عنوان مقاله:

New Multiple Threshold Based Call Admission Control for Prioritized Traffic in Cellular Network

محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی درمهندسی برق و علوم کامپیوتر (سال: 1394)

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خلاصه مقاله:

This paper presents a new model of call admission control which consists of a few key elements for protecting the network in different conditions of workload in a manner that, calls blocking /dropping are kept under desired level. This model consists of two traffic classes of voice and data. In this model in order to give a priority to handoff call over new call, some parameters are adjusted in a manner that, handoff dropping is reduced to the least probability in the target cell and adjacent cells. Some channels are reserved for voice and data calls in each cell to guarantee the quality of service requirements in the network. Limited fractional guard channel is used to have an optimized call admission control which reduces data blocking probability. At the end, the two- dimensional traffic model is simulated and the related results are reviewed.

کلمات کلیدی:

Call admission control, Call dropping probability, Call blocking probability, Cellular network