

Chapter 8

Genetic Algorithm Implementation Using Matlab

8.1 Introduction

MATLAB (Matrix Laboratory), a product of Mathworks, is a scientific software package designed to provide integrated numeric computation and graphics visualization in high-level programming language. Dr Cleve Moler, Chief scientist at MathWorks, Inc., originally wrote MATLAB, to provide easy access to matrix software developed in the LINPACK and EISPACK projects. The very first version was written in the late 1970s for use in courses in matrix theory, linear algebra, and numerical analysis. MATLAB is therefore built upon a foundation of sophisticated matrix software, in which the basic data element is a matrix that does not require predimensioning.

MATLAB has a wide variety of functions useful to the genetic algorithm practitioner and those wishing to experiment with the genetic algorithm for the first time. Given the versatility of MATLAB's high-level language, problems can be coded in m-files in a fraction of the time that it would take to create C or Fortran programs for the same purpose. Couple this with MATLAB's advanced data analysis, visualisation tools and special purpose application domain toolboxes and the user is presented with a uniform environment with which to explore the potential of genetic algorithms.

The Genetic Algorithm Toolbox uses MATLAB matrix functions to build a set of versatile tools for implementing a wide range of genetic algorithm methods. The Genetic Algorithm Toolbox is a collection of routines, written mostly in m-files, which implement the most important functions in genetic algorithms.

8.2 Data Structures

MATLAB essentially supports only one data type, a rectangular matrix of real or complex numeric elements. The main data structures in the Genetic Algorithm toolbox are:

- chromosomes
- objective function values
- fitness values

Chapter8 Genetic Algorithm Implementation Using Matlab

Randy L. Haupt, Sue Ellen Haupt



Chapter8 Genetic Algorithm Implementation Using Matlab:

Introduction to Genetic Algorithms S.N. Sivanandam, S. N. Deepa, 2007-10-24

The origin of evolutionary algorithms was an attempt to mimic some of the processes taking place in natural evolution. Although the details of biological evolution are not completely understood even nowadays, there exist some points supported by strong experimental evidence. Evolution is a process operating over chromosomes rather than over organisms. The former are organic tools encoding the structure of a living being; i.e., a creature is built decoding a set of chromosomes. Natural selection is the mechanism that relates chromosomes with the efficiency of the entity they represent, thus allowing that efficient organism which is well adapted to the environment to reproduce more often than those which are not. The evolutionary process takes place during the reproduction stage. There exists a large number of reproductive mechanisms in Nature. Most common ones are mutation that causes the chromosomes of offspring to be different to those of the parents and recombination that combines the chromosomes of the parents to produce the offspring. Based upon the features above, the three mentioned models of evolutionary computing were independently and almost simultaneously developed.

Genetic Algorithms Mr. Rohit Manglik, 2023-05-23 This book offers a detailed exploration of genetic algorithms focusing on key concepts, methodologies, and practical implementations relevant to modern engineering and technology practices.

Optimization Concepts and Applications in Engineering Ashok D. Belegundu, Tirupathi R. Chandrupatla, 2019-06-06 Organizations and businesses strive toward excellence and solutions to problems are based mostly on judgment and experience. However, increased competition and consumer demands require that the solutions be optimum and not just feasible. Theory leads to algorithms. Algorithms need to be translated into computer codes. Engineering problems need to be modeled. Optimum solutions are obtained using theory and computers and then interpreted. Revised and expanded in its third edition, this textbook integrates theory, modeling, development of numerical methods, and problem solving, thus preparing students to apply optimization to real-world problems. This text covers a broad variety of optimization problems using unconstrained, constrained, gradient, and non-gradient techniques, duality concepts, multi-objective optimization, linear, integer, geometric, and dynamic programming with applications and finite element based optimization. It is ideal for advanced undergraduate or graduate courses in optimization design and for practicing engineers.

