**PARAMETERS used for PSO-COP:**

Input as 3

Total Population size = 100

Maximum Weight = 0.9

Minimum Weight = 0.4

Maximum Iteration=1000

Maximum run = 10

Bound set formula: x0(i,j) = round(LB(j)+rand()\*(UB(j)-LB(j)))

First, we find local best and the global best value. From previous paper they have done it for 100 iteration for 6.78 seconds but We have done it for 1000 iteration for 6.28 seconds. We have done it by changing velocity and acceleration value to reduce the time complexity. Now, PSO is improved by using constrained optimization problem.