

ILOs

1. Structural Search

On completing this phase of the project, we will be familiar with genetic search, which is a subset of structural search. We will have utilised mechanisms like recombination, mutation and roulette wheel selection to optimise a function. Furthermore we will have used the Julia Language to implement the above mechanisms. We will have found a benchmark value to measure the performance of succeeding implementations.

2. Exploratory Search

On completing this research project, we will be able to explain the distinction between structural and exploratory search. We will be able to integrate genetic and exploratory search to improve the performance of the search algorithm, and will have abstracted rules for applying exploration to novel problems in function optimisation.