

# Genetic Algorithms and Investment Strategies

Richard J. Bauer

# Genetic Algorithms And Investment Strategies

**CO Houle**



## **Genetic Algorithms And Investment Strategies:**

**Genetic Algorithms and Investment Strategies** Richard J. Bauer, 1994-03-31 When you combine nature's efficiency and the computer's speed the financial possibilities are almost limitless Today's traders and investment analysts require faster sleeker weaponry in today's ruthless financial marketplace Battles are now waged at computer speed with skirmishes lasting not days or weeks but mere hours In his series of influential articles Richard Bauer has shown why these professionals must add new computerized decision making tools to their arsenal if they are to succeed In *Genetic Algorithms and Investment Strategies* he uniquely focuses on the most powerful weapon of all revealing how the speed power and flexibility of GAs can help them consistently devise winning investment strategies The only book to demonstrate how GAs can work effectively in the world of finance it first describes the biological and historical bases of GAs as well as other computerized approaches such as neural networks and chaos theory It goes on to compare their uses advantages and overall superiority of GAs In subsequently presenting a basic optimization problem *Genetic Algorithms and Investment Strategies* outlines the essential steps involved in using a GA and shows how it mimics nature's evolutionary process by moving quickly toward a near optimal solution Introduced to advanced variations of essential GA procedures readers soon learn how GAs can be used to solve large complex problems and smaller sets of problems Serve the needs of traders with widely different investment philosophies Develop sound market timing trading rules in the stock and bond markets Select profitable individual stocks and bonds Devise powerful portfolio management systems Complete with information on relevant software programs a glossary of GA terminology and an extensive bibliography covering computerized approaches and market timing *Genetic Algorithms and Investment Strategies* unveils in clear nontechnical language a remarkably efficient strategic decision making process that when imaginatively used enables traders and investment analysts to reap significant financial rewards

*Use of Genetic Algorithms for Optimal Investment Strategies* Fan Zhang, 2013 In this project a genetic algorithm GA is used in the development of investment strategies to decide the optimum asset allocations that back up a portfolio of term insurance contracts and the re-balancing strategy to respond to the changing financial markets such as change in interest rates and mortality experience The objective function used as the target to be maximized in GA allows us to accommodate three objectives that should be of interest to the management in insurance companies The three objectives under consideration are maximizing the total value of wealth at the end of the period minimizing the variance of the total value of the wealth across the simulated interest rate scenarios and achieving consistent returns on the portfolio from year to year One objective may be in conflict with another and GA tries to find a solution among the large searching space of all the solutions that favors a particular objective as specified by the user while not worsening other objectives too much Duration matching a popular approach to manage risks underlying the traditional life insurance portfolios is used as a benchmark to examine the effectiveness of the strategies obtained through the use of genetic algorithms Experiments are conducted to compare the

performance of the investment strategy proposed by the genetic algorithm to the duration matching strategy in terms of the different objectives under the testing scenarios The results from the experiments successfully illustrate that with the help of GA we are able to find a strategy very similar to the strategy from duration matching We are also able to find other strategies that could outperform duration matching in terms of some of the desired objectives and are robust in the tested changing environment of interest rate and mortality

### **Evolutionary Algorithms in Management Applications** Jörg

Biethahn, Volker Nissen, 2012-12-06 Evolutionary Algorithms EA are powerful search and optimisation techniques inspired by the mechanisms of natural evolution They imitate on an abstract level biological principles such as a population based approach the inheritance of information the variation of information via crossover mutation and the selection of individuals based on fitness The most well known class of EA are Genetic Algorithms GA which have received much attention not only in the scientific community lately Other variants of EA in particular Genetic Programming Evolution Strategies and Evolutionary Programming are less popular though very powerful too Traditionally most practical applications of EA have appeared in the technical sector Management problems for a long time have been a rather neglected field of EA research This is surprising since the great potential of evolutionary approaches for the business and economics domain was recognised in pioneering publications quite a while ago John Holland for instance in his seminal book *Adaptation in Natural and Artificial Systems* The University of Michigan Press 1975 identified economics as one of the prime targets for a theory of adaptation as formalised in his reproductive plans later called Genetic Algorithms

