

Anthony Brabazon
Michael O'Neill (Eds.)

Natural Computing in Computational Finance

Volume 2



Springer

Natural Computing In Computational Finance Volume 2 Studies In Computational Intelligence

Wolfgang Guenther



Natural Computing In Computational Finance Volume 2 Studies In Computational Intelligence:

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 of agent based simulations of financial systems. This book follows on from *Natural Computing in Computational Finance Volume 1* 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 Brabazon, Michael O'Neill, Dietmar Maringer, 2011-09-10 This book follows on from *Natural Computing in Computational Finance Volumes I, II and III*. As in the previous volumes of this series the book consists of a series of chapters each of which was selected following a rigorous peer reviewed selection process. The chapters illustrate the application of a range of cutting edge natural computing and agent based methodologies in computational finance and economics. The applications explored include option model calibration, financial trend reversal detection, enhanced indexation, algorithmic trading, corporate payout determination and agent based modeling of liquidity costs and trade strategy adaptation. While describing cutting edge applications the chapters are written so that they are accessible to a wide audience. Hence they should be of interest to academics, students and practitioners in the fields of computational finance and economics which was selected following a rigorous peer reviewed selection process. The chapters illustrate the application of a range of cutting edge natural computing and agent based methodologies in computational finance and economics. The applications explored include option model calibration, financial trend reversal detection, enhanced indexation, algorithmic trading, corporate payout determination and agent based modeling of liquidity costs and trade strategy adaptation. While describing cutting edge applications the chapters are written so that they are accessible to a wide audience. Hence they should be of interest to academics, students and practitioners in the fields of computational finance and economics. The applications explored include option model calibration, financial trend reversal detection, enhanced indexation, algorithmic trading, corporate payout determination and agent based modeling of liquidity costs and trade strategy adaptation. While describing cutting edge applications the chapters are written so that they are accessible to a wide audience. Hence they should be of interest to academics, students and practitioners in the fields of computational finance and economics. written so that they are accessible to a wide audience. Hence they should be of interest to academics, students and

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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

Foundations of Computational Intelligence Volume 2 Aboul-Ella Hassanien, Ajith Abraham, Francisco Herrera, 2009-06-15 Foundations of Computational Intelligence Volume 2 Approximation Reasoning Theoretical Foundations and Applications Human reasoning usually is very approximate and involves various types of certainties Approximate reasoning is the computational modelling of any part of the process used by humans to reason about natural phenomena or to solve real world problems The scope of this book includes fuzzy sets Dempster Shafer theory multi valued logic probability random sets and rough set near set and hybrid intelligent systems Besides research articles and expository papers on theory and algorithms of approximation reasoning papers on numerical experiments and real world applications were also encouraged This Volume comprises of 12 chapters including an overview chapter providing an up to date and state of the research on the applications of Computational Intelligence techniques for approximation reasoning The Volume is divided into 2 parts Part I Approximate Reasoning Theoretical Foundations Part II Approximate Reasoning Success Stories and Real World Applications Part I on Approximate Reasoning Theoretical Foundations contains four chapters that describe several approaches of fuzzy and Para consistent annotated logic approximation reasoning In Chapter 1 Fuzzy Sets Near Sets and Rough Sets for Your Computational Intelligence Toolbox by Peters considers how a user might utilize fuzzy sets near sets and rough sets taken separately or taken together in hybridizations as part of a computational intelligence toolbox In multi criteria decision making it is necessary to aggregate combine utility values corresponding to several criteria parameters

Applications of Evolutionary Computation Antonio M. Mora, Giovanni Squillero, 2015-03-16 This book constitutes the refereed conference proceedings of the 18th International Conference on the Applications of Evolutionary Computation EvoApplications 2015 held in Copenhagen Spain in April 2015 colocated with the Evo 2015 events EuroGP EvoCOP and EvoMUSART The 72 revised full papers presented were carefully reviewed and selected from 125 submissions EvoApplications 2015 consisted of the following 13 tracks

EvoBIO evolutionary computation machine learning and data mining in computational biology EvoCOMNET nature inspired techniques for telecommunication networks and other parallel and distributed systems EvoCOMPLEX evolutionary algorithms and complex systems EvoENERGY evolutionary computation in energy applications EvoFIN evolutionary and natural computation in finance and economics EvoGAMES bio inspired algorithms in games EvoIASP evolutionary computation in image analysis signal processing and pattern recognition EvoINDUSTRY nature inspired techniques in industrial settings EvoNUM bio inspired algorithms for continuous parameter optimization EvoPAR parallel implementation of evolutionary algorithms EvoRISK computational intelligence for risk management security and defence applications EvoROBOT evolutionary computation in robotics and EvoSTOC evolutionary algorithms in stochastic and dynamic environments

Foundations of Computational Intelligence Volume 3 Ajith Abraham, Aboul-Ella Hassanien, Patrick Siarry, Andries Engelbrecht, 2009-04-27 Global optimization is a branch of applied mathematics and numerical analysis that deals with the task of finding the absolutely best set of admissible conditions to satisfy certain criteria objective function s formulated in mathematical terms Global optimization includes nonlinear stochastic and combinatorial programming multiobjective programming control games geometry approximation algorithms for parallel architectures and so on Due to its wide usage and applications it has gained the attention of researchers and practitioners from a plethora of scientific domains Typical practical examples of global optimization applications include Traveling salesman problem and electrical circuit design minimize the path length safety engineering building and mechanical structures mathematical problems Kepler conjecture Protein structure prediction minimize the energy function etc Global Optimization algorithms may be categorized into several types Deterministic example branch and bound methods Stochastic optimization example simulated annealing Heuristics and meta heuristics example evolutionary algorithms etc Recently there has been a growing interest in combining global and local search strategies to solve more complicated optimization problems This edited volume comprises 17 chapters including several overview Chapters which provides an up to date and state of the art research covering the theory and algorithms of global optimization Besides research articles and expository papers on theory and algorithms of global optimization papers on numerical experiments and on real world applications were also encouraged The book is divided into 2 main parts

