Defining Variables

Txn = Variable number of tasks assigned to User x of Class-type n

Uxn = Defined rating of User x for Class-type n tasks.

Bxn = Variable Binary assignment value for User x for Class-type n tasks.

Lx = Defined limit number of tasks for User x.

NT = Total number of tasks to be assigned

where

Domain of variables

Uxn exists in range: [0,1]

Bxn exists in the set: {0,1}

Limitations

Equation for User 1

Equations for consecutive users:

…

Matrix form

Equations

Optimizing equation