Routledge Library Editions: Financial Markets Various, 2021-07-09 The volumes in this set originally published between 1970 and 1996 draw together research by leading academics in the area of economic and financial markets and provide a rigorous examination of related key issues The volumes examine the stock exchange capital cities as financial centres international capital the financial system bond duration security market indices and artificial intelligence applications on Wall Street whilst also exploring the general principles and practices of financial markets in various countries This set will be of particular interest to students of economics and finance respectively

*Information Sciences 2007 - Proceedings Of The 10th Joint Conference* Paul P

Wang, 2007-07-18 This proceeding contains the cutting edge research results in information science and technology and their related technology Recent scientific breakthroughs such as invisibility cloak and meta materials data mining techniques advanced game playing in artificial intelligence nano technology unlikely event probability and fuzzy logic reasoning are just a few outstanding examples Walter Freeman's 80th birthday celebration is another highlight of this proceedings because this major event is attended by many leading scientists from around the world Key speakers include Charles Falco Water Freeman Thomas Huang Meyya Meyyappan Lotfi Zadeh Bernette Bouchon Meunier Heather Carlson Ling Guan Etienne Kerre and John Mordès

**Applications of Evolutionary Computing** Mario Giacobini, 2008-03-14 This book constitutes the refereed joint proceedings of eight European workshops on the Theory and Applications of Evolutionary Computation

EvoWorkshops 2008 held in Naples Italy in March 2008 within the scope of the EvoStar 2008 event The 57 revised full papers and 18 revised short papers presented were carefully reviewed and selected from a total of 133 submissions In accordance with the eight workshops covered the papers are organized in topical sections on application of nature inspired techniques to telecommunication networks and other connected systems evolutionary computation in finance and economics bio inspired heuristics for design automation evolutionary computation in image analysis and signal processing evolutionary and biologically inspired music sound art and design bio inspired algorithms for continuous parameter optimization evolutionary algorithms in stochastic and dynamic environments theory and applications of evolutionary computation and on evolutionary computation in transportation and logistics

**Investment Strategies Optimization based on a SAX-GA Methodology** António M.L. Canelas,Rui F.M.F. Neves,Nuno Horta,2012-09-28 This book presents a new computational finance approach combining a Symbolic Aggregate approximation SAX technique with an optimization kernel based on genetic algorithms GA While the SAX representation is used to describe the financial time series the evolutionary optimization kernel is used in order to identify the most relevant patterns and generate investment rules The proposed approach considers several different chromosomes structures in order to achieve better results on the trading platform The methodology presented in this book has great potential on investment markets

**Artificial Life at Stanford, 1994** John R. Koza,1994

**Natural Computing in Computational Finance** Anthony Brabazon,Michael O'Neill,2009-01-30 Recent years have seen the widespread application of Natural Computing algorithms broadly defined in this context as computer algorithms whose design draws inspiration from phenomena in the natural world for the purposes of financial modelling and optimisation A related stream of work has also seen the application of learning mechanisms drawn from Natural Computing algorithms for the purposes of agent based modelling in finance and economics In this book we have collected a series of chapters which illustrate these two faces of Natural Computing The first part of the book illustrates how algorithms inspired by the natural world can be used as problem solvers to uncover and optimise financial models The second part of the book examines a number agent based simulations of financial systems This book follows on from Natural Computing in Computational Finance Volume 100 in Springer s Studies in Computational Intelligence series which in turn arose from the success of EvoFIN 2007 the very first European Workshop on Evolutionary Computation in Finance Economics held in Valencia Spain in April 2007

