Abstract

Third Generation Partnership Project (3GPP) Long Term Evolution (LTE) system is targeted to efficiently guarantee the quality of service (QoS) of services such as audio/video streaming, gaming and Voice over IP (VoIP). So the system resource allocation should obtain the multi-user diversity gain making full use of the channel condition, and take the quality of service (QoS) of different services into account. Due to the heavy user's space and limited Resource Block (RBs), it is infeasible to guarantee all ongoing users' QoS. Then, some call are blocked and lost. The proposed method reduces the handoff blocking probability in LTE wireless networks. Hybrid Adaptive call admission control scheme performs the QoS operation based on the priority at the time of call admission. This method reduces new call blocking probability.

References

1] Khitem Ben Ali, Faouzi Zarai, Lotfi Kamoun (2010), &quot;Reducing handoff dropping probability in 3GPP LTE Network&quot; IEEE.
   - M. Anas, C. Rosa, F. D. Calabrese, P. H. Michaelsen, K. I. Pedersen, and P. E.
Hybrid Adaptive Call Admission Control Mechanism for Ensuring QoS in 3GPP: LTE Networks


Index Terms

Computer Science Communications

Keywords

Rss Qos Hcac Algorithm Handoff