

**Sopin E. S. C., Ageev K. A., Samouylov K. E.** (Moscow, Russia). **Effective algorithms for stationary characteristics evaluation of queuing systems with limited resources**

One of generalizations of Erlang model, queuing systems with limited resources [1], received increasing attention in recent years, since they adequately model radio resource allocation procedures in modern wireless networks. In [2], analytical expressions for main stationary characteristics were obtained. However, the final formulas imply evaluation of multiple convolutions of the resource requirements cumulative distribution function, which leads to extremely complex calculations. In this work as an extension of paper [3], we develop efficient algorithms for stationary characteristics evaluation for the considered queuing system. The developed algorithms are applicable for both discrete and continuous resource requirements.

СПИСОК ЛИТЕРАТУРЫ

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