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In computer science and operations research, a genetic algorithm (GA) is a metaheuristic inspired by the process of natural selection that belongs to the larger class of evolutionary algorithms (EA).

Genetic algorithms are commonly used to generate high-quality solutions to optimization and search problems by relying on biologically

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inspired operators such as mutation, crossover and selection.

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tutorial fashion - the  
computer techniques,  
mathematical tools,  
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that will enable both  
students and  
practitioners to apply  
genetic algorithms to

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Introduction. Genetic  
Algorithm (GA) is a  
search-based  
optimization technique  
based on the principles  
of Genetics and Natural  
Selection. It is  
frequently used to find  
optimal or near-optimal

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problems which  
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The genetic algorithm

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is a random-based classical evolutionary algorithm. By random here we mean that in order to find a solution using the GA, random changes applied to the current solutions to generate new ones. Note that GA may be called Simple GA (SGA) due to its simplicity compared to other EAs. GA is based on Darwin's theory of evolution.

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The genetic algorithm (GA) is a search heuristic that is routinely used to generate useful solutions to optimization and search problems. It generates solutions to optimization problems using...

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**Global ...**

Genetic algorithms

(GAs) are general-  
purpose search

algorithms widely

employed in different

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engineering as both

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techniques that mimic

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far the bestselling

introduction to genetic

algorithms. Goldberg is

one of the preeminent

researchers in the

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field--he has published over 100 research articles on genetic algorithms and is a student of John Holland, the father of genetic algorithms--and his deep understanding of the material shines through.

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Genetic algorithms

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(GAs) are stochastic search algorithms inspired by the basic principles of biological evolution and natural selection. GAs simulate the evolution of living organisms, where the fittest individuals dominate over the weaker ones, by mimicking the biological mechanisms of evolution, such as selection, crossover and mutation.

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The text introduces the theory, operation, and application of genetic algorithms----search algorithms based on the mechanics of natural selection and genetics.

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Computing is the study of natural and artificial information processes. In the domain of Artificial Intelligence, evolutionary algorithms are playing a vital role in optimization problems....

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