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Some of the theoretical results are also confirmed by performing an experiment in meta-evolution on a parallel computer. The meta-algorithm strategies and genetic algorithms to yield a hybrid capable of

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handling mixed integer optimization problems. As a detailed description of the algorithms, with practical guidelines for usage and implementation, this work will interest a wide range of researchers in computer science and engineering disciplines, as well as graduate students in these fields.

~~Evolutionary Algorithms in Theory and Practice: Evolution ...~~

In computational intelligence, an evolutionary algorithm is a subset of evolutionary computation, a generic population-based metaheuristic optimization algorithm. An EA uses mechanisms inspired by biological evolution, such as reproduction, mutation, recombination, and selection. Candidate solutions to the optimization problem play the role of individuals in a population, and the fitness function determines the quality

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of the solutions. Evolution of the population then takes place after the repe

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This book presents a unified view of evolutionary algorithms: the exciting new probabilistic search tools inspired by biological models that have immense potential as practical problem-solvers in a wide variety of settings, academic, commercial, and industrial. In this work, the author compares the three most prominent representatives of evolutionary algorithms: genetic algorithms, evolution

...

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The Genetic Algorithm is an heuristic optimization method inspired by that procedures of natural evolution. In a genetic algorithm, the standard

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representation of solutions is an array of bits....

An Introduction to Evolutionary Algorithms and Code with ...

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Evolutionary algorithms in theory and practice: evolution strategies, evolutionary programming, genetic algorithms . 1996. Abstract. No abstract available. Cited By. Papa G and Doerr C Dynamic control parameter choices in evolutionary computation Proceedings of the 2020

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Genetic and Evolutionary Computation Conference Companion, (927-956)

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Our discussion includes short descriptions of genetic algorithms, evolution strategies, evolutionary programming and genetic programming. Then, a few case studies involving applications of evolutionary algorithms in real-world problems are analyzed. In the final part of the paper, some of the current research directions in this area are provided.

~~An Introduction to Evolutionary Algorithms and Their ...~~

From the early 1950s, multiple well-documented attempts to make Darwin ' s algorithm work on a computer have been published under such names as Evolutionary Programming 12,

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Evolutionary Strategies 13, Genetic Algorithms 14, Genetic Programming 15, Genetic Improvement 16, Gene Expression Programming 17, Differential Evolution 18, Neuroevolution 19, and Artificial Embryogeny 20.

~~On Evolutionary Computation +
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2 EVOLUTIONARY ALGORITHMS

EAs are computer programs that attempt to solve complex problems by mimicking the processes of Darwinian evolution.¹ In an EA a number of artificial creatures search over the space of the problem.

They compete continually with each other to discover optimal areas of the search space. It is hoped that

~~Genetic and Evolutionary Algorithms—
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In this work, the author compares the

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three most prominent representatives of evolutionary algorithms: genetic algorithms, evolution strategies, and evolutionary programming. The algorithms are presented within a unified framework, thereby clarifying the similarities and differences of these methods. The author also presents new results regarding the role of mutation and selection in genetic algorithms, showing how mutation seems to be much more important for the performance of genetic ...

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An Evolutionary Algorithm (EA) replaces the decision making by the chemist, using evolutionary principles to explore the problem-space. EAs handle situations that are too complex to be solved with current knowledge or capability using a form of

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Evolutionary Programming and Evolution Strategies, rather similar representatives of a class of probabilistic optimization algorithms gleaned from the model of organic evolution, are discussed and...

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In computer science, evolutionary computation is a family of algorithms for global optimization inspired by biological evolution, and the subfield of artificial intelligence and soft computing studying these algorithms. In technical terms, they are a family of population-based trial and error problem solvers with a metaheuristic or stochastic optimization character. In evolutionary computation, an initial set of

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candidate solutions is generated and iteratively updated. Each new generation is pro

~~Evolutionary computation – Wikipedia~~

This chapter presented the biological motivation and fundamental aspects of evolutionary algorithms and its constituents, namely genetic algorithm, evolution strategies, evolutionary programming and genetic programming. Most popular variants of genetic programming are introduced. Important advantages of evolutionary computation while compared to classical optimization techniques are also discussed.

~~Evolutionary Computation: from Genetic Algorithms to ...~~

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