

Erricos J. Kontoghiorghes
Berç Rustem · Peter Winker
Editors

Computational Methods in Financial Engineering



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Computational Methods In Financial Engineering Essays In Honour Of Manfred Gilli

Bernd Scherer, Kenneth Winston



Computational Methods In Financial Engineering Essays In Honour Of Manfred Gilli:

Computational Methods in Financial Engineering Erricos Kontoghiorghe, Berc Rustem, Peter Winker, 2008-02-26
Computational models and methods are central to the analysis of economic and financial decisions. Simulation and optimisation are widely used as tools of analysis, modelling and testing. The focus of this book is the development of computational methods and analytical models in financial engineering that rely on computation. The book contains eighteen chapters written by leading researchers in the area on portfolio optimization and option pricing estimation and classification, banking risk and macroeconomic modelling. It explores and brings together current research tools and will be of interest to researchers, analysts and practitioners in policy and investment decisions in economics and finance.

Numerical Methods and Optimization in Finance Manfred Gilli, Dietmar Maringer, Enrico Schumann, 2019-08-16
Computationally intensive tools play an increasingly important role in financial decisions. Many financial problems ranging from asset allocation to risk management and from option pricing to model calibration can be efficiently handled using modern computational techniques. *Numerical Methods and Optimization in Finance* presents such computational techniques with an emphasis on simulation and optimization, particularly so-called heuristics. This book treats quantitative analysis as an essentially computational discipline in which applications are put into software form and tested empirically. This revised edition includes two new chapters: a self-contained tutorial on implementing and using heuristics and an explanation of software used for testing portfolio selection models. Postgraduate students, researchers in programs on quantitative and computational finance and practitioners in banks and other financial companies can benefit from this second edition of *Numerical Methods and Optimization in Finance*. It introduces numerical methods to readers with economics backgrounds, emphasizes core simulation and optimization problems, includes MATLAB and R code for all applications with sample code in the text and freely available for download.

Natural Computing in Computational Finance Anthony Brabazon, Michael O'Neill, Dietmar G. Maringer, 2010-07-11
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.

Handbook of Computational Finance Jin-Chuan Duan, Wolfgang Karl Härdle, James E. Gentle, 2011-10-25
Any financial asset that is openly traded has a market price. Except for extreme market conditions, market price may be more or less than a fair value. Fair value is likely to be some complicated function of the current intrinsic value of tangible or intangible assets underlying the claim and our assessment of the characteristics of the underlying assets with respect to the expected rate of growth, future dividends, volatility and other relevant market factors. Some of these factors that affect the price can be measured at the time of a transaction with reasonably high accuracy. Most factors, however, relate to expectations about the future and to subjective issues such as current management, corporate policies and market environment that could affect the future financial performance of the underlying assets. Models are thus needed to describe

the stochastic factors and environment and their implementations inevitably require computational finance tools Robust Methods in Biostatistics Stephane Heritier, Eva Cantoni, Samuel Copt, Maria-Pia Victoria-Feser, 2009-05-11 Robust statistics is an extension of classical statistics that specifically takes into account the concept that the underlying models used to describe data are only approximate Its basic philosophy is to produce statistical procedures which are stable when the data do not exactly match the postulated models as it is the case for example with outliers Robust Methods in Biostatistics proposes robust alternatives to common methods used in statistics in general and in biostatistics in particular and illustrates their use on many biomedical datasets The methods introduced include robust estimation testing model selection model check and diagnostics They are developed for the following general classes of models Linear regression Generalized linear models Linear mixed models Marginal longitudinal data models Cox survival analysis model The methods are introduced both at a theoretical and applied level within the framework of each general class of models with a particular emphasis put on practical data analysis This book is of particular use for research students applied statisticians and practitioners in the health field interested in more stable statistical techniques An accompanying website provides R code for computing all of the methods described as well as for analyzing all the datasets used in the book **ARCH Models for Financial Applications**

Evdokia Xekalaki, Stavros Degiannakis, 2010-03-18 Autoregressive Conditional Heteroskedastic ARCH processes are used in finance to model asset price volatility over time This book introduces both the theory and applications of ARCH models and provides the basic theoretical and empirical background before proceeding to more advanced issues and applications The Authors provide coverage of the recent developments in ARCH modelling which can be implemented using econometric software model construction fitting and forecasting and model evaluation and selection Key Features Presents a comprehensive overview of both the theory and the practical applications of ARCH an increasingly popular financial modelling technique Assumes no prior knowledge of ARCH models the basics such as model construction are introduced before proceeding to more complex applications such as value at risk option pricing and model evaluation Uses empirical examples to demonstrate how the recent developments in ARCH can be implemented Provides step by step instructive examples using econometric software such as Econometric Views and the GARCH module for the Ox software package used in Estimating and Forecasting ARCH Models Accompanied by a CD ROM containing links to the software as well as the datasets used in the examples Aimed at readers wishing to gain an aptitude in the applications of financial econometric modelling with a focus on practical implementation via applications to real data and via examples worked with econometrics packages

The Oxford Handbook of Quantitative Asset Management Bernd Scherer, Kenneth Winston, 2012 This book explores the current state of the art in quantitative investment management across seven key areas Chapters by academics and practitioners working in leading investment management organizations bring together major theoretical and practical aspects of the field **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen**

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Methods in Financial Engineering Yingda Song,2013

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