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Cooperative Game Theory and Its Application to Natural Environmental and Water Resource Issues: 2. Application to Natural and Environmental Resources - Stefano Zara, Fioravante Patrone, Ariel Dinar

Antitrust Law - Keith N. Hylton 2003-03-27
Preface p. xi 1 Economics p. 1 I. Definitions p. 1 II. Perfect Competition Versus Monopoly p. 9 III. Further Topics p. 21 2 Law and Policy p. 27 I. Some Interpretation Issues p. 28 II. Enacting the Antitrust Law p. 30 III. What Should Antitrust Law Aim to Do? p. 40 3 Enforcement p. 43 I. Optimal Enforcement Theory p. 43 II. Enforcement Provision of the Antitrust Laws p. 47 Appendix p. 64 4 Cartels p. 68 I. Cartels p. 68 II. Conscious Parallelism p. 73 III. Conclusion p. 89 5 Development of Section 1 Doctrine p. 90 I. The Sherman Act Versus the Common Law p. 90 II. Rule of Reason and Per-Se Rule p. 104 III. Conclusion p. 112 6 Rule of Reason and Per-Se Rule p. 113 I. The Case for Price Fixing p. 113 II. Per-Se and Rule of Reason Analysis: Further Developments p. 116 III. Per-Se Versus Rule of Reason Tests: Understanding the Supreme Court's Justification for the Per-Se Rule p. 129 7 Agreement p. 132 I. The Development of Inference Doctrine p. 133 II. Rejection of Unilateral Contract Theory p. 140 8 Facilitating Mechanisms p. 144 I. Data Dissemination Cases p. 145 II. Basing Point Pricing and Related Practices p. 154 III. Basing Point Pricing: Economics p. 160 9 Boycotts p. 166 I. Pre-Socony p. 166 II. Post-Socony p. 170 III. Post-BMI/Sylvania p. 181 IV. Conclusion p. 184 10 Monopolization p. 186 I. Development of Section 2 Doctrine p. 186 II. Leveraging and Essential Facility Cases p. 202 III. Predatory Pricing p. 212 IV. Conclusion p. 228 11 Power p. 230 I. Measuring Market Power p. 230 II. Determinants of Market Power p. 235 III. Substitutability and the Relevant Market: Cellophane p. 237 IV. Multimarket Monopoly and the Relevant Market: Alcoa p. 239 V. Measuring Power: Guidelines p. 243 12 Attempts p. 244 I. The Swift Formula and Modern Doctrine p. 244 II. Dangerous Probability Requirement p. 248 13 Vertical Restraints p. 252 I. Resale Price Maintenance p. 252 II. Vertical Nonprice Restraints p. 262 III. Manufacturer Retains Title p. 267 IV. Agreement p. 270 14 Tying and Exclusive Dealing p. 279 I. Introduction p. 279 II. Early Cases p. 284 III. Development of Per-Se Rule p. 286 IV. Tension Between Rule of Reason Arguments and Per-Se Rule p. 295 V. Technological Tying p. 301 VI. Exclusive Dealing p. 303 Appendix p. 307 15 Horizontal Mergers p. 311 I. Reasons for Merging and Implications for Law p. 311 II. Horizontal Merger Law p. 317 III. Conclusion p. 330 Appendix p. 330 16 Mergers, Vertical and Conglomerate p. 333 I. Vertical Mergers p. 333 II. Conglomerate Mergers p. 344 III. Concluding Remarks p. 351 17 Antitrust and the State p. 352 I. Noerr-Pennington Doctrine p. 354 II. Parker Doctrine p. 371 III. Some Final Comments: Error Costs and Immunity Doctrines p. 375 Index p. 379.

Game Theory Applications in Network Design - Kim, Sungwook 2014-05-31
The use of game theoretic techniques is playing an increasingly important role in the network design domain. Understanding the background, concepts, and principles in using game theory approaches is necessary for engineers in network design. Game Theory Applications in Network Design provides the basic idea of game theory and the fundamental understanding of game theoretic interactions among network entities. The material in this book also covers recent advances and open issues, offering game theoretic solutions for specific network design issues. This publication will benefit students, educators, research strategists, scientists, researchers, and engineers in the field of network design.

