

Chapter 5

Conclusions

In the thesis, we present an approach for weighted utilizations of the fair resource allocation problem that considers multiple services for users under budget constraints while the weighted utilization functions may be interpreted as a measure of QoS on telecommunication networks. We use the solver BARON in software GAMS to solve Model I and II to compare different choices for optimal weights. We list all the numerical results of Model I and II and compare the structure of optimal weights between them. Numerical results show that the optimal weights have simple structures in accord with two models, respectively.