



Genetic Algorithms: Concepts and Designs (Advanced Textbooks in Control and Signal Processing)

By Kim-Fung Man, Kit-Sang Tang, Sam Kwong

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This comprehensive book gives a overview of the latest discussions in the application of genetic algorithms to solve engineering problems. Featuring real-world applications and an accompanying disk, giving the reader the opportunity to use an interactive genetic algorithms demonstration program.

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Editorial Review

Review

From the reviews:

This superb book is suitable for readers from a wide range of disciplines.

Assembly Automation 20 (2000) 86

This is a well-written engineering textbook. Genetic algorithms are properly explained and well motivated. The engineering examples illustrate the power of application of genetic algorithms.

Journal of the American Statistical Association March (2002) 366 (Reviewer: William F. Fulkerson)

The book is a good contribution to the genetic algorithm area from an applied point of view. It should be read by engineers, undergraduate or postgraduate students and researchers.

International Journal of Adaptive Control and Signal Processing 19 (2005) 59 – 62 (Reviewer: Doris Saez)

From the Back Cover

The practical application of genetic algorithms to the solution of engineering problems, has rapidly become an established approach in the fields of control and signal processing. *Genetic Algorithms* provides comprehensive coverage of the techniques involved, describing the intrinsic characteristics, advantages and constraints of genetic algorithms, as well as discussing genetic operations such as crossover, mutation and reinsertion. In addition, the principle of multiobjective optimization and computing parallelism are discussed. The use of genetic algorithms in many areas of interest in control and signal processing is detailed; among the areas of application are:

- filtering;
- H -infinity control;
- speech recognition;
- production planning and scheduling;
- computational intelligence; and
- communication systems.

Also described is an original hierarchical genetic algorithm designed to address the problems in determining

system topology.

The authors provide "A Game of Genetic Creatures", a fundamental study for GA based on computer-generated insects to demonstrate some of the ideas developed in the text as a download available from www.springer.com/1-85233-072-4.

This superb book is suitable for readers from a wide range of disciplines.

Assembly Automation

This is a well-written engineering textbook. Genetic algorithms are properly explained and well motivated. The engineering examples illustrate the power of application of genetic algorithms.

Journal of the American Statistical Association

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International Journal of Adaptive Control and Signal Processing

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