

Anthony Brabazon
Michael O'Neill (Eds.)

Natural Computing in Computational Finance

Volume 2



Natural Computing In Computational Finance Volume 2

Studies In Computational Intelligence

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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.

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Natural Computing in Computational Finance Anthony Brabazon, Michael O'Neill, Dietmar G. Maringer, 2010-06-09 The chapters in this book illustrate the application of a range of cutting edge natural computing and agent based methodologies in computational finance and economics. The eleven chapters were selected following a rigorous peer reviewed selection process.

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

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Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2009 **Natural Computing in Computational Finance** Anthony Brabazon, Michael O'Neill,Dietmar Maringer,2011-10-14 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 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 practitioners in the fields of computational finance and economics

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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 *Proceedings of the 2000 ASME Design Engineering Technical Conferences and Computers and Information in Engineering Conference: 20th Computers and Information in Engineering Conference Asme Conference Proceedings,2000* **Resources in Human-computer Interaction** ,1990

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