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Anthony Brabazon, Michael O'Neill



Biologically Inspired Algorithms For Financial Modelling Natural Computing Series:

Biologically Inspired Algorithms for Financial Modelling Anthony Brabazon, Michael O'Neill, 2006-03-28 Predicting the future for financial gain is a difficult sometimes profitable activity The focus of this book is the application of biologically inspired algorithms BIAs to financial modelling In a detailed introduction the authors explain computer trading on financial markets and the difficulties faced in financial market modelling Then Part I provides a thorough guide to the various bioinspired methodologies neural networks evolutionary computing particularly genetic algorithms and grammatical evolution particle swarm and ant colony optimization and immune systems Part II brings the reader through the development of market trading systems Finally Part III examines real world case studies where BIA methodologies are employed to construct trading systems in equity and foreign exchange markets and for the prediction of corporate bond ratings and corporate failures The book was written for those in the finance community who want to apply BIAs in financial modelling and for computer scientists who want an introduction to this growing application domain **Natural Computing in**

Computational Finance Anthony Brabazon, Michael O'Neill, 2009-03-13 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 **American Book Publishing Record**, 2005

1998 IEEE International Conference on Evolutionary Computation Proceedings IEEE Neural Networks Council, 1998 This collection of papers from the ICEC conference covers a wide range of aspects of evolutionary computing This includes principles of evolutionary computation such as adaptation and self adaption variation operators representational issues and theoretical investigations

Proceedings of the ... IEEE Conference on Evolutionary Computation, 1998 **IEEE International Conference on Evolutionary Computation**, 1998 **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

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Risk Assessment and Management in Pervasive Computing Varuna Godara, 2009-01-01 This book provides extensive information about pervasive computing its implications from operational legal and ethical perspective so that current and future pervasive service providers can make responsible decisions about where when and how to use this technology Provided by publisher

Dr. Dobb's Journal ,2006

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agent based modeling in modern computational finance Following an introductory chapter the book is organized into three sections The first section deals with optimization applications of natural computing demonstrating the application of a broad range of algorithms including genetic algorithms differential evolution evolution strategies quantum inspired evolutionary algorithms and bacterial foraging algorithms to multiple financial applications including portfolio optimization fund allocation and asset pricing The second section explores the use of natural computing methodologies such as genetic programming neural network hybrids and fuzzy evolutionary hybrids for model induction in order to construct market trading credit scoring and market prediction systems The final section illustrates a range of agent based applications including the modeling of payment card and financial markets Each chapter provides an introduction to the relevant natural computing methodology as well as providing a clear description of the financial application addressed The book was written to be accessible to a wide audience and should be of interest to practitioners academics and students in the fields of both natural computing and finance *Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen*

deutschsprachigen Veröffentlichungen, 2006 *Natural Computing in Computational Finance* Anthony Brabazon, Michael O'Neill, 2009-08-29 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 **Natural Computing in Computational Finance** Anthony

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FINANCIAL MODELING USING BIO-INSPIRED ALGORITHMS Trilok Nath

Pandey,2022-08-17 newlineThe basis for this research originally stemmed from my passion for developing better and efficient methods to predict the time series financial data As the world moves further into globalization and in this digital age generating vast amounts of financial data and born digital content there will be a greater need to access accurately the financial information about a country so that it will help in economic growth of that country Previously it is very difficult to get the parameters and technical indicators that affects the economy of a country In most of the research works the researchers have used technical indicators as the parameters to predict the stock index and exchange rate of any country These data are biased so they affect the prediction performance It has been observed from the analysis of global market that the exchange rate and stock index of any country depends on the major stock indices and exchange rates of developed countries Therefore we have designed datasets by considering major stock indices of the world and exchange rates of developed G 7 countries to predict the future values of stock index and exchange rate of another country In this research work we have experimentally concluded that we can use the major stock indices of the world and exchange rates of developed countries as predictors newlineMoreover from the deep analysis it has been observed that radial basis function neural networks are capable of universal approximation and are performing better than the other traditional prediction models for predicting the financial data However in many cases instance it is difficult to obtained the optimal parameters for the radial basis function neural network Therefore we have concentrated on designing and improving the efficiency of radial basis function neural networks by using bio inspired algorithms In this globalization era the economy of most of the country depends on the financial stability of other country The prediction of financial data can be done more accurately if we could use better algorithms for prediction purpose Researchers have suggested that neural networks based algorithms are performing better than traditional statistical algorithms and all most all the researchers are agreed that radial basis function network can be used as a universal approximator Therefore in our research work we have used radial basis function neural network as our prediction algorithm and then we have improved its performance by fine tuning the parameters of the radial basis function neural network by using bio inspired algorithm One of the most popular bio inspired algorithm is particle

newlinevii newlineswarm optimization algorithm It is widely used for solving optimization problems due to its simplicity and less number of parameters Hence we have considered canonical particle swarm optimization algorithm to fine tune the parameters of radial basis function neural network From the experimental results we have observed that the performance of particle swarm optimized radial basis function neural network is performing better than the traditional radial basis function neural network algorithm However in this approach we have selected the particles randomly and the initial weights are updated by using the random number generator function Further we have analyzed that chaotic functions have better statistical and dynamical behavior than the random number generator function which basically follows the normal distribution Therefore to improve the performance of the above model we have considered chaotic function instead of random number generator function to fine tune the inertia weights Finally based on the experimental results we have compared our proposed model with other models We have applied our proposed model to the three different areas in financial sector such as stock index prediction Dissertation Abstracts International ,2008 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,1999 Theses on any subject submitted by the academic libraries in the UK and Ireland
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