```
1. population = generate random initial population //Firstness
2. while stopping criteria not met do
3.         parameter tuning //Thirdness
4.         cluster analysis(population) //Thirdness
5.         for each cluster i
6.                 cluster_fittest_i = intra-cluster evolution (cluster_i) //Secondness
7.         end for
8.         population_fittest = inter-cluster evolution(cluster_fittest_1..i) //Secondness
9.         add i random individuals to the population //Firstness
```