

Question 4: Genetic Algorithm: Evolve Fitter Candidate Solution

Suppose a genetic algorithm uses chromosomes of the form $X = abcdefgh$ with a fixed length of eight genes. Each gene can be any digit between 0 and 9. Let the fitness of individual x be calculated as:

$$f(x) = (a + b) + (c + d) + (e + f) - (g + h)$$

and let the initial population consist of four individuals with the following chromosomes:

$$X_1 = 65413532$$

$$X_2 = 87126601$$

$$X_3 = 23921285$$

$$X_4 = 41852094$$

Improve the total fitness using Genetic algorithm process. Show your work.

Genetic Algorithm Questions And Answers

Alexandra I. Cristea, Christos Troussas



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