

عنوان مقاله:

Optimization in Internet Networks Using Data Envelopment Analysis Model with Undesirable Outputs

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خلاصه مقاله:

The purpose of this paper is to use the decision making techniques of Data Envelopment Analysis (DEA) in order to evaluate the existing Internet networks to select the most desirable networks. To achieve this goal, we first begin by simulating a specific Internet network called Differentiated Service (DS) network that provides the quality of service to the user through the mechanism of Call Admission Control (CAC). We then evaluate and rank the networks by proposing a novel DEA model in the literature of undesirable outputs. Finally, by using the results of DEA model, we select the optimal Internet network.

کلمات کلیدی:

Internet Network, Call Admission Control, Data Envelopment Analysis (DEA), undesirable outputs

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