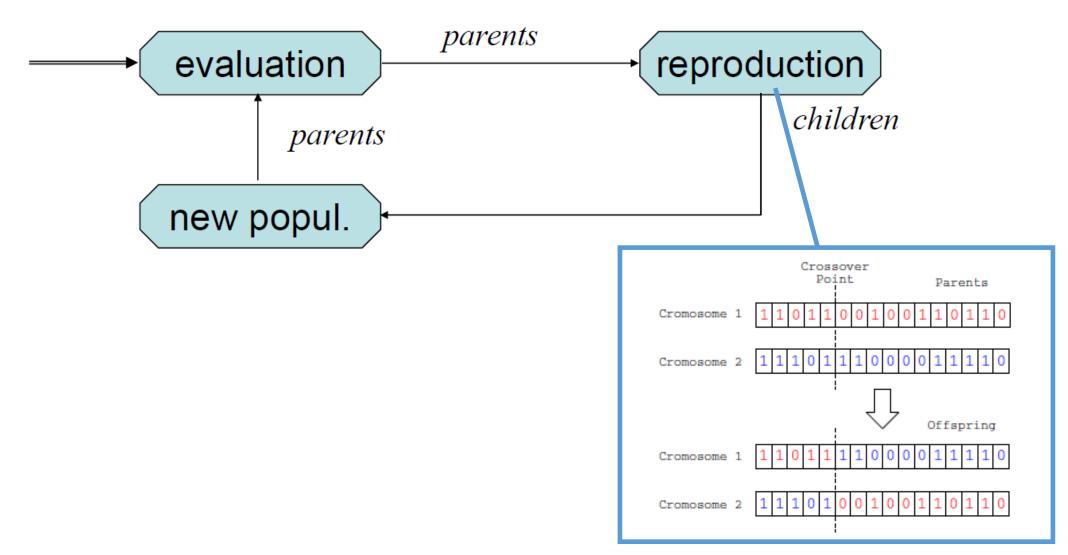
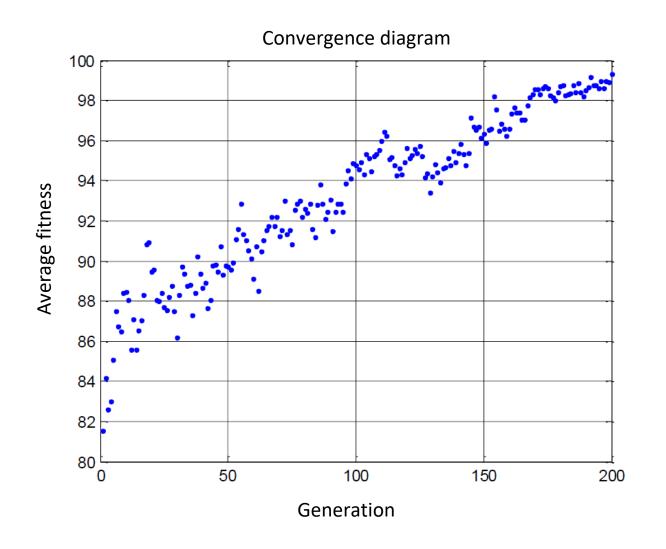
GA Matlab Algorithm

SGA Cycle

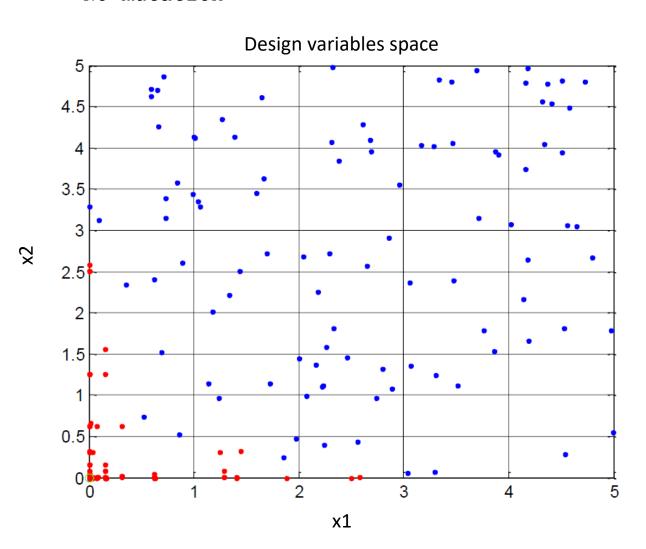
Initial population



 $y = 100-(x1.^2+x2.^2)$; x1,x2 = [0 5] 16 bits Population of 100 individuals Crossover, probability 100% NO mutation

