

## عنوان مقاله:

Compact pattern dynamic channel allocation: Discrete-event modeling & performance simulation of an innovative approach

## محل انتشار:

هشتمین کنفرانس سالانه انجمن کامپیوتر ایران (سال: 1381)

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## خلاصه مقاله:

With limited frequency spectrum and a tremendous growth in the demand for mobile communication services, the problem of channel assignment becomes increasingly important. In this paper a novel traffic adaptive non-uniform compact pattern assignment algorithm is presented, which can be exploited in a PCS cellular environment with highly mobile users. The proposed dynamic channel assignment scheme copes with the handoff originated call demands problem as well as focusing on reduction of the blocking probability of the new calls. The simulation of a cellular communication system comprises both discrete and continuous time processes. In this research, computer simulation results on a 49- cell network model conducted in a different manner and environment comparing to previous studies indicate superior teletraffic performance of the proposed strategy over its predecessors. By using a discrete time step model traffic simulator based on discrete-event simulation notion, the effect of users' mobility on the grade of service .is also come under study in this research

## کلمات کلیدی:

Mobile Communications, Network simulation, Discreteevent model, Channel Assignment

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/46715>