Foundations of Computational Intelligence Ajith Abraham, Aboul-Ella Hassanien, André Ponce de Leon F. de Carvalho, 2009-04-21 Foundations of Computational Intelligence Volume 4 Bio Inspired Data Mining Theoretical Foundations and Applications Recent advances in the computing and electronics technology particularly in sensor devices databases and distributed systems are leading to an exponential growth in the amount of data stored in databases It has been estimated that this amount doubles every 20 years For some applications this increase is even steeper Databases storing DNA sequence for example are doubling their size every 10 months This growth is occurring in several applications areas besides bioinformatics like financial transactions government data environmental monitoring satellite and medical images

security data and web As large organizations recognize the high value of data stored in their databases and the importance of their data collection to support decision making there is a clear demand for sophisticated Data Mining tools Data mining tools play a key role in the extraction of useful knowledge from databases They can be used either to confirm a particular hypothesis or to automatically find patterns In the second case which is related to this book the goal may be either to describe the main patterns present in dataset what is known as descriptive Data Mining or to find patterns able to predict behaviour of specific attributes or features known as predictive Data Mining While the first goal is associated with tasks like clustering summarization and association the second is found in classification and regression problems

New Advances in Intelligent Decision Technologies Gloria Phillips-Wren, 2009-04-28 IDT Intelligent Decision Technologies seeks an interchange of research on intelligent systems and intelligent technologies which enhance or improve decision making in industry government and academia The focus is interdisciplinary in nature and includes research on all aspects of intelligent decision technologies from fundamental development to the applied system It constitutes a great honor and pleasure for us to publish the works and new research results of scholars from the First KES International Symposium on Intelligent Decision Technologies KES IDT 09 hosted and organized by University of Hyogo in conjunction with KES International Himeji Japan April 2009 The symposium was concerned with theory design development implementation testing and evaluation of intelligent decision systems Its topics included intelligent agents fuzzy logic multi agent systems artificial neural networks genetic algorithms expert systems intelligent decision making support systems information retrieval systems geographic information systems and knowledge management systems These technologies have the potential to support decision making in many areas of management international business finance accounting marketing healthcare military applications production networks traffic management crisis response and human interfaces

Enhancing Cognitive Assistance Systems with Inertial Measurement Units Wolfgang Guenther, 2008-05-27 1 1 Motivation Throughout the last decade major car manufacturers have introduced a great variety of different assistance systems to make driving safer and more comfortable Mechatronic systems like dynamic stability control situation dependent suspension adjustment or the recently introduced night vision cameras are just a few examples among a range of helpful developments The current focus of research is on cognitive assistance systems for high level perception of the environment Rather than present mere images to the driver these future systems extract all relevant information and provide a reduced set that alerts to possible dangers or in a further stage directly takes over control of the vehicle to prevent accidents These Steps Towards the Seeing Car were presented as a keynote speech at the Advanced Microsystems for Automotive Applications 2007 conference by Volkswagen 87 In addition to radar ultrasonic and laser sensors concepts include video cameras for the perception of the medium and far range Video will play an especially important role in future driver assistance since the traffic environment is designed for human needs and thus relies predominantly on visual cues For the visual assessment of the environment two aspects are crucial and will be covered

in this book First the vehicle has to know its own motion in space in order to reliably differentiate visual motion caused by other objects such as moving pedestrians from that of the static environment generated by the car's own movement Second the visual sensor needs to cover a wide range with high resolution and precision

Nature Inspired Cooperative Strategies for Optimization (NCSO 2011) David Alejandro Pelta, Natalio Krasnogor, Dan Dumitrescu, Camelia Chira, Rodica Lung, 2011-10-09 Biological and other natural processes have always been a source of inspiration for computer science and information technology Many emerging problem solving techniques integrate advanced evolution and cooperation strategies encompassing a range of spatio temporal scales for visionary conceptualization of evolutionary computation The previous editions of NCSO were held in Granada Spain 2006 Acireale Italy 2007 Tenerife Spain 2008 and again in Granada in 2010 NCSO evolved to be one of the most interesting and profiled workshops in nature inspired computing NCSO 2011 has offered an inspiring environment for debating the state of the art ideas and techniques in nature inspired cooperative strategies and a comprehensive image on recent applications of these ideas and techniques The topics covered by this volume include Swarm Intelligence such as Ant and Bee Colony Optimization Genetic Algorithms Multiagent Systems Coevolution and Cooperation strategies Adversarial Models Synergic Building Blocks Complex Networks Social Impact Models Evolutionary Design Self Organized Criticality Evolving Systems Cellular Automata Hybrid Algorithms and Membrane Computing P Systems

Reviewing **Natural Computing In Computational Finance Volume 2 Studies In Computational Intelligence:** Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Natural Computing In Computational Finance Volume 2 Studies In Computational Intelligence**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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