Essential Tools for Water Resources Analysis, Planning, and Management - Omid Bozorg-Haddad 2021-05-25
This book describes concepts and tools needed for water resources management, including methods for modeling, simulation, optimization, big data analysis, data mining, remote sensing, geographical information

system, game theory, conflict resolution, System dynamics, agent-based models, multiobjective, multicriteria, and multiattribute decision making and risk and uncertainty analysis, for better and sustainable management of water resources and consumption, thus mitigating the present and future global water shortage crisis. It presents the applications of these tools through case studies which demonstrate its benefits of proper management of water resources systems. This book acts as a reference for students, professors, industrial practitioners, and stakeholders in the field of water resources and hydrology.

The Routledge Companion to Public-Private Partnerships - Piet de Vries 2013-03-05
A public-private partnership (PPP) is a contractual arrangement with appropriate risk sharing between public and private partners for the delivery of public infrastructure or services, which is intended to create value-for-money to the taxpayer. The Routledge Companion to Public-Private Partnerships provides a cutting-edge survey of the field. PPPs remain a highly controversial subject matter globally and this comprehensive and authoritative volume provides a terrific compendium of information for students and scholars charged with understanding, critiquing and advancing this model. With sections devoted to legal aspects, institutional economics perspectives, finance and accountability - the editors draw together an impressive range of contributors from around the world.

Game Theory Solutions for the Internet of Things: Emerging Research and Opportunities - Kim, Sungwook 2017-01-06
There is an enhanced level of connectivity available in modern society through the increased usage of various technological devices. Such developments have led to the integration of smart objects into the Internet of Things (IoT), an emerging paradigm in the digital age. Game Theory Solutions for the Internet of Things: Emerging Research and Opportunities examines the latest strategies for the management of IoT systems and the application of theoretical models to enhance real-world applications and improve system efficiency. Highlighting innovative algorithms and methods, as well as coverage on cloud computing, cross-domain applications, and energy control, this book is a pivotal source of information for researchers, practitioners, graduate students, professionals, and academics interested in the game theoretic solutions for IoT applications.

Policy, Management and Finance of Public-Private Partnerships - Akintola Akintoye 2009-01-26
This book examines some of the key policy, financial and managerialaspects of public-private partnerships within the context of theglobal spread of this form of procurement. The chapters investigate political and institutional issuessurrounding PPPs, together with the financial and managerialstrategies employed by the private sector. Adopting across-disciplinary perspective, the book highlights the oftenpolitically sensitive nature of these projects and identifies aneed for the private sector to investigate a broad set ofparameters which relate to the particular political economy ofindividual partnerships. Policy, Finance & Management for Public-Private Partnershipscovers a range of specific issues, including: partnerships indeveloping countries; innovation in partnership-based procurement;government and business interaction; institutional andorganisational approaches to facilitating partnership; project andcorporate financing; risk and value management; market analysis,modelling and forecasting; capital structure decisions andmanagement; investment theory and practice; pricing and costevaluation; statutory regulations and their financial implications;option pricing; financial monitoring; syndicate funding; new rolesfor the financial and insurance sectors; institutional andmultilateral funding; payment mechanisms; concession perioddetermination; risk analysis and management; whole life valuemethodology; cost comparators and best value; team building, teamwork and skill development. Contributions from Australia, Europe, the Far East, South

Africaand the United States together present the current thinking andstate-of-the-art approaches to public-private partnerships.

Developing Strategic Business Models and Competitive Advantage in the Digital Sector - Daidj, Nabyla 2014-09-30
Rapid technological advancements have the ability to positively or negatively impact corporate growth and success. Professional leaders and decision makers must consider such advancements when designing and implementing new policies in preparation for the sustainable future of the business environment. Developing Strategic Business Models and Competitive Advantage in the Digital Sector focuses on the application of preemptive planning in the media and entertainment industries to combat an increasingly uncertain future of innovation and competition. With research-based examples and analysis, this book is an essential reference source for academicians, researchers, and professionals interested in learning more about the impact of technology on industry success, including the changes and challenges created by the Internet and electronic media.

