

# **Optimization Analysis in Cloud Computing**

**Samen Bairaghi, Golam Ittihad Udooy and Munnujahan Ara**

Mathematics Discipline

Khulna University

Khulna-9208, Bangladesh

## **Abstract**

The meaning of cloud computing is storing and accessing data over the cloud instead of computer's hard drive. Cloud computing company faces many problems to make decision for better opportunities and in this case Operation Research(OR) can be used to get a better solution. Cloud computing company is based mainly on three parties: (1) cloud providers, (2) cloud brokers and (3) cloud consumers and they are depending on each other. In this work we make an inter-relationship among these three parties and make a mathematical model by using supply chain. We collect past and current data and use the model to take optimize decisions for better benefit in future of each parties.

## **Keywords**

Cloud computing, operation research, optimization, IT supply chain, Pull supply chain