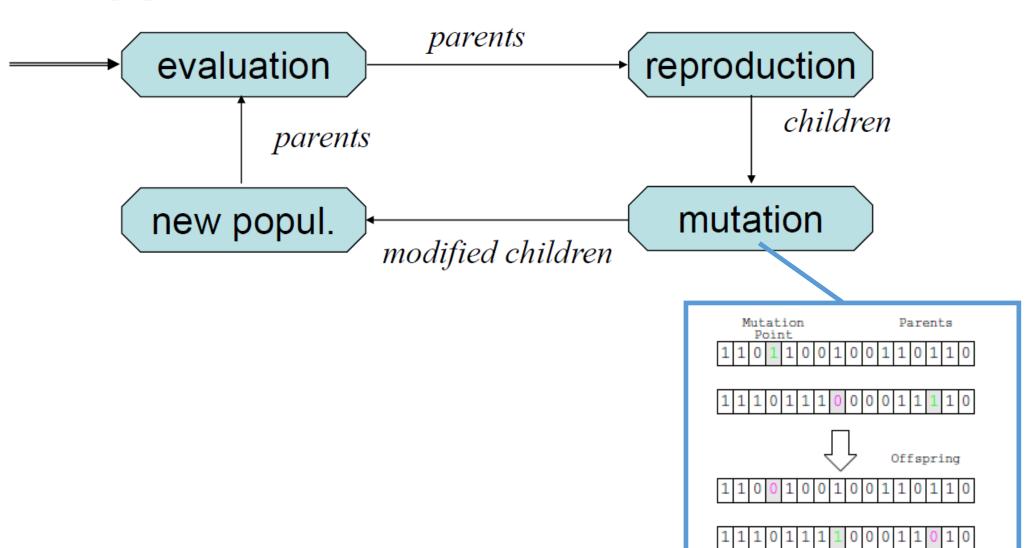


 $y = 100-(x1.^2+x2.^2)$; x1,x2 = [0 5] 16 bits Population of 100 individuals Crossover, probability 100% NO mutation

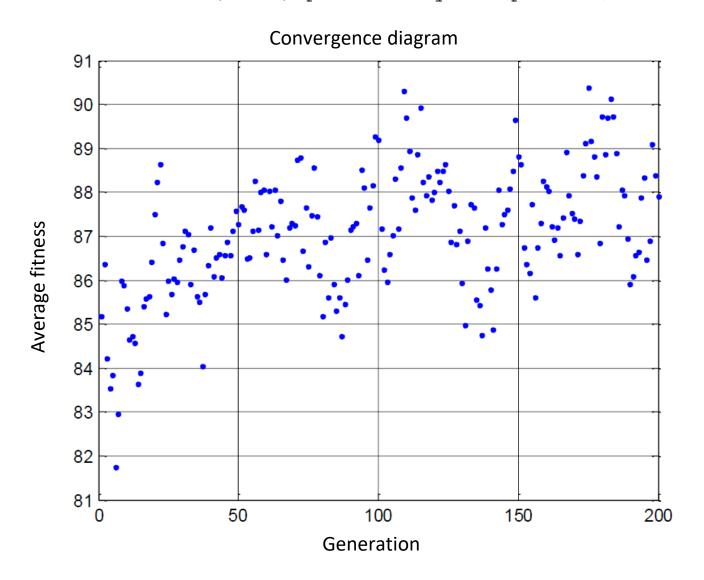


SGA Cycle

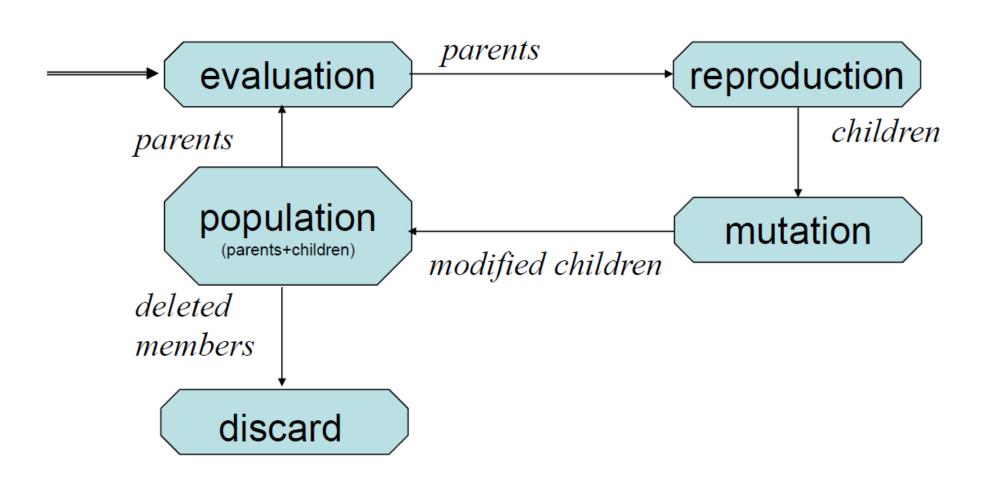
Initial population



 $y = 100-(x1.^2+x2.^2)$; x1,x2 = [0 5] 16 bits Population of 100 individuals Crossover, probability 100% Mutation, YES, probability 2% (par=0.5)



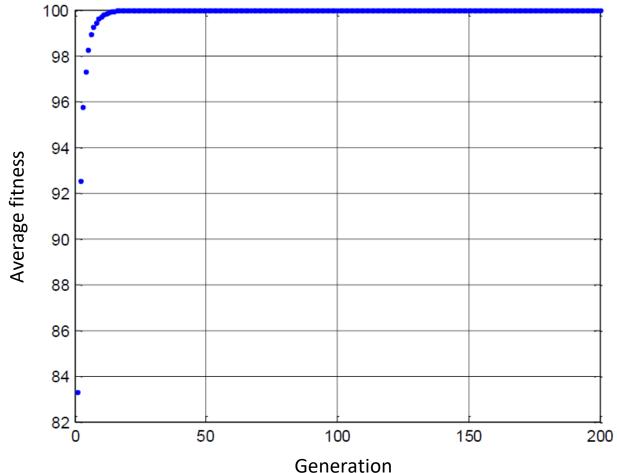
Standard GA Cycle



 $y = 100-(x1.^2+x2.^2)$; x1,x2 = [0 5] 16 bits Population of 100 individuals Crossover, probability 100% Mutation, YES, probability 2% (par=0.5) Selection of best individuals

Convergence diagram





 $y = 100-(x1.^2+x2.^2)$; x1,x2 = [0 5] 16 bits Population of 100 individuals Crossover, probability 100% Mutation, YES, probability 2% (par=0.5) Selection of best individuals

Design variables space