Debating Rationality Jennifer J. Halpern 2018-10-18
Decision makers strive to be rational. Traditionally, rational decisions maximize an appropriate return. The contributors to this book challenge the common assumption that good decisions must be rational in this economic sense. They emphasize that the decision-making process is influenced by social, organizational, and psychological considerations as well as by economic concerns. Relationships, time pressure, external demands for specific types of performance, contractual expectations, human biases, and reactions to unfair treatment alter the decision-making context and the resulting decision outcomes.

Game Theory - Steven Tadelis 2013-01-10
The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with a concise description of rational decision making, and goes on to discuss strategic and extensive form games with complete information, Bayesian games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that focus on how to formalize informal situations and then analyze them. Introduces the core ideas and applications of game theory Covers static and dynamic games, with complete and incomplete information Features a variety of examples, applications, and exercises Topics include repeated games, bargaining, auctions, signaling, reputation, and information transmission Ideal for advanced undergraduate and beginning graduate students Complete solutions available to teachers and selected solutions available to students

Game Theory for Political Scientists - James D. Morrow 2020-05-05
Game theory is the mathematical analysis of strategic interaction. In the fifty years since the appearance of von Neumann and Morgenstern's classic Theory of Games and Economic Behavior (Princeton, 1944), game theory has been widely applied to problems in economics. Until recently, however, its usefulness in political science has been underappreciated, in part because of the technical difficulty of the methods developed by economists. James Morrow's book is the first to provide a standard text adapting contemporary game theory to political analysis. It uses a minimum of mathematics to teach the essentials of game theory and contains problems and their solutions suitable for advanced undergraduate and graduate students in all branches of political science. Morrow begins with classical utility and game theory and ends with current research on repeated games and games of incomplete information. The book focuses on noncooperative game theory and its application to international relations, political economy, and American and comparative politics. Special attention is given to models of four topics: bargaining, legislative voting rules, voting in mass elections, and deterrence. An appendix reviews relevant mathematical techniques. Brief bibliographic essays at the end of each chapter suggest further readings, graded according to difficulty. This rigorous but accessible introduction

to game theory will be of use not only to political scientists but also to psychologists, sociologists, and others in the social sciences.

Game Theory - E. N. Barron 2013-04-09
An exciting new edition of the popular introduction to game theory and its applications The thoroughly expanded Second Edition presents a unique, hands-on approach to game theory. While most books on the subject are too abstract or too basic for mathematicians, Game Theory: An Introduction, Second Edition offers a blend of theory and applications, allowing readers to use theory and software to create and analyze real-world decision-making models. With a rigorous, yet accessible, treatment of mathematics, the book focuses on results that can be used to determine optimal game strategies. Game Theory: An Introduction, Second Edition demonstrates how to use modern software, such as MapleTM, Mathematica®, and Gambit, to create, analyze, and implement effective decision-making models. Coverage includes the main aspects of game theory including the fundamentals of two-person zero-sum games, cooperative games, and population games as well as a large number of examples from various fields, such as economics, transportation, warfare, asset distribution, political science, and biology. The Second Edition features: • A new chapter on extensive games, which greatly expands the implementation of available models • New sections on correlated equilibria and exact formulas for three-player cooperative games • Many updated topics including threats in bargaining games and evolutionary stable strategies • Solutions and methods used to solve all odd-numbered problems • A companion website containing the related Maple and Mathematica data sets and code A trusted and proven guide for students of mathematics and economics, Game Theory: An Introduction, Second Edition is also an excellent resource for researchers and practitioners in economics, finance, engineering, operations research, statistics, and computer science.

Discrete-Time Stochastic Control and Dynamic Potential Games David González-Sánchez 2013-09-20
There are several techniques to study noncooperative dynamic games, such as dynamic programming and the maximum principle (also called the Lagrange method). It turns out, however, that one way to characterize dynamic potential games requires to analyze inverse optimal control problems, and it is here where the Euler equation approach comes in because it is particularly well–suited to solve inverse problems. Despite the importance of dynamic potential games, there is no systematic study about them. This monograph is the first attempt to provide a systematic, self–contained presentation of stochastic dynamic potential games.

