

Assignment 4

1. Find the optimal value of the Sphere function with four (4) variables using Real-Coded GA.

$$\min f(x) = \sum_{i=1}^4 x_i^2$$

where, $x_i \in [-10,10] \quad \forall i$

2. Solve the GAP problem using a Real-Coded GA and compare the results with
 - a. Optimal
 - b. Approximation
 - c. Binary-Coded GA

Also, plot a graph representing the convergence with Binary-Coded Ga over 100 iterations for GAP12.