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Natural Selection. It is no frequently used to find optimal or near-optimal solutions to difficult problems which otherwise would take a lifetime to solve. It is frequently used to solve optimization Page 17/51

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of John Holland, the father of genetic algorithms—and his deep understanding of the material shines through.

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just one of the tools for e intelligent searching through many possible solutions. GA is a metaheuristic search and optimization technique based on principles present in natural evolution. It Page 26/51

belongs to a larger class of evolutionary algorithms.

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The genetic algorithm is a general purpose, population-Page 27/51

based search algorithm in which the individuals in the population represent samples from the set of all possibilities, whether they are solutions in a problem space, strategies for a game, rules in classifier Page 28/51

systems, or arguments for problems in function optimization. The individuals evolve

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Two individuals are selected using selection operator...

3) Mutation Operator: The key ...

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commonly used to generate e high-quality solutions to optimization and search problems by relying on biologically inspired operators such as mutation, crossover and selection. [1]

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algorithm (MA), often called hybrid genetic algorithm Simulated annealing (SA), and Tabu search (TS)

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