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RICHARDSON MORSE

Game-theoretic Models and Reasoning Springer Science & Business Media

The new second edition of this forward-thinking text goes beyond the discussion of health disparities to highlight the importance of health equity. As the title suggests, Health Equity, Diversity and Inclusion: Contexts, Controversies, and Solutions helps the reader understand key social justice issues relevant to health disparities and/or health equity, taking the reader from the classroom to the real world to implement new solutions. The new Second Edition features: • Two new chapters: one on the impact of urban education on urban health and another covering the elderly and health equity • Updated and enhanced coverage on men's health, demographic data, the importance of cultural proficiency, maternal mortality and Black women, and much more. • Current trends and movements, including the role of social media in the provision of health care information for improved health literacy; mass incarceration and criminal justice reform; and much more.

The Evolution of the Book CRC Press

Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

Complex Network Analysis in Python Cambridge University Press

Networks, Crowds, and Markets Reasoning About a Highly Connected World Cambridge University Press

What Money Can't Buy Cambridge University Press

This book explores links and synergies between international trade and two of the most urgent challenges of the 21st century: achieving sustainable energy (i.e., energy that is affordable, secure, and clean) and mitigating climate change. It takes the unique approach of not only examining how international trade can help achieve energy and climate goals, but also the impact of emerging tools and technologies such as smart grids and demand response, and the potential role and impact of citizens and prosumers. The book analyzes energy- and trade-related regulations in a range of jurisdictions to assess how conducive the regulation is towards achieving sustainable energy, and identifies gaps and overlaps in the existing legal framework.

Competition Policy Routledge

A fascinating deep dive on innovation from the New York Times bestselling author of *How We Got To Now* and *Unexpected Life* The printing press, the pencil, the flush toilet, the battery—these are all great ideas. But where do they come from? What kind of environment breeds them? What sparks the flash of brilliance? How do we generate the breakthrough technologies that push forward our lives, our society, our culture? Steven Johnson's answers are revelatory as he identifies the seven key patterns behind genuine innovation, and traces them across time and disciplines. From Darwin and Freud to the halls of Google and Apple, Johnson investigates the innovation hubs throughout modern time and pulls out the approaches and commonalities that seem to appear at moments of originality.

Symmetry Springer Science & Business Media

August 6, 2009 Author, Jon Kleinberg, was recently cited in the New York Times for his statistical analysis research in the Internet age. Algorithm Design introduces algorithms by looking at the real-

world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science.

Networks, Crowds, and Markets Springer

Should we pay children to read books or to get good grades? Should we allow corporations to pay for the right to pollute the atmosphere? Is it ethical to pay people to test risky new drugs or to donate their organs? What about hiring mercenaries to fight our wars? Auctioning admission to elite universities? Selling citizenship to immigrants willing to pay? In *What Money Can't Buy*, Michael J. Sandel takes on one of the biggest ethical questions of our time: Is there something wrong with a world in which everything is for sale? If so, how can we prevent market values from reaching into spheres of life where they don't belong? What are the moral limits of markets? In recent decades, market values have crowded out nonmarket norms in almost every aspect of life—medicine, education, government, law, art, sports, even family life and personal relations. Without quite realizing it, Sandel argues, we have drifted from having a market economy to being a market society. Is this where we want to be? In his New York Times bestseller *Justice*, Sandel showed himself to be a master at illuminating, with clarity and verve, the hard moral questions we confront in our everyday lives. Now, in *What Money Can't Buy*, he provokes an essential discussion that we, in our market-driven age, need to have: What is the proper role of markets in a democratic society—and how can we protect the moral and civic goods that markets don't honor and that money can't buy?

How Social Networks Can Make Us Smarter Jones & Bartlett Learning

Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

Molecular Marketing. Market Leadership Creative Modeling IGI Global

Revolutionary ideas on how to use markets to bring about fairness and prosperity for all Many blame today's economic inequality, stagnation, and political instability on the free market. The solution is to rein in the market, right? Radical Markets turns this thinking—and pretty much all conventional thinking about markets, both for and against—on its head. The book reveals bold new ways to organize markets for the good of everyone. It shows how the emancipatory force of genuinely open, free, and competitive markets can reawaken the dormant nineteenth-century spirit of liberal reform and lead to greater equality, prosperity, and cooperation. Eric Posner and Glen Weyl demonstrate why private property is inherently monopolistic, and how we would all be better off if private ownership were converted into a public auction for public benefit. They show how the principle of one person, one vote inhibits democracy, suggesting instead an ingenious way for voters to effectively influence the issues that matter most to them. They argue that every citizen of a host country should benefit from immigration—not just migrants and their capitalist employers. They propose leveraging antitrust laws to liberate markets from the grip of institutional investors and creating a data labor movement to force digital monopolies to compensate people for their electronic data. Only by radically expanding the scope of markets can we reduce inequality, restore robust economic growth, and resolve political conflicts. But to do that, we must replace our most sacred institutions with truly free and open competition—Radical Markets shows how.

