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Improving the Models of Internet Charging in Single Link Multiple Class QoS Networks

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Abstract

In this paper, an improved internet charging scheme in multiple QoS networks will be discussed. The objective is to obtain better solution than previous results conducted by previous research. ISPs need a new charging scheme to maximize the revenue and provide better services to customers. The model is set up by fixing the fixed base price, varying the quality premium and fixing the sensitivity price for user in each class. The model is considered as Mixed Integer Nonlinear Programming (MINLP) and that can be solved by LINGO 11.0 to obtain the optimal solutions. We compare three cases of original, modified one and modified two models depending with the fixing or varying parameters or variables. The results show that by improving the pricing scheme model, the user' sensitivity price in modified two cases will yield maximum profit for ISPs.

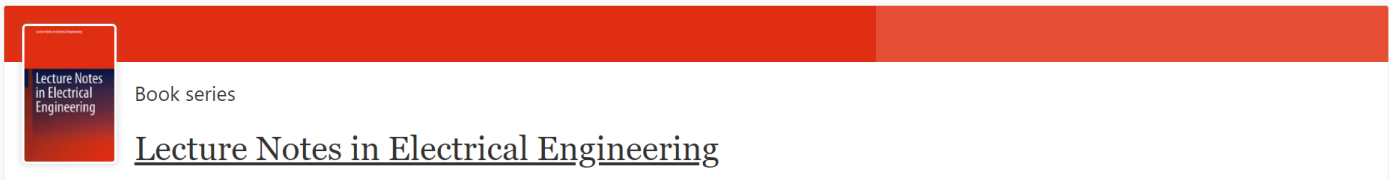
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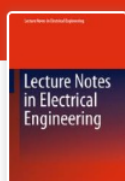
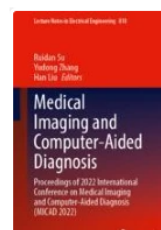
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