Applied Intelligent Control of Induction Motor Drives Tze Fun Chan, Keli Shi, 2011-01-19 Induction motors are the most important workhorses in industry. They are mostly used as constant speed drives when fed from a voltage source of fixed frequency. Advent of advanced power electronic converters and powerful digital signal processors, however, has made possible the development of high performance adjustable speed AC motor drives. This book aims to explore new areas of induction motor control based on artificial intelligence (AI) techniques in order to make the controller less sensitive to parameter changes. Selected AI techniques are applied for different induction motor control strategies. The book presents a practical computer simulation model of the induction motor that could be used for studying

various induction motor drive operations The control strategies explored include expert system based acceleration control hybrid fuzzy PI two stage control neural network based direct self control and genetic algorithm based extended Kalman filter for rotor speed estimation There are also chapters on neural network based parameter estimation genetic algorithm based optimized random PWM strategy and experimental investigations A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book s Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives electric vehicles and electric ship propulsion Graduate students in intelligent control applied electric motion and energy as well as engineers in industrial electronics automation and electrical transportation will also find this book helpful Simulation materials available for download at www.wiley.com/go/chanmotor

Fuzzy Controllers Teodor Lucian Grigorie, 2011-02-28 Trying to meet the requirements in the field present book treats different fuzzy control architectures both in terms of the theoretical design and in terms of comparative validation studies in various applications numerically simulated or experimentally developed Through the subject matter and through the inter and multidisciplinary content this book is addressed mainly to the researchers doctoral students and students interested in developing new applications of intelligent control but also to the people who want to become familiar with the control concepts based on fuzzy techniques Bibliographic resources used to perform the work includes books and articles of present interest in the field published in prestigious journals and publishing houses and websites dedicated to various applications of fuzzy control Its structure and the presented studies include the book in the category of those who make a direct connection between theoretical developments and practical applications thereby constituting a real support for the specialists in artificial intelligence modelling and control fields *Integration of an Adaptive Ground Construct Model Into the Dynamic Simulation of Gait* C. David Remy, 2006 *Technometrics* ,2005 *Mathematical Reviews* ,2006 **Proceedings** ,2000

Soft Computing and Intelligent Systems Design Fakhreddine O. Karray, Clarence W. De Silva, 2004 Traditional artificial intelligence AI techniques are based around mathematical techniques of symbolic logic with programming in languages such as Prolog and LISP invented in the 1960s These are referred to as crisp techniques by the soft computing community The new wave of AI methods seeks inspiration from the world of biology and is being used to create numerous real world intelligent systems with the aid of soft computing tools These new methods are being increasingly taught at the upper end of the curriculum sometimes as an adjunct to traditional AI courses and sometimes as a replacement for them Where a more radical approach is taken and the course is being taught at an introductory level we have recently published Negnevitsky s book Karray and Silva will be suitable for the majority of courses which will be found at an advanced level Karray and de

Silva cover the problem of control and intelligent systems design using soft computing techniques in an integrated manner They present both theory and applications including industrial applications and the book contains numerous worked examples problems and case studies Covering the state of the art in soft computing techniques the book gives the reader sufficient knowledge to tackle a wide range of complex systems for which traditional techniques are inadequate

Government Reports Announcements & Index ,1994 *Choice* ,1996 *Practical Genetic Algorithms* Randy L.

Haupt,Sue Ellen Haupt,2004-07-16 This book deals with the fundamentals of genetic algorithms and their applications in a variety of different areas of engineering and science Most significant update to the second edition is the MATLAB codes that accompany the text Provides a thorough discussion of hybrid genetic algorithms Features more examples than first edition