22nd International Conference, COCOON 2016, Ho Chi Minh City, Vietnam, August 2-4, 2016, Proceedings Penguin

This textbook is perfect for a math course for non-math majors, with the goal of encouraging effective analytical thinking and exposing students to elegant mathematical ideas. It includes many topics commonly found in sampler courses, like Platonic solids, Euler's formula, irrational numbers, countable sets, permutations, and a proof of the Pythagorean Theorem. All of these topics serve a single compelling goal: understanding the mathematical patterns underlying the symmetry that we observe in the physical world around us. The exposition is engaging, precise and rigorous. The theorems are visually motivated with intuitive proofs appropriate for the intended audience. Students from all majors will enjoy the many beautiful topics herein, and will come to better appreciate the powerful cumulative nature of mathematics as these topics are woven together into a single fascinating story about the ways in which objects can be symmetric.

Networks, Crowds, and Markets Reasoning About a Highly Connected World

Over the past decade there has been a growing public fascination with the complex connectedness of modern society. This connectedness is found in many incarnations: in the rapid growth of the Internet, in the ease with which global communication takes place, and in the ability of news and information as well as epidemics and financial crises to spread with surprising speed and intensity. These are phenomena that involve networks, incentives, and the aggregate behavior of groups of people; they are based on the links that connect us and the ways in which our decisions can have subtle consequences for others. This introductory undergraduate textbook takes an interdisciplinary look at economics, sociology, computing and information science, and applied mathematics to understand networks and behavior. It describes the emerging field of study that is growing at the interface of these areas, addressing fundamental questions about how the social, economic, and technological worlds are connected.

Markets without Limits Springer Nature

Written by high performance computing (HPC) experts, Introduction to High Performance Computing for Scientists and Engineers provides a solid introduction to current mainstream computer architecture, dominant parallel programming models, and useful optimization strategies for scientific HPC. From working in a scientific computing center, the author

Solutions for Sustainability Springer Nature

A graduate-level, mathematically rigorous introduction to strategic behavior in a networked world. This introductory graduate-level text uses tools from game theory and graph theory to examine the role of network structures and network effects in economic and information markets. The goal is for students to develop an intuitive and mathematically rigorous understanding of how strategic agents interact in a connected world. The text synthesizes some of the central results in the field while also simplifying their treatment to make them more accessible to nonexperts. Thus, students at the introductory level will gain an understanding of key ideas in the field that are usually only taught at the advanced graduate level. The book introduces basic concepts from game theory and graph theory as well as some fundamental algorithms for exploring graphs. These tools are then applied to analyze strategic interactions over social networks, to explore different types of markets and mechanisms for networks, and to study the role of beliefs and higher-level beliefs (beliefs about beliefs). Specific topics discussed include coordination and contagion on social networks, traffic networks, matchings and matching markets, exchange networks, auctions, voting, web search, models of belief and knowledge, and how beliefs affect auctions and markets. An appendix offers a "Primer on Probability." Mathematically rigorous, the text assumes a level of mathematical maturity (comfort with definitions and proofs) in the reader.

Reasoning about a Highly Connected World Farrar, Straus and Giroux

Much of our thinking is flawed because it is based on faulty intuition. By using the framework and tools of probability and statistics, we can overcome this to provide solutions to many real-world problems and paradoxes. We show how to do this, and find answers that are frequently very contrary to what we might expect. Along the way, we venture into diverse realms and thought experiments which challenge the way that we see the world. Features: An insightful and engaging discussion of some of the key ideas of probabilistic and statistical thinking Many classic and novel problems, paradoxes, and puzzles An exploration of some of the big questions involving the use of choice and reason in an uncertain world The application of probability, statistics, and Bayesian methods to a wide range of subjects, including economics, finance, law, and medicine Exercises, references, and links for those wishing to cross-reference or to probe further Solutions to exercises at the end of the book This book should serve as an invaluable and fascinating resource for university, college, and high school students who wish to extend their reading, as well as for teachers and lecturers who want to liven up their courses while retaining academic rigour. It will also appeal to anyone who wishes to develop skills with numbers or has an interest in the many statistical and other paradoxes that permeate our lives. Indeed, anyone studying the sciences, social sciences, or humanities on a formal or informal basis will enjoy and benefit from this book.

