

FORMAÇÃO INTELIGÊNCIA ARTIFICIAL E MACHINE LEARNING

ALGORITMOS GENÉTICOS EXEMPLO PASSO A PASSO

Prof. Fernando Amaral –Todos os Diretos Reservados

Exemplo

Objetivo

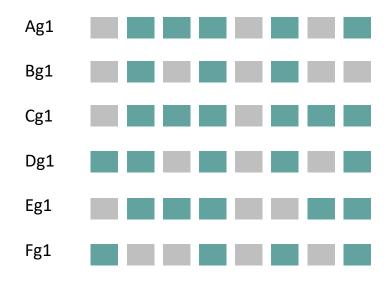


Função

$$\mathsf{F} = \textstyle \sum_{I=1}^N G$$



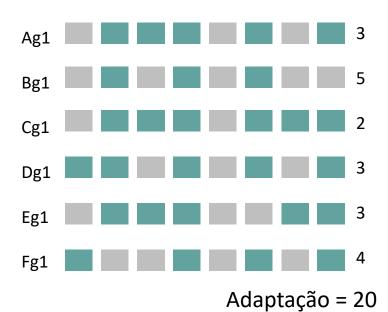
Inicialização







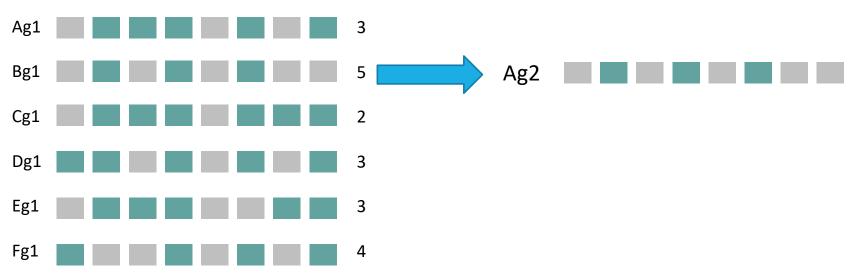
Mede a Adaptação







Elitismo

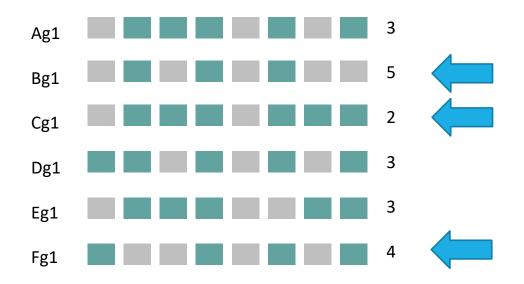






Crossover

Roleta







Crossover: ponto único

Bg1 x Cg1



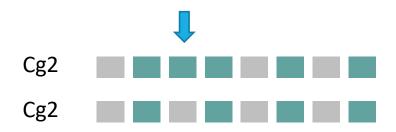
Herdeiros: Bg2

Cg2





Mutação

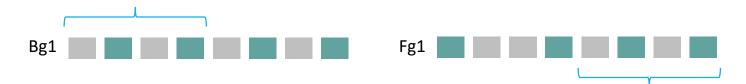






Crossover: ponto único

Bg1 x Fg1

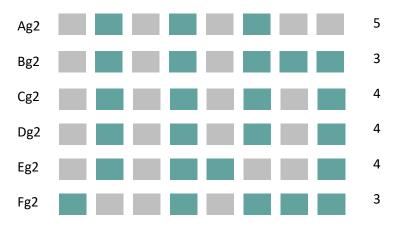








Nova Geração



Adaptação = 23 Melhora: 15%