Game Theory - Hans Peters 2015-06-04
This textbook presents the basics of game theory both on an undergraduate level and on a more advanced mathematical level. It is the second, revised version of the successful 2008 edition. The book covers most topics of interest in game theory, including cooperative game theory. Part I presents introductions to all these topics on a basic yet formally precise level. It includes chapters on repeated games, social choice theory, and selected topics such as bargaining theory, exchange economies, and matching. Part II goes deeper into noncooperative theory and treats the theory of zerosum games, refinements of Nash equilibrium in strategic as well as extensive form games, and evolutionary games. Part III covers basic concepts in the theory of transferable utility games, such as core and balancedness, Shapley value and variations, and nucleolus. Some mathematical tools on duality and convexity are collected in Part IV. Every chapter in the book contains a problem section. Hints, answers and solutions are included.

Control and Game-Theoretic Models of the Environment Jerzy Filar 2012-12-06
This book collects some recent works on the application of dynamic game and control theory to the analysis of environmental problems. This collection of papers is not the outcome of a conference or of a workshop. It is rather the result of a careful screening from among a number of contributions that we have solicited across the world. In particular, we have been able to attract the work of some of the most prominent scholars in the field of dynamic analyses of the environment. Engineers, mathematicians and economists provide their views and analytical tools to better interpret the interactions between economic and environmental phenomena, thus achieving, through this interdisciplinary effort, new and interesting results. The goal of the book is more normative than descriptive. All papers include careful modelling of the dynamics of the main variables involved in the game between nature and economic agents and among economic agents themselves, as well-described in Vrieze's introductory chapter. Furthermore, all papers use this careful

modelling framework to provide policy prescriptions to the public agencies authorized to regulate emission dy namics. Several diverse problems are addressed: from global issues, such as the greenhouse effect or deforestation, to international ones, such as the management of fisheries, to local ones, for example, the control of effluent discharges. Moreover, pollution problems are not the only concern of this book.

An Introduction To Game-theoretic Modelling - Michael Mesterton Gibbons 1991-12-15

An Introduction to Game-Theoretic Modelling: Third Edition - Mike Mesterton-Gibbons 2019-07-05
This book introduces game theory and its applications from an applied mathematician's perspective, systematically developing tools and concepts for game-theoretic modelling in the life and social sciences. Filled with down-to-earth examples of strategic behavior in humans and other animals, the book presents a unified account of the central ideas of both classical and evolutionary game theory. Unlike many books on game theory, which focus on mathematical and recreational aspects of the subject, this book emphasizes using games to answer questions of current scientific interest. In the present third edition, the author has added substantial new material on evolutionarily stable strategies and their use in behavioral ecology. The only prerequisites are calculus and some exposure to matrix algebra, probability, and differential equations.

Global Governance - Lisa Martin 2017-03-02
As economic, social and environmental connections among states have grown stronger and denser in the last decades, new levels and types of governance have emerged. The process of globalization, while not entirely new, has created new challenges for policymakers attempting to reap its benefits and manage its effects. This volume pulls together work on global governance that examines these challenges and looks at the patterns of governance that emerge. The work is organized into six sections. The first introduces concepts crucial to the analysis of global governance, including representation, efficiency, and hierarchy. The next two sections turn to specific patterns of governance in two realms, security and economic affairs respectively. The fourth section examines legal dimensions of governance. The fifth section concentrates on the impact of global governance on domestic politics, while the sixth looks at how concepts of norms and legitimacy structure our understanding of governance. Overall, this collection reveals a rich scholarly understanding of globalization, governance, and institutions that builds on deep theoretical roots while shedding light on major policy issues.