A Mathematical Exploration Cambridge University Press

Construct, analyze, and visualize networks with networkx, a Python language module. Network analysis is a powerful tool you can apply to a multitude of datasets and situations. Discover how to work with all kinds of networks, including social, product, temporal, spatial, and semantic networks. Convert almost any real-world data into a complex network--such as recommendations on co-using

cosmetic products, muddy hedge fund connections, and online friendships. Analyze and visualize the network, and make business decisions based on your analysis. If you're a curious Python programmer, a data scientist, or a CNA specialist interested in mechanizing mundane tasks, you'll increase your productivity exponentially. Complex network analysis used to be done by hand or with non-programmable network analysis tools, but not anymore! You can now automate and program these tasks in Python. Complex networks are collections of connected items, words, concepts, or people. By exploring their structure and individual elements, we can learn about their meaning, evolution, and resilience. Starting with simple networks, convert real-life and synthetic network graphs into networkx data structures. Look at more sophisticated networks and learn more powerful machinery to handle centrality calculation, blockmodeling, and clique and community detection. Get familiar with presentation-quality network visualization tools, both programmable and interactive--such as Gephi, a CNA explorer. Adapt the patterns from the case studies to your problems. Explore big networks with NetworKit, a high-performance networkx substitute. Each part in the book gives you an overview of a class of networks, includes a practical study of networkx functions and techniques, and concludes with case studies from various fields, including social networking, anthropology, marketing, and sports analytics. Combine your CNA and Python programming skills to become a better network analyst, a more accomplished data scientist, and a more versatile programmer. What You Need: You will need a Python 3.x installation with the following additional modules: Pandas (>=0.18), NumPy (>=1.10), matplotlib (>=1.5), networkx (>=1.11), python-louvain (>=0.5), NetworKit (>=3.6), and generalizesimilarity. We recommend using the Anaconda distribution that comes with all these modules, except for python-louvain, NetworKit, and generalizesimilarity, and works on all major modern operating systems.

The Moral Limits of Markets CINNAM

Discover how graph databases can help you manage and query highly connected data. With this practical book, you'll learn how to design and implement a graph database that brings the power of graphs to bear on a broad range of problem domains. Whether you want to speed up your response to user queries or build a database that can adapt as your business evolves, this book shows you how to apply the schema-free graph model to real-world problems. Learn how different organizations are using graph databases to outperform their competitors. With this book's data modeling, query, and code examples, you'll quickly be able to implement your own solution. Model data with the Cypher query language and property graph model Learn best practices and common pitfalls when modeling with graphs Plan and implement a graph database solution in test-driven fashion Explore real-world examples to learn how and why organizations use a graph database Understand common patterns and components of graph database architecture Use analytical techniques and algorithms to mine graph database information

The Aesthetics and Politics of the Online Self Princeton University Press

May you sell your vote? May you sell your kidney? May gay men pay surrogates to bear them children? May spouses pay each other to watch the kids, do the dishes, or have sex? Should we allow the rich to genetically engineer gifted, beautiful children? Should we allow betting markets on terrorist attacks and natural disasters? Most people shudder at the thought. To put some goods and services for sale offends human dignity. If everything is commodified, then nothing is sacred. The market corrodes our character. Or so most people say. In Markets without Limits, Jason Brennan and Peter Jaworski give markets a fair hearing. The market does not introduce wrongness where there was not any previously. Thus, the authors claim, the question of what rightfully may be bought and sold has a simple answer: if you may do it for free, you may do it for money. Contrary to the conservative consensus, they claim there are no inherent limits to what can be bought and sold, but only restrictions on how we buy and sell.

Complex Networks Penguin

This book describes the new generation of discrete choice methods, focusing on the many advances that are made possible by simulation. Researchers use these statistical methods to examine the choices that consumers, households, firms, and other agents make. Each of the major models is covered: logit, generalized extreme value, or GEV (including nested and cross-nested logits), probit, and mixed logit, plus a variety of specifications that build on these basics. Simulation-assisted estimation procedures are investigated and compared, including maximum simulated likelihood, method of simulated moments, and method of simulated scores. Procedures for drawing from densities are described, including variance reduction techniques such as anithetics and Halton draws. Recent advances in Bayesian procedures are explored, including the use of the Metropolis-Hastings algorithm and its variant Gibbs sampling. The second edition adds chapters on endogeneity and expectation-maximization (EM) algorithms. No other book incorporates all these fields, which have arisen in the past 25 years. The procedures are applicable in many fields, including energy, transportation, environmental studies, health, labor, and marketing.

Machine, Platform, Crowd: Harnessing Our Digital Future Cambridge University Press

A practical introduction to network science for students across business, cognitive science, neuroscience, sociology, biology, engineering and other disciplines.

Recognize - Construct - Visualize - Analyze - Interpret Anchor

Illustrated throughout in full colour, this pioneering text is the only book you need for an introduction to network science.

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