of network for ensuring high quality video streaming over wireless networks. We proposed a framework and implemented it. Our NS2 simulations provide proof of the concept.

Keywords: Wireless network, cross layer design, video streaming

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