OPTIMIZATION with MATLAB USING the GENETIC ALGORITHM. MULTIOBJECTIVE OPTIMIZATION J

Lopez,2019-06-28 Global Optimization Toolbox provides functions that search for global solutions to problems that contain multiple maxima or minima Toolbox solvers include surrogate pattern search genetic algorithm particle swarm simulated annealing multi start and global search The genetic algorithm is a method for solving both constrained and unconstrained optimization problems that is based on natural selection the process that drives biological evolution The genetic algorithm repeatedly modifies a population of individual solutions At each step the genetic algorithm selects individuals at random from the current population to be parents and uses them to produce the children for the next generation Over successive generations the population evolves toward an optimal solution You can apply the genetic algorithm to solve a variety of optimization problems that are not well suited for standard optimization algorithms including problems in which the objective function is discontinuous nondifferentiable stochastic or highly nonlinear The genetic algorithm can address problems of mixed integer programming where some components are restricted to be integer valued A surrogate is a function that approximates an objective function The surrogate is useful because it takes little time to evaluate So for example to search for a point that minimizes an objective function simply evaluate the surrogate on thousands of points and take the best value as an approximation to the minimizer of the objective function Surrogate optimization is best suited to time consuming objective functions The objective function need not be smooth but the algorithm works best when the objective function is continuous Surrogate optimization attempts to find a global minimum of an objective function using few objective function evaluations To do so the algorithm tries to balance the optimization process between two goals exploration and speed Simulated annealing is a method for solving unconstrained and bound constrained optimization problems The method models the physical process of heating a material and then slowly lowering the temperature to decrease defects thus minimizing the system energy At each iteration of the simulated annealing algorithm a new point is randomly generated The distance of the new point from the current point or the extent of the search is based on a probability distribution with a scale proportional to the temperature The algorithm accepts all new points that lower the objective but also with a certain probability points that

raise the objective By accepting points that raise the objective the algorithm avoids being trapped in local minima and is able to explore globally for more possible solutions An annealing schedule is selected to systematically decrease the temperature as the algorithm proceeds As the temperature decreases the algorithm reduces the extent of its search to converge to a minimum

The Practical Handbook of Genetic Algorithms Lance D. Chambers,2019-09-17 The mathematics employed by genetic algorithms GAs are among the most exciting discoveries of the last few decades But what exactly is a genetic algorithm A genetic algorithm is a problem solving method that uses genetics as its model of problem solving It applies the rules of reproduction gene crossover and mutation to pseudo organism

The Practical Handbook of Genetic Algorithms Lance D. Chambers,2000-12-07 Rapid developments in the field of genetic algorithms along with the popularity of the first edition precipitated this completely revised thoroughly updated second edition of The Practical Handbook of Genetic Algorithms Like its predecessor this edition helps practitioners stay up to date on recent developments in the field and provides material

Genetic Algorithm and Direct Search Toolbox for Use with MATLAB® ,2005 Genetic Algorithm and Direct Search Toolbox ,2007 **Genetic Algorithms + Data Structures = Evolution Programs** Zbigniew Michalewicz,2013-03-09 Genetic algorithms are founded upon the principle of evolution i e survival of the fittest Hence evolution programming techniques based on genetic algorithms are applicable to many hard optimization problems such as optimization of functions with linear and nonlinear constraints the traveling salesman problem and problems of scheduling partitioning and control The importance of these techniques has been growing in the last decade since evolution programs are parallel in nature and parallelism is one of the most promising directions in computer science The book is self contained and the only prerequisite is basic undergraduate mathematics It is aimed at researchers practitioners and graduate students in computer science and artificial intelligence operations research and engineering This second edition includes several new sections and many references to recent developments A simple example of genetic code and an index are also added Writing an evolution program for a given problem should be an enjoyable experience this book may serve as a guide to this task

Genetic Algorithms and Genetic Programming Michael Affenzeller,Stefan Wagner,Stephan Winkler,Andreas Beham,2009-04-09 Genetic Algorithms and Genetic Programming Modern Concepts and Practical Applications discusses algorithmic developments in the context of genetic algorithms GAs and genetic programming GP It applies the algorithms to significant combinatorial optimization problems and describes structure identification using HeuristicLab as a platform for al

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