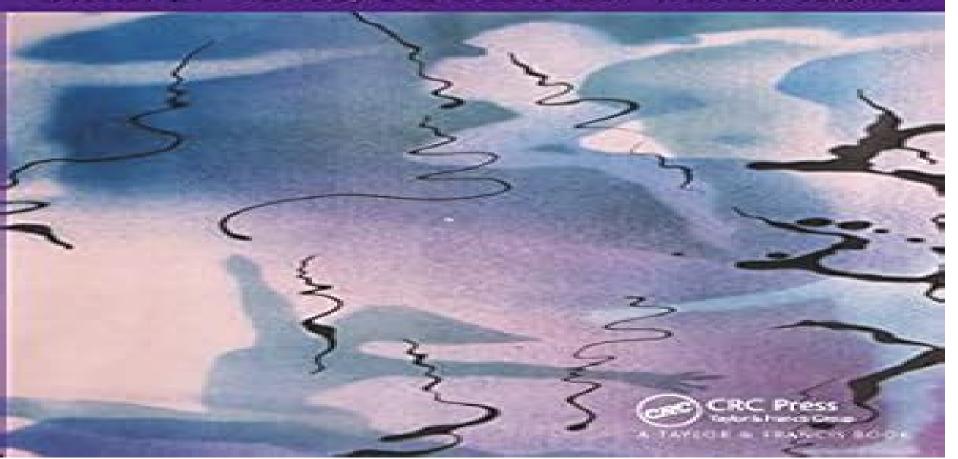
# Evolutionary Computation 1

BASIC ALGORITHMS AND OPERATORS

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# **Evolutionary Computation 1 Basic Algorithms And Operators**

**Alex A. Freitas** 

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explains the basic ideas of the proposed systems and the financial problems in ways that can be understood by readers without previous knowledge on either of the fields To cement the ideas discussed in the book software packages are offered that implement the systems described within The book is structured so that each chapter can be read independently from the others Chapters 1 and 2 describe evolutionary computation The third chapter is an introduction to financial engineering problems for readers who are unfamiliar with this area The following chapters each deal in turn with a different problem in the financial engineering field describing each problem in detail and focusing on solutions based on evolutionary computation Finally the two appendixes describe software packages that implement the solutions discussed in this book including installation manuals and parameter explanations Automating the Design of Data Mining Algorithms Gisele L. Pappa, Alex Freitas.2009-10-27 Data mining is a very active research area with many successful real world app cations It consists of a set of concepts and methods used to extract interesting or useful knowledge or patterns from real world datasets providing valuable support for decision making in industry business government and science Although there are already many types of data mining algorithms available in the literature it is still dif cult for users to choose the best possible data mining algorithm for their particular data mining problem In addition data mining all rithms have been manually designed therefore they incorporate human biases and preferences This book proposes a new approach to the design of data mining algorithms stead of relying on the slow and ad hoc process of manual algorithm design this book proposes systematically automating the design of data mining algorithms with an evolutionary computation approach More precisely we propose a genetic p gramming system a type of evolutionary computation method that evolves c puter programs to automate the design of rule induction algorithms a type of cl si cation method that discovers a set of classi cation rules from data We focus on genetic programming in this book because it is the paradigmatic type of machine learning method for automating the generation of programs and because it has the advantage of performing a global search in the space of candidate solutions data mining algorithms in our case but in principle other types of search methods for this task could be investigated in the future

Data Mining and Knowledge Discovery with Evolutionary Algorithms Alex A. Freitas, 2002-08-21 This book integrates two areas of computer science namely data mining and evolutionary algorithms Both these areas have become increasingly popular in the last few years and their integration is currently an active research area In general data mining consists of extracting knowledge from data The motivation for applying evolutionary algorithms to data mining is that evolutionary algorithms are robust search methods which perform a global search in the space of candidate solutions This book emphasizes the importance of discovering comprehensible interesting knowledge which is potentially useful for intelligent decision making The text explains both basic concepts and advanced topics \*\*Optimization Of Structural And Mechanical Systems\*\* Jasbir S Arora, 2007-09-05 Computational optimization methods have matured over the last few years due to extensive research by applied mathematicians and engineers These methods have been applied to many practical

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