**Computational Science - ICCS 2008** Marian Bubak,Geert Dick van Albada,Jack Dongarra,Peter M.A. Sloot,2008-06-25 The three volume set LNCS 5101 5103 constitutes the refereed proceedings of the 8th International Conference on Computational Science ICCS 2008 held in Krakow Poland in June 2008 The 167 revised papers of the main conference track presented together with the abstracts of 7 keynote talks and the 100 revised papers from 14 workshops were carefully reviewed and selected for inclusion in the three volumes The main conference track was divided into approximately 20 parallel sessions addressing topics such as e science applications and systems scheduling and load

balancing software services and tools new hardware and its applications computer networks simulation of complex systems image processing and visualization optimization techniques numerical linear algebra and numerical algorithms The second volume contains workshop papers related to various computational research areas e g computer graphics and geometric modeling simulation of multiphysics multiscale systems computational chemistry and its applications computational finance and business intelligence physical biological and social networks geocomputation and teaching computational science The third volume is mostly related to computer science topics such as bioinformatics challenges to computer science tools for program development and analysis in computational science software engineering for large scale computing collaborative and cooperative environments applications of workflows in computational science as well as intelligent agents and evolvable systems

Risk, 1994 Managing risk in the world's financial markets *Decision Support Systems and Electronic Commerce*, 1999-11

**Artificial Intelligence in Finance & Investing** Robert R. Trippi, Jae K. Lee, 1996 In Artificial Intelligence in Finance and Investing authors Robert Trippi and Jae Lee explain this fascinating new technology in terms that portfolio managers institutional investors investment analysis and information systems professionals can understand Using real life examples and a practical approach this rare and readable volume discusses the entire field of artificial intelligence of relevance to investing so that readers can realize the benefits and evaluate the features of existing or proposed systems and ultimately construct their own systems Topics include using Expert Systems for Asset Allocation Timing Decisions Pattern Recognition and Risk Assessment overview of Popular Knowledge Based Systems construction of Synergistic Rule Bases for Securities Selection incorporating the Markowitz Portfolio Optimization Model into Knowledge Based Systems Bayesian Theory and Fuzzy Logic System Components Machine Learning in Portfolio Selection and Investment Timing including Pattern Based Learning and Genetic Algorithms and Neural Network Based Systems To illustrate the concepts presented in the book the authors conclude with a valuable practice session and analysis of a typical knowledge based system for investment management

**K FOLIO** For those who want to stay on the cutting edge of the application revolution Artificial Intelligence in Finance and Investing offers a pragmatic introduction to the use of knowledge based systems in securities selection and portfolio management

Intelligent Systems and Financial Forecasting Jason Kingdon, 1997-04-28 This book examines the design of an automated system for financial time series forecasting It explores the level of automation which can be achieved by a system for modelling a given financial time series with the minimum of human intervention It aims to help the reader understand the issues involved in setting neural network or genetic algorithm parameters and to develop methods to deal with the problems they raise in a practical manner Intelligent Systems and Financial Forecasting will provide invaluable reading material for academic and industrial researchers particularly those with an interest in the application of adaptive system technology information technology consultants applying adaptive system techniques and graduate postgraduate students in machine learning AI business modelling and finance

**Using Genetic Algorithms to**

**Develop Investment Strategies for the Malaysian Stock Market** Coulibaly Oumar Baba, 2007 Harvard Business School Core Collection Baker Library, 1999 *New Scientist and Science Journal*, 1994 An Evolutionary Computation Approach for Developing and Optimizing Discrete-time Forecasting and Classification Models Gregory A. Dorais, 1997

**Intelligent Engineering Systems Through Artificial Neural Networks** Cihan H. Dagli, 1995 As a follow up to the previous four volumes of Intelligent Engineering Systems Through Artificial Neural Networks by the same editor the present volume contains the edited versions of the technical presentations of ANNIE 95 held November 1995 in St Louis Missouri. The 160 some contributions are grouped into six categories: artificial neural network architectures including subsections on architectures and learning algorithms and training; fuzzy neural networks and systems; evolutionary programming; pattern recognition; adaptive control and smart engineering system design including bio medical engineering systems; signal processing; forecasting; environmental applications; machining and robotics; process control; monitoring and automated inspection and general engineering. Includes bandw photographs, diagrams and charts. Annotation copyright by Book News Inc Portland OR. Advanced Trading Rules Stephen Satchell, Emmanuel Acar, 1998 An overview of financial markets trading rules. It shows the financial market professional and student how to apply econometrics, computer modelling, technical and quantitative analysis to financial markets trading. Also explained in this text are technical indicators, neural networks, genetic algorithms, quantitative techniques and charts.

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