

NEW DIRECTIONS IN COMPUTATIONAL ECONOMICS

ADVANCES IN
COMPUTATIONAL
ECONOMICS

WILLIAM W. COOPER
AND
ANDREW B. WHINSTON
{EDITORS}

New Directions In Computational Economics

Manfred Gilli



New Directions In Computational Economics:

New Directions in Computational Economics William W. Cooper, Andrew B. Whinston, 2012-12-06 New Directions in Computational Economics brings together for the first time a diverse selection of papers sharing the underlying theme of application of computing technology as a tool for achieving solutions to realistic problems in computational economics and related areas in the environmental ecological and energy fields Part I of the volume addresses experimental and computational issues in auction mechanisms including a survey of recent results for sealed bid auctions The second contribution uses neural networks as the basis for estimating bid functions for first price sealed bid auctions Also presented is the smart market computational mechanism which better matches bids and offers for natural gas Part II consists of papers that formulate and solve models of economics systems Amman and Kendrick's paper deals with control models and the computational difficulties that result from nonconvexities Using goal programming Nagurney Thore and Pan formulate spatial resource allocation models to analyze various policy issues Thompson and Thrall next present a rigorous mathematical analysis of the relationship between efficiency and profitability The problem of matching uncertain streams of assets and liabilities is solved using stochastic optimization techniques in the following paper in this section Finally Part III applies economic concepts to issues in computer science in addition to using computational techniques to solve economic models

New Directions in Statistical Physics Luc T. Wille, 2013-03-09 Statistical physics addresses the study and understanding of systems with many degrees of freedom As such it has a rich and varied history with applications to thermodynamics magnetic phase transitions and order disorder transformations to name just a few However the tools of statistical physics can be profitably used to investigate any system with a large number of components Thus recent years have seen these methods applied in many unexpected directions three of which are the main focus of this volume These applications have been remarkably successful and have enriched the financial biological and engineering literature Although reported in the physics literature the results tend to be scattered and the underlying unity of the field overlooked This book provides a unique insight into the latest breakthroughs in a consistent manner at a level accessible to undergraduates yet with enough attention to the theory and computation to satisfy the professional researcher

Handbook of Computational Economics Leigh Tesfatsion, Kenneth L. Judd, 2006-05-15 The explosive growth in computational power over the past several decades offers new tools and opportunities for economists This handbook volume surveys recent research on Agent based Computational Economics ACE the computational study of economic processes modeled as dynamic systems of interacting agents Empirical referents for agents in ACE models can range from individuals or social groups with learning capabilities to physical world features with no cognitive function Topics covered include learning empirical validation network economics social dynamics financial markets innovation and technological change organizations market design automated markets and trading agents political economy social ecological systems computational laboratory development and general

methodological issues Every volume contains contributions from leading researchers Each Handbook presents an accurate self contained survey of a particular topic The series provides comprehensive and accessible surveys

Computational Economics Shu-Heng Chen,L. C. Jain,Chung-Ching Tai,2006-01-01 This book identifies the economic as well as financial problems that may be solved efficiently with computational methods and explains why those problems should best be solved with computational methods Provided by publisher

New Directions in Political Science Colin Hay,2010-03-04 Written by a team of leading scholars this new text focuses on a range of key challenges posed by developments in 21st century politics to provide a state of the art assessment of current thinking and future directions in Political Science and International Relations

Computational Economics Gerald L. Thompson,1996

New Directions for Computing Education Samuel B. Fee,Amanda M. Holland-Minkley,Thomas E. Lombardi,2017-04-17 Why should every student take a computing course What should be the content of these courses How should they be taught and by whom This book addresses these questions by identifying the broader reaches of computing education problem solving and critical thinking as a general approach to learning The book discusses new approaches to computing education and considers whether the modern ubiquity of computing requires an educational approach that is inherently interdisciplinary and distinct from the traditional computer science perspective The alternative approach that the authors advocate derives its mission from an intent to embed itself within an interdisciplinary arts and science context An interdisciplinary approach to computing is compellingly valuable for students and educational institutions alike Its goal is to support the educational and intellectual needs of students with interests in the entire range of academic disciplines It capitalizes on students focus on career development and employers demand for technical while also engaging a diverse student body that may not possess a pre existing interest in computing for computing s sake This approach makes directly evident the applicability of computer science topics to real world interdisciplinary problems beyond computing and recognizes that technical and computational abilities are essential within every discipline The book offers a valuable resource for computer science and computing education instructors who are presently re thinking their curricula and pedagogical approaches and are actively trying new methods in the classroom It will also benefit graduate students considering a future of teaching in the field as well as administrators in both higher education and high schools interested in becoming conversant in the discourse surrounding the future of computing education

Computational Economic Systems Manfred Gilli,2013-03-09 The approach to many problems in economic analysis has changed drastically with the development and dissemination of new and more efficient computational techniques

Computational Economic Systems Models Methods Econometrics presents a selection of papers illustrating the use of new computational methods and computing techniques to solve economic problems Part I of the volume consists of papers which focus on modelling economic systems presenting computational methods to investigate the evolution of behavior of economic agents techniques to solve complex inventory models on a parallel computer and an original approach for the construction

and solution of multicriteria models involving logical conditions Contributions to Part II concern new computational approaches to economic problems We find an application of wavelets to outlier detection New estimation algorithms are presented one concerning seemingly related regression models a second one on nonlinear rational expectation models and a third one dealing with switching GARCH estimation Three contributions contain original approaches for the solution of nonlinear rational expectation models Nonlinear Time Series Analysis of Economic and Financial Data Philip Rothman,2012-12-06 Nonlinear Time Series Analysis of Economic and Financial Data provides an examination of the flourishing interest that has developed in this area over the past decade The constant theme throughout this work is that standard linear time series tools leave unexamined and unexploited economically significant features in frequently used data sets The book comprises original contributions written by specialists in the field and offers a combination of both applied and methodological papers It will be useful to both seasoned veterans of nonlinear time series analysis and those searching for an informative panoramic look at front line developments in the area **New Directions for Understanding Systemic Risk** National Research Council,Division on Engineering and Physical Sciences,Board on Mathematical Sciences and Their Applications,2008-01-17 The stability of the financial system and the potential for systemic events to alter its function have long been critical issues for central bankers and researchers Recent events suggest that older models of systemic shocks might no longer capture all of the possible paths of such disturbances or account for the increasing complexity of the financial system To help assess these concerns the Federal Reserve Bank of New York and the NRC cosponsored a conference that brought together engineers scientists economists and financial market experts to promote better understanding of systemic risk in a variety of fields The book presents an examination of tools used in ecology and engineering to study systemic collapse in those areas a review of current trends in economic research on systemic risk the payments system and the market of interbank funds and for context descriptions of how systemic risk in the financial system affects trading activities

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