

*Applied Computational
Economics and Finance*

*Mario J. Miranda
and Paul L. Fackler*

Applied Computational Economics And Finance

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Applied Computational Economics And Finance:

Applied Computational Economics and Finance Mario J. Miranda, Paul L. Fackler, 2002 An introduction to the use of computational methods to solve problems in economics and finance *Applied Computational Economics and Finance* Mario J. Miranda, Paul L. Fackler, 2004-08-20 This book presents a variety of computational methods used to solve dynamic problems in economics and finance It emphasizes practical numerical methods rather than mathematical proofs and focuses on techniques that apply directly to economic analyses The examples are drawn from a wide range of subspecialties of economics and finance with particular emphasis on problems in agricultural and resource economics macroeconomics and finance The book also provides an extensive Web site library of computer utilities and demonstration programs The book is divided into two parts The first part develops basic numerical methods including linear and nonlinear equation methods complementarity methods finite dimensional optimization numerical integration and differentiation and function approximation The second part presents methods for solving dynamic stochastic models in economics and finance including dynamic programming rational expectations and arbitrage pricing models in discrete and continuous time The book uses MATLAB to illustrate the algorithms and includes a utilities toolbox to help readers develop their own computational economics applications *Applied Computational Economics And Finance* Miranda & Fackler, 2010 *Handbook of Applied Computational Economics and Finance* Bladimir Baranauskas, 2013-04 Presenting a variety of computational methods used to solve dynamic problems in economics and finance this book emphasizes practical numerical methods rather than mathematical proofs and focuses on techniques that apply directly to economic analyses The examples are drawn from a wide range of subspecialties of economics and finance with particular emphasis on problems in agricultural and resource economics macroeconomics and finance **Business Economics and Finance with MATLAB, GIS, and Simulation Models** Patrick L. Anderson, 2004-07-27 This book takes recent theoretical advances in Finance and Economics and shows how they can be implemented in the real world It presents tactics for using mathematical and simulation models to solve complex tasks of forecasting income valuing businesses predicting retail sales and evaluating markets and tax and regulatory problems Busine *Computational Economics and Finance* Hal R. Varian, 1996-08-09 This book software package divulges the combined knowledge of a whole international community of Mathematica users from the fields of economics finance investments quantitative business and operations research The 23 contributors all experts in their fields take full advantage of the latest updates of Mathematica in their presentations and equip both current and prospective users with tools for professional research and educational projects The real world and self contained models provided are applicable to an extensive range of contemporary problems The DOS disk contains Notebooks and packages which are also available online from the TELOS site *Applied Computational Mathematics in Social Sciences* Romulus-Catalin Damaceanu, 2010 *Applied Computational Mathematics in Social Sciences* adopts a modern scientific approach that combines knowledge from

mathematical modeling with various aspects of social science Special algorithms can be created to simulate an artificial society and a detailed analysis can subsequently be used to project social realities This Ebook specifically deals with computations using the NetLogo platform and is intended for researchers interested in advanced human geography and mathematical modeling studies

Optimization in Economics and Finance Bruce D. Craven, Sardar M. N. Islam, 2005
 Extends the optimization techniques in a form that may be adopted for modeling social choice problems The models in this book provide possible models for a society's social choice for an allocation that maximizes welfare and utilization of resources A computer program SCOM is presented here for computing social choice models by optimal control

Applied Stochastic Models and Control for Finance and Insurance Charles S. Tapiero, 2012-12-06
 Applied Stochastic Models and Control for Finance and Insurance presents at an introductory level some essential stochastic models applied in economics finance and insurance Markov chains random walks stochastic differential equations and other stochastic processes are used throughout the book and systematically applied to economic and financial applications In addition a dynamic programming framework is used to deal with some basic optimization problems The book begins by introducing problems of economics finance and insurance which involve time uncertainty and risk A number of cases are treated in detail spanning risk management volatility memory the time structure of preferences interest rates and yields etc The second and third chapters provide an introduction to stochastic models and their application Stochastic differential equations and stochastic calculus are presented in an intuitive manner and numerous applications and exercises are used to facilitate their understanding and their use in Chapter 3 A number of other processes which are increasingly used in finance and insurance are introduced in Chapter 4 In the fifth chapter ARCH and GARCH models are presented and their application to modeling volatility is emphasized An outline of decision making procedures is presented in Chapter 6 Furthermore we also introduce the essentials of stochastic dynamic programming and control and provide first steps for the student who seeks to apply these techniques Finally in Chapter 7 numerical techniques and approximations to stochastic processes are examined This book can be used in business economics financial engineering and decision sciences schools for second year Master's students as well as in a number of courses widely given in departments of statistics systems and decision sciences

The ^AOxford Handbook of Computational Economics and Finance Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018-01-12
 This is an insightful survey of approaches to computational analysis of economics and finance

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