

# Genetski algoritmi

## drugi domaći zadatak

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# Uvod

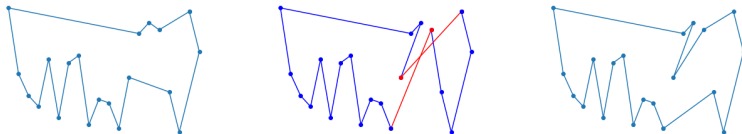
Korišćeno je simulirano kaljenje.

$$p_n = e^{-\Delta A/T_n}$$

$$T_n = T_0 \alpha^n, \alpha < 1$$

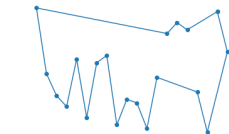
# Metoda mutacije

Zamena proizvoljna dva temena.



Slika 1: Sa leva na desno: početni, mutirani, generisani prosti poligon.

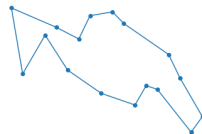
# Rezultati



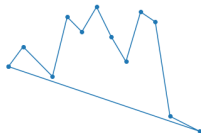
Area = 352.0



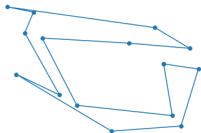
Area = 51.0



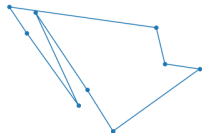
Area = 209.0



Area = 115.5



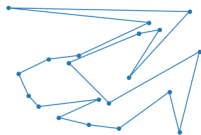
Area = 153.5



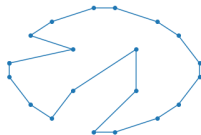
Area = 230.5

Slika 2: Početni poligoni za sve testove.

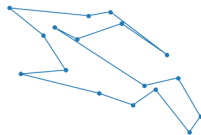
# Rezultati



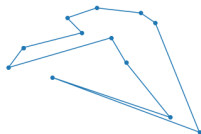
Area = 228.0



Area = 45.0



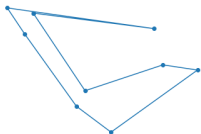
Area = 153.5



Area = 92.0



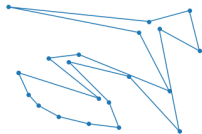
Area = 142.5



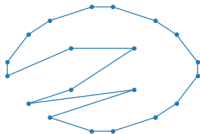
Area = 125.5

Slika 3:  $\alpha = 0.9$

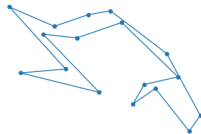
# Rezultati



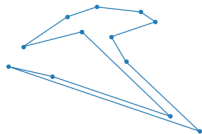
Area = 182.0



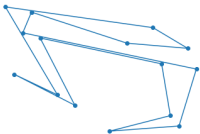
Area = 44.5



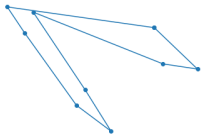
Area = 99.5



Area = 59.0



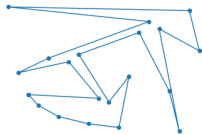
Area = 110.0



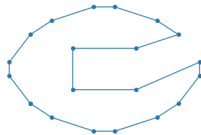
Area = 114.0

Slika 4:  $\alpha = 0.99$

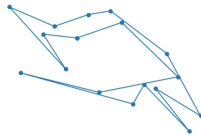
# Rezultati



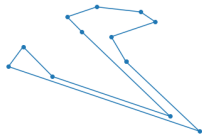
Area = 170.5



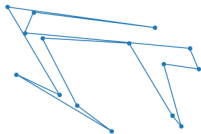
Area = 43.0



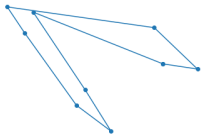
Area = 81.0



Area = 58.5



Area = 83.0



Area = 114.0

Slika 5:  $\alpha = 0.999$