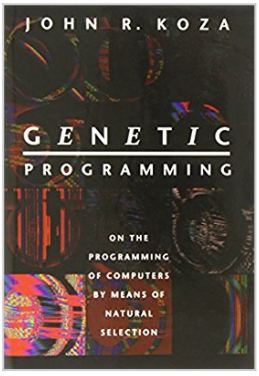

Genetic Programming: On the Programming of Computers by Means of Natural Selection (Complex Adaptive Systems)

By John R. Koza

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Genetic programming may be more powerful than neural networks and other machine learning techniques, able to solve problems in a wider range of disciplines. In this ground-breaking book, John Koza shows how this remarkable paradigm works and provides substantial empirical evidence that solutions to a great variety of problems from many different fields can be found by genetically breeding populations of computer programs. *Genetic Programming* contains a great many worked examples and includes a sample computer code that will allow readers to run their own programs.In getting computers to solve problems without being explicitly programmed, Koza stresses two points: that seemingly different problems from a variety of fields can be reformulated as problems of program induction, and that the recently developed genetic programming paradigm provides a way to search the space of possible computer programs for a highly fit individual computer program to solve the problems of program induction. Good programs are found by evolving them in a computer against a fitness measure instead of by sitting down and writing them.

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Editorial Review

Review

John Koza has discovered a general and robust method of evolving computer programs that is effective over a breathtaking range of problems in applied mathematics, control engineering, and artificial intelligence.

(Stewart W. Wilson, The Rowland Institute for Science)

The research reported in this book is a tour de force. For the first time, since the idea was bandied about in the '40s and early '50s, we have a non-trivial, nontailored set of examples of automatic programming.

(John Holland, Professor of Psychology and Professor of Computer Science and Engineering, University of Michigan; External Professor, Santa Fe Institute)

From the Back Cover
Genetic programming may be more powerful than neural networks and other machine learning techniques; it may be able to solve problems in a wider range of disciplines. In this groundbreaking book, the author shows how this remarkable paradigm works and provides substantial empirical evidence that solutions to a great variety of problems from many different fields can be found by genetically breeding populations of computer programs.

About the Author
John R. Koza is Consulting Associate Professor in the Computer Science Department at Stanford University.

Users Review

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Margaret Clayton:

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Susie Vadnais:

In this particular era which is the greater man or woman or who has ability in doing something more are more special than other. Do you want to become among it? It is just simple strategy to have that. What you need to do is just spending your time not much but quite enough to have a look at some books. One of several books in the top record in your reading list is Genetic Programming: On the Programming of Computers by Means of Natural Selection (Complex Adaptive Systems). This book and that is qualified as The Hungry Hills can get you closer in becoming precious person. By looking upwards and review this guide you can get many advantages.

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