

Assignment 6

1. Find the optimal value of the Sphere function with four (4) variables using TLBO.

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

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

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

Also, plot a graph representing the convergence over 100 iterations for GAP12 with

- a. Binary-Coded GA
- b. Real-Coded GA
- c. PSO