

Abstract

Wireless communication is a technological advance that enables device mobility and their interconnectivity, any time and anywhere. The union of this technology with multimedia transmission techniques can bring birth to new applications, like those applied to hospital environments. In these environments, for example, the need for the transfer of real-time images is very common. However, some typical wireless network problems need to be overcome to provide quality of service in multimedia transmissions.

This project presents some solutions to overcome the above referred problems of transmitting continuous media streams over an infrastructured wireless network. The developed solution aims at dealing with the inherent instabilities of the wireless environment, automatically and without the users help. For this purpose, some adaptation policies were proposed in the attempt to reduce the harmful effects of the sudden handoffs and the interferences in the communication.

Keywords:

- (1) Infrastructured networks;
- (2) Multimedia transmission;
- (3) Quality of service;
- (4) Mobile computing.