Abstract

The advances in wireless networks technology are enabling new organizational models and the implementation of new applications. Educational and commercial institutions are increasingly more interested in acquire this technology, to offer services of wireless broadband access to theirs students, staff or clients. In this context, emerge the Mesh networks, that have as their main purpose to provide broadband communitarian access over a wireless backbone.

The union of these new networks with multimedia transmission presents new challenges to be overcome, like, for example, the provision of Quality of Service (QoS) for real-time continuous flows. However, to have QoS support in wireless networks is not a trivial task. The intrinsic problems of these networks, like the interference in the communication created by noise, packet collisions or connectivity loss, possibly generated due to node mobility, must be considered in the QoS requirements specification.

In this sense, this work main objective is the proposal and implementation of a framework for QoS support in Mesh networks, and its evaluation in a real environment.

Keywords:
(1) Mesh Networks;
(2) Quality of Service;
(3) Multimedia Transmission;
(4) Adaptive Systems.