

# COMPUTATIONAL APPROACHES TO ECONOMIC PROBLEMS



ADVANCES IN  
COMPUTATIONAL  
ECONOMICS

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# Computational Approaches To Economic Problems

**G Orfield**



## **Computational Approaches To Economic Problems:**

Computational Approaches to Economic Problems Hans M. Amman, B. Rustem, Andrew B. Whinston, 2013-03-09 This volume contains a selection of papers presented at the first conference of the Society for Computational Economics held at ICC Institute Austin Texas May 21-24 1995. Twenty-two papers are included in this volume devoted to applications of computational methods for the empirical analysis of economic and financial systems, the development of computing methodology including software related to economics and finance, and the overall impact of developments in computing. The various contributions represented in the volume indicate the growing interest in the topic due to the increased availability of computational concepts and tools and the necessity of analyzing complex decision problems. The papers in this volume are divided into four sections: Computational methods in econometrics, Computational methods in finance, Computational methods for a social environment, and New computational methods. LIST *Computational Economic Systems* Manfred Gilli, 1996 A selection of 14 papers from a June 1994 meeting in Amsterdam illustrate the use of new computational methods and computing techniques to solve economic problems. The topics include investigating the evolution of behavior of economic agents, solving complex inventory models on a parallel computer, an original approach to constructing and solving multi-criteria models involving logical conditions, applying wavelets to outlier detection, new estimation algorithms, and solving nonlinear rational expectation models. Reproduced from typescripts. Annotation copyright by Book News Inc. Portland, OR.

*Advances in Economics and Econometrics* Econometric Society. World Congress, 2003-01-20 Sample Text

*Quantitative Economic Policy* Reinhard Neck, Christian Richter, Peter Mooslechner, 2008-03-04 Econometric techniques and models are still being extensively used in the business of forecasting and policy advice. This book presents recent advances in the theory and applications of quantitative economic policy with particular emphasis on fiscal and monetary policies in a European and global context. The volume honors Andrew Hughes Hallett, a pioneer and major scientist in quantitative economic policy analysis whose contributors are among his friends and former students. **Numerical**

**Methods in Economics** Kenneth L. Judd, 2023-04-04 To harness the full power of computer technology, economists need to use a broad range of mathematical techniques. In this book, Kenneth Judd presents techniques from the numerical analysis and applied mathematics literatures and shows how to use them in economic analyses. The book is divided into five parts. Part I provides a general introduction. Part II presents basics from numerical analysis on  $\mathbb{R}^n$ , including linear equations, iterative methods, optimization, nonlinear equations, approximation methods, numerical integration, and differentiation, and Monte Carlo methods. Part III covers methods for dynamic problems, including finite difference methods, projection methods, and numerical dynamic programming. Part IV covers perturbation and asymptotic solution methods. Finally, Part V covers applications to dynamic equilibrium analysis, including solution methods for perfect foresight models and rational expectation models. A website contains supplementary material, including programs and answers to exercises. **Computational Economics**

Oscar Afonso, Paulo B. Vasconcelos, 2015-08-27 *Computational Economics* A concise introduction is a comprehensive textbook designed to help students move from the traditional and comparative static analysis of economic models to a modern and dynamic computational study. The ability to equate an economic problem to formulate it into a mathematical model and to solve it computationally is becoming a crucial and distinctive competence for most economists. This vital textbook is organized around static and dynamic models covering both macro and microeconomic topics, exploring the numerical techniques required to solve those models. A key aim of the book is to enable students to develop the ability to modify the models themselves so that using the MATLAB Octave codes provided on the book and on the website, students can demonstrate a complete understanding of computational methods. This textbook is innovative, easy to read, and highly focused, providing students of economics with the skills needed to understand the essentials of using numerical methods to solve economic problems. It also provides more technical readers with an easy way to cope with economics through modelling and simulation. Later in the book, more elaborate economic models and advanced numerical methods are introduced, which will prove valuable to those in more advanced study. This book is ideal for all students of economics, mathematics, computer science, and engineering taking classes on Computational or Numerical Economics. **Agent-based Approaches in**

**Economic and Social Complex Systems** Akira Namatame, Takao Terano, Koichi Kurumatani, 2002 **Adaptive Bidding in Single-Sided Auctions under Uncertainty** Clemens van Dinther, 2007-01-10 In the last years, electronic markets, especially online auctions, have become very popular and received more and more attention in both business B2B as well as in public practice B2C and C2C. Science, however, is still far from having studied all phenomena and effects which can be observed on electronic markets. Apart from theoretic analysis, other approaches are necessary to evaluate and understand market effects. This book shows that and how software agents can be used to simulate bidding behaviour in electronic auctions. The main emphasis of this book is to apply computational economics to market theory. It summarizes the most common and up-to-date agent-based simulation methods and tools and develops the simulation software AMASE. On basis of the introduced methods, a model is established to simulate bidding behaviour under uncertainty. The book addresses researchers, computer scientists, economists, and students who are interested in applying agent-based computational methods to electronic markets. It helps to learn more about simulations in economics in general and common agent-based methods and tools in particular. The reader finds basic definitions and learns how to build an appropriate model for the posed research question. It is the first time that quantitative results are presented for the problem of valuation uncertainty. These results significantly contribute to existing research in computational economics and supplements interesting research aspects. [Mathematical Reviews](#), 2001

**Working Papers Series**, 2002 *Artificial Intelligence, Learning and Computation in Economics and Finance*

Ragupathy Venkatachalam, 2023-02-15 This book presents frontier research on the use of computational methods to model complex interactions in economics and finance. Artificial Intelligence, Machine Learning, and simulations offer effective means

of analyzing and learning from large as well as new types of data These computational tools have permeated various subfields of economics finance and also across different schools of economic thought Through 16 chapters written by pioneers in economics finance computer science psychology complexity and statistics econometrics the book introduces their original research and presents the findings they have yielded Theoretical and empirical studies featured in this book draw on a variety of approaches such as agent based modeling numerical simulations computable economics as well as employing tools from artificial intelligence and machine learning algorithms The use of computational approaches to perform counterfactual thought experiments are also introduced which help transcend the limits posed by traditional mathematical and statistical tools The book also includes discussions on methodology epistemology history and issues concerning prediction validation and inference all of which have become pertinent with the increasing use of computational approaches in economic analysis

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*Journal of Economic Dynamics & Control* ,2002 **Nonlinear Methods in Economic Dynamics and Optimal Control** ,1992 *Economic Report Series* ,1974\* **Stanford Bulletin** ,2006 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994 **Index of Conference Proceedings** British Library. Document Supply Centre,1999 **Statistical Surveillance** David Bock,2004 This is a Ph D dissertation Statistical surveillance is used to repeatedly evaluate the amount of information contained in observations which are achieved continuously This makes it possible to quickly and safely detect changes in the way economic and financial time series evolve through time Thus the optimal time for decisions can be determined The thesis treats systems for early warnings of turns in economic processes In papers I II it is demonstrated how such systems can be used to predict the turning points of the general business cycle by detecting turns in leading indicators In papers III IV some strategies for timely transactions in the financial market are analyzed by means of the theory of statistical surveillance **Directory of Published Proceedings** ,2004

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