Of Literature and Knowledge - Peter Swirski 2007-02-12
"Of Literature and Knowledge looks ... like an important advance in this new and very important subject... literature is about to become even more interesting." – Edward O. Wilson, Pellegrino University Professor, Harvard University. Framed by the theory of evolution, this colourful and engaging volume presents a new understanding of the mechanisms by which we transfer information from narrative make-believe to real life. Ranging across game theory and philosophy of science, as well as poetics and aesthetics, Peter Swirski explains how literary fictions perform as a systematic tool of enquiry, driven by thought experiments. Crucially, he argues for a continuum between the cognitive tools employed by scientists, philosophers and scholars or writers of fiction. The result is a provocative study of our talent and propensity for creating imaginary worlds, different from the world we know yet invaluable to our understanding of it. Of Literature and Knowledge is a noteworthy challenge to contemporary critical theory, arguing that by bridging the gap between literature and science we might not only reinvigorate literary studies but, above all, further our understanding of literature.

Game Theory for Applied Economists Robert Gibbons 1992-07-13
This book introduces one of the most powerful tools of modern economics to a wide audience: those who will later construct or consume game-theoretic models. Robert Gibbons addresses scholars in applied fields within economics who want a serious and thorough discussion of game theory but who may have found other works overly abstract. Gibbons emphasizes the economic applications of the theory at least as much as the pure theory itself; formal arguments about abstract games play a minor role. The applications illustrate the process of model building--of translating an informal description of a multi-person decision situation into a formal game-theoretic problem to be analyzed. Also, the variety of applications shows that similar issues arise in different areas of economics, and that the same game-theoretic tools can be applied in each setting. In order to emphasize the broad potential scope of the theory, conventional applications from industrial organization have been largely replaced by applications from labor, macro, and other applied

fields in economics. The book covers four classes of games, and four corresponding notions of equilibrium: static games of complete information and Nash equilibrium, dynamic games of complete information and subgame-perfect Nash equilibrium, static games of incomplete information and Bayesian Nash equilibrium, and dynamic games of incomplete information and perfect Bayesian equilibrium.

Handbook of Discrete and Combinatorial Mathematics - Kenneth H. Rosen 1999-09-28
The importance of discrete and combinatorial mathematics continues to increase as the range of applications to computer science, electrical engineering, and the biological sciences grows dramatically. Providing a ready reference for practitioners in the field, the Handbook of Discrete and Combinatorial Mathematics, Second Edition presents additional material on Google's matrix, random graphs, geometric graphs, computational topology, and other key topics. New chapters highlight essential background information on bioinformatics and computational geometry. Each chapter includes a glossary, definitions, facts, examples, algorithms, major applications, and references.

Mathematical Principles of the Internet, Two Volume Set - Nirdosh Bhatnagar 2019-03-18
This two-volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering. The books do not aim to provide all of the mathematical foundations upon which the Internet is based. Instead, these cover only a partial panorama and the key principles. Volume 1 explores Internet engineering, while the supporting mathematics is covered in Volume 2. The chapters on mathematics complement those on the engineering episodes, and an effort has been made to make this work succinct, yet self-contained. Elements of information theory, algebraic coding theory, cryptography, Internet traffic, dynamics and control of Internet congestion, and queueing theory are discussed. In addition, stochastic networks, graph-theoretic algorithms, application of game theory to the Internet, Internet economics, data mining and knowledge discovery, and quantum computation, communication, and cryptography are also discussed. In order to study the structure and function of the Internet, only a basic knowledge of number theory, abstract algebra, matrices and determinants, graph theory, geometry, analysis, optimization theory, probability theory, and stochastic processes, is required. These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering.

Handbook on Securing Cyber-Physical Critical Infrastructure Sajal K Das 2012-01-31
Introduction: Securing Cyber-Physical Infrastructures--An Overview Part 1: Theoretical Foundations of Security Chapter 1: Security and Vulnerability of Cyber-Physical Infrastructure Networks: A Control-Theoretic Approach Chapter 2: Game Theory for Infrastructure Security -- The Power of Intent-Based Adversary Models Chapter 3: An Analytical Framework for Cyber-Physical Networks Chapter 4: Evolution of Widely Spreading Worms and Countermeasures : Epidemic Theory and Application Part 2: Security for Wireless Mobile Networks Chapter 5: Mobile Wireless Network Security Chapter 6: Robust Wireless Infrastructure against Jamming Attacks Chapter 7: Security for Mobile Ad Hoc Networks Chapter 8: Defending against Identity-Based Attacks in Wireless Networks Part 3: Security for Sensor Networks Chapter 9: Efficient and Distributed Access Control for Sensor Networks Chapter 10: Defending against Physical Attacks in Wireless Sensor Networks Chapter 11: Node Compromise Detection in Wireless Sensor N ...

