Prodromos E. Tsinaslanidis Achilleas D. Zapranis

Technical Analysis for Algorithmic Pattern Recognition



# **Technical Analysis Algorithmic Pattern Recognition**

Florin Cornel Dumiter, Florin Marius Turcaș

## **Technical Analysis Algorithmic Pattern Recognition:**

Technical Analysis for Algorithmic Pattern Recognition Prodromos E. Tsinaslanidis, Achilleas D.

Zapranis,2015-10-31 The main purpose of this book is to resolve deficiencies and limitations that currently exist when using Technical Analysis TA Particularly TA is being used either by academics as an economic test of the weak form Efficient Market Hypothesis EMH or by practitioners as a main or supplementary tool for deriving trading signals This book approaches TA in a systematic way utilizing all the available estimation theory and tests This is achieved through the developing of novel rule based pattern recognizers and the implementation of statistical tests for assessing the importance of realized returns More emphasis is given to technical patterns where subjectivity in their identification process is apparent Our proposed methodology is based on the algorithmic and thus unbiased pattern recognition The unified methodological framework presented in this book can serve as a benchmark for both future academic studies that test the null hypothesis of the weak form EMH and for practitioners that want to embed TA within their trading investment decision making processes

**Technical Analysis Applications** Florin Cornel Dumiter, Florin Marius Turcas, 2023-03-11 This book integrates technical analysis in the capital markets stock market theories valuation approaches portfolio theories company analysis In addition to deepening the overall inspection of technical analysis the book will challenge the corporate norm and offer alternative theories sometimes even contrary theories and explore related areas in the context of increasing investment efficiency Unlike other research in this area this approach does not consider technical analysis as an ultimate and absolute truth and recognizes that by studying all aspects of an interdisciplinary problem the chances of success increase substantially The book will be of specific interest to academics students and practitioners of financial markets Mathematical and Statistical Methods for Actuarial Sciences and Finance Marco Corazza, Pizzi Claudio, 2011-06-07 This book features selected papers from the international conference MAF 2008 that cover a wide variety of subjects in actuarial insurance and financial fields all treated in light of the successful cooperation between mathematics and statistics Stock Exchange Trading Using Grid Pattern Optimized by A Genetic Algorithm with Speciation Tiago Martins, Rui Neves, 2021-07-08 This book presents a genetic algorithm that optimizes a grid template pattern detector to find the best point to trade in the SP 500 The pattern detector is based on a template using a grid of weights with a fixed size The template takes in consideration not only the closing price but also the open high and low values of the price during the period under testing in contrast to the traditional methods of analysing only the closing price Each cell of the grid encompasses a score and these are optimized by an evolutionary genetic algorithm that takes genetic diversity into consideration through a speciation routine giving time for each individual of the population to be optimized within its own niche With this method the system is able to present better results and improves the results compared with other template approaches. The tests considered real data from the stock market and against state of the art solutions namely the ones using a grid of weights which does not have a fixed size and

non speciated approaches During the testing period the presented solution had a return of 21 3% compared to 10 9% of the existing approaches The use of speciation was able to increase the returns of some results as genetic diversity was taken into Advanced Trading Rules Emmanual Acar, Stephen Satchell, 2002-05-23 Advanced Trading Rules is the essential guide to state of the art techniques currently used by the very best financial traders analysts and fund managers The editors have brought together the world's leading professional and academic experts to explain how to understand develop and apply cutting edge trading rules and systems It is indispensable reading if you are involved in the derivatives fixed income foreign exchange and equities markets Advanced Trading Rules demonstrates how to apply econometrics computer modelling technical and quantitative analysis to generate superior returns showing how you can stay ahead of the curve by finding out why certain methods succeed or fail Profit from this book by understanding how to use stochastic properties of trading strategies technical indicators neural networks genetic algorithms quantitative techniques charts Financial markets professionals will discover a wealth of applicable ideas and methods to help them to improve their performance and profits Students and academics working in this area will also benefit from the rigorous and theoretically sound analysis of this dynamic and exciting area of finance. The essential guide to state of the art techniques currently used by the very best financial traders analysts and fund managers Provides a complete overview of cutting edge financial markets trading rules including new material on technical analysis and evaluation Demonstrates how to apply econometrics computer modeling technical and quantitative analysis to generate superior returns **Handbook of Artificial Intelligence for Music** Eduardo Reck Miranda, 2021-07-02 This book presents comprehensive coverage of the latest advances in research into enabling machines to listen to and compose new music It includes chapters introducing what we know about human musical intelligence and on how this knowledge can be simulated with AI The development of interactive musical robots and emerging new approaches to AI based musical creativity are also introduced including brain computer music interfaces bio processors and quantum computing Artificial Intelligence AI technology permeates the music industry from management systems for recording studios to recommendation systems for online commercialization of music through the Internet Yet whereas AI for online music distribution is well advanced this book focuses on a largely unexplored application AI for Identifying Patterns in Financial Markets João Leitão, Rui Ferreira Neves, Nuno creating the actual musical content C.G. Horta, 2017-12-26 This book describes a new pattern discovery approach based on the combination among rules between Perceptually Important Points PIPs and the Symbolic Aggregate approximation SAX representation optimized by Genetic Algorithm GA The proposed approach was tested with real data from S P500 index and all the results obtained outperform the Buy Hold strategy Three different case studies are presented by the authors *Multi-Objective Evolutionary* Algorithms for Knowledge Discovery from Databases Ashish Ghosh, Satchidananda Dehuri, Susmita Ghosh, 2008-03-19 The present volume provides a collection of seven articles containing new and high quality research results demonstrating the

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