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paper information

Study of the congestion for the dimensioning of a telephone network

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Abstract:

In this work, we have study the congestion problem of a switcher in a telephonic system in the objective of dimensioning some transmission canals of a network. The congestion in a telephonic system refers to the situation where the calls can't be treated directly for a lack of equipment. For the evaluation of congestion, we have considered the Erlang model with lost calls. The dimensioning policy consists of determining the number of lines to install and the limit number of users so that the probability of congestion in the network is lower than a specified probability threshold.

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