Decision Making Using Game Theory Anthony Kelly 2003-03-27
Game theory is a key element in most decision-making processes involving two or more people or organisations. This book explains how game theory can predict the outcome of complex decision-making processes, and how it can help you to improve your own negotiation and decision-making skills. It is grounded in well-established theory, yet the wide-ranging international examples used to illustrate its application offer a fresh approach to an essential weapon in the armoury of the informed manager. The book is accessibly written, explaining in simple terms the underlying mathematics behind games of skill, before moving on to more sophisticated topics such as zero-sum games, mixed-motive games, and multi-person games, coalitions and power. Clear examples and helpful diagrams are used throughout, and the mathematics is kept to a minimum. It is written for managers, students and decision makers in any field.

Industrial Organization - Don E. Waldman 2019-03-04
Industrial Organization: Theory and Practice blends a rigorous

theoretical introduction to industrial organization with empirical data, real-world applications and case studies. The book also supports students with a range of problems and exercises, and definitions of key terms and concepts. This balanced approach, which enables students to apply theoretical tools, has earned this book its ranking as one of the leading undergraduate texts in its field. For the fifth edition, relevant data, tables, empirical examples and case studies have been updated to reflect current trends and topics, in the most complete reorganization since the second edition. Further changes include: all public policy topics have been placed in the last section, making it simpler to use for courses that emphasize theory or public policy; an entirely new chapter on international trade and industrial organization; a new chapter on mergers; a separate section on antitrust; a companion website with PowerPoint slides and other supplements. This comprehensive book bridges the gap between economic theory and real-world case studies in an accessible, logical manner, making it the ideal undergraduate text for courses on industrial organization.

A Course in Game Theory - Martin J. Osborne 1994-07-12
A Course in Game Theory presents the main ideas of game theory at a level suitable for graduate students and advanced undergraduates, emphasizing the theory's foundations and interpretations of its basic concepts. The authors provide precise definitions and full proofs of results, sacrificing generalities and limiting the scope of the material in order to do so. The text is organized in four parts: strategic games, extensive games with perfect information, extensive games with imperfect information, and coalitional games. It includes over 100 exercises.

An Introduction to Game-theoretic Modelling - Mike Mesterton-Gibbons 1992
The emphasis of this book is on self-discovery. In a unified manner, the book deals with the central concepts of both classical and evolutionary game theory. It includes chapters on Nash equilibrium and other solution concepts for noncooperative games; on evolutionary stability and other criteria for equilibrium selection; on cooperative games in strategic form; and on the prisoner's dilemma and the rationality of cooperation. The key ideas are illustrated throughout by well-chosen examples of both human and non-human behavior. Examples include car pooling, motorists at a crossroad, store managers fixing prices, sex allocation, spiders competing for web sites, and insects foraging for oviposition sites. There are numerous exercises, many with solutions.

An Introduction to Game-theoretic Modelling - Mike Mesterton-Gibbons 2001
This is an introduction to game theory and applications with an emphasis on self-discovery from the perspective of a mathematical modeller. The book deals in a unified manner with the central concepts of both classical and evolutionary game theory. The key ideas are illustrated throughout by a wide variety of well-chosen examples of both human and non-human behavior, including car pooling, price fixing, food sharing, sex allocation and competition for territories or oviposition sites. There are numerous exercises with solutions.

Cyber Warfare - Sushil Jajodia 2015-04-09
This book features a wide spectrum of the latest computer science research relating to cyber warfare, including military and policy dimensions. It is the first book to explore the scientific foundation of cyber warfare and features research from the areas of artificial intelligence, game theory, programming languages, graph theory and more. The high-level approach and emphasis on scientific rigor provides insights on ways to improve cyber warfare defense worldwide. Cyber Warfare: Building the Scientific Foundation targets researchers and practitioners working in cyber security, especially government employees or contractors. Advanced-level students in computer science and electrical engineering with an interest in security will also find this content valuable as a secondary textbook or reference.

