Algorithm 1 Genetic Algorithm

1: determine objective function (OF)
2: assign number of generation to 0 (t=0)
3: randomly create individuals in initial population P(t)
4: evaluate individuals in population P(t) using OF
5: **while** termination criterion is not satisfied **do**
6:     t=t+1
7:     select the individuals to population P(t) from P(t-1)
8:     change individuals of P(t) using crossover and mutation
9:     evaluate individuals in population P(t) using OF
10: **end while**
11: return the best individual found during the evolution