

# Steiner tree problem

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## 1 Problem description

## 2 Admissible solution

## 3 Initialisation

## 4 Variation

### 4.1 Mutation

#### 4.1.1 Adding an edge

#### 4.1.2 Adding a path

#### 4.1.3 Deleting an edge

### 4.2 Crossover

### 4.3 Combining both

## 5 Selection

### 5.1 Elitist selection

### 5.2 Elitist selection on offsprings only

### 5.3 Fitness proportional selection

### 5.4 Boltzmann selection

### 5.5 Threshold selection

## 6 Testing it all together

## 7 Conclusion