Wireless Algorithms, Systems, and Applications - Gopal Pandurangan 2010-08-19
Annotation This book constitutes the refereed proceedings of the 5th AnnualInternational Conference on Wireless Algorithms, Systems, andApplications, WASA 2010, held in Beijing, China, in August 2010. The 19 revised full papers and 10 revised short papers presentedtogether with 18 papers from 4 workshops were carefully reviewed andselected from numerous submissions. The papers are organized in topicasections on topology control and coverage, theoretical foundations, energy-aware algorithms and protocol design, wireless sensor networksand applications, applications and experimentation, scheduling andchannel assignment, coding, information theory and security, security ofwireless

and ad-hoc networks, data management and network control inwireless networks, radar and sonar sensor networks, as well ascompressive sensing for communications and networking.

Game Theory and the Law - Douglas G. Baird 1998
Game Theory and the Law promises to be the definitive guide to the field. It provides a highly sophisticated yet exceptionally clear explanation of game theory, with a host of applications to legal issues. The authors have not only synthesized the existing scholarship, but also created the foundation for the next generation of research in law and economics."

Game Theory - Drew Fudenberg 1991-08-29
This advanced text introduces the principles of noncooperative game theory in a direct and uncomplicated style that will acquaint students with the broad spectrum of the field while highlighting and explaining what they need to know at any given point. This advanced text introduces the principles of noncooperative game theory—including strategic form games, Nash equilibria, subgame perfection, repeated games, and games of incomplete information—in a direct and uncomplicated style that will acquaint students with the broad spectrum of the field while highlighting and explaining what they need to know at any given point. The analytic material is accompanied by many applications, examples, and exercises. The theory of noncooperative games studies the behavior of agents in any situation where each agent's optimal choice may depend on a forecast of the opponents' choices. "Noncooperative" refers to choices that are based on the participant's perceived selfinterest. Although game theory has been applied to many fields, Fudenberg and Tirole focus on the kinds of game theory that have been most useful in the study of economic problems. They also include some applications to political science. The fourteen chapters are grouped in parts that cover static games of complete information, dynamic games of complete information, static games of incomplete information, dynamic games of incomplete information, and advanced topics.

Operations Research: Applications and Algorithms - Wayne L. Winston 2022-01-12
The market-leading textbook for the course, Winston's OPERATIONS RESEARCH owes much of its success to its practical orientation and consistent emphasis on model formulation and model building. It moves beyond a mere study of algorithms without sacrificing the rigor that faculty desire. As in every edition, Winston reinforces the book's successful features and coverage with the most recent developments in the field. The Student Suite CD-ROM, which now accompanies every new copy of the text, contains the latest versions of commercial software for optimization, simulation, and decision analysis. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Remote Sensing in Vessel Detection and Navigation - Henning Heiselberg 2020-12-11
The Special Issue entitled "Remote Sensing in Vessel Detection and Navigation" comprises 15 articles on many topics related to remote sensing with navigational sensors. The sequence of articles included in this Special Issue is in line with the latest scientific trends. The latest developments in science, including artificial intelligence, were used. It can be said that navigation and vessel detection remain important and hot topics, and a lot of work will continue to be done worldwide. New techniques and methods for analyzing and extracting information from navigational sensors and data have been proposed and verified. Some of these will spark further research, and some are already mature and can be considered for industrial implementation and development.

21st Century Economics: A Reference Handbook - Rhona C. Free 2010-05-14
Interest in economics is at an all-time high. Among the challenges facing the nation is an economy with rapidly rising unemployment, failures of major businesses and industries, and continued dependence on oil with its wildly fluctuating price. Economists have dealt with such questions for generations, but they have taken on new meaning and significance. Tackling these questions and encompassing analysis of traditional economic theory and topics as well as those that economists have only more recently addressed, 21st Century Economics: A Reference Handbook is a must-have reference resource. Key Features Provides highly readable summaries of theory and models in key areas of micro and macroeconomics, helpful for students trying to get a "big picture" sense of the field Includes introductions to relevant theory as well as empirical evidence, useful for readers interested in learning about economic analysis of an issue as well for students embarking on research projects Features chapters focused on cutting-edge topics with appeal

for economists seeking to learn about extensions of analysis into new areas as well as new approaches Presents models in graphical format and summarizes empirical evidence in ways that do not require much background in statistics or econometrics, so as to maximize accessibility to students

Introducing Game Theory and its Applications - Elliott Mendelson 2016-02-03

The mathematical study of games is an intriguing endeavor with implications and applications that reach far beyond tic-tac-toe, chess, and poker to economics, business, and even biology and politics. Most texts on the subject, however, are written at the graduate level for those with strong mathematics, economics, or business backgrounds. In

Game Theory for Applied Economists - Robert Gibbons 1992-08-02

This book introduces one of the most powerful tools of modern economics to a wide audience: those who will later construct or consume game-theoretic models. Robert Gibbons addresses scholars in applied fields within economics who want a serious and thorough discussion of game theory but who may have found other works overly abstract. Gibbons emphasizes the economic applications of the theory at least as much as the pure theory itself; formal arguments about abstract games play a minor role. The applications illustrate the process of model building--of translating an informal description of a multi-person decision situation into a formal game-theoretic problem to be analyzed. Also, the variety of applications shows that similar issues arise in different areas of economics, and that the same game-theoretic tools can be applied in each setting. In order to emphasize the broad potential scope of the theory, conventional applications from industrial organization have been largely replaced by applications from labor, macro, and other applied fields in economics. The book covers four classes of games, and four corresponding notions of equilibrium: static games of complete information and Nash equilibrium, dynamic games of complete information and subgame-perfect Nash equilibrium, static games of incomplete information and Bayesian Nash equilibrium, and dynamic games of incomplete information and perfect Bayesian equilibrium.

Bending the Law of Unintended Consequences - Richard M. Adler 2020-02-10

This title provides managers, executives and other professionals with an innovative method for critical decision-making. The book explains the reasons for decision failures using the Law of Unintended Consequences.

This account draws on the work of sociologist Robert K. Merton, psychologists Amos Tversky and Daniel Kahneman, and economist Herbert Simon to identify two primary causes: cognitive biases and bounded rationality. It introduces an innovative method for "test driving" decisions that addresses both causes by combining scenario planning and "what-if" simulations. This method enables professionals to learn safely from virtual mistakes rather than real ones. It also provides four sample test drives of realistic critical decisions as well as two instructional videos to illustrate this new method. This book provides leaders and their support teams with important new tools for analyzing and refining complex decisions that are critical to organizational well-being and survival.

Game Theory and Its Applications - Akio Matsumoto 2015-09-08

This book integrates the fundamentals, methodology, and major application fields of noncooperative and cooperative games including conflict resolution. The topics addressed in the book are discrete and continuous games including games represented by finite trees; matrix and bimatrix games as well as oligopolies; cooperative solution concepts; games under uncertainty; dynamic games and conflict resolution. The methodology is illustrated by carefully chosen examples, applications and case studies which are selected from economics, social sciences, engineering, the military and homeland security. This book is highly recommended to readers who are interested in the in-depth and up-to-date integration of the theory and ever-expanding application areas of game theory.

Fisheries Economics, Volume II - Lee G. Anderson 2020-01-16

This title was first published in 2002: This important collection of international research on fisheries economics offers a comprehensive source of contemporary research on key topics in the field, as well as presenting the history of how the economic theory of fisheries exploitation has developed. Bringing into focus a wide range of inquiry, this second volume concentrates on extensions, analysis of management agencies and applications. Individual papers examine fundamental issues including, multispecies models, international utilization and recreational fisheries. Fisheries Economics is an invaluable research reference collection for the libraries of academic and other professional economists, as well as an indispensable resource for those studying across the fields of natural resources, fisheries economics and particularly fisheries management.