

CAUSALITY: MODELS, REASONING, AND INFERENCE

by Judea Pearl

Cambridge University Press, 2000

REVIEWED BY
LELAND GERSON NEUBERG
Boston University

This book seeks to integrate research on cause and effect inference from cognitive science, econometrics, epidemiology, philosophy, and statistics. It puts forward the work of its author, his collaborators, and others over the past two decades as a new account of cause and effect inference that can aid practical researchers in many fields, including econometrics. Pearl adheres to several propositions on cause and effect inference. Though cause and effect relations are fundamentally deterministic (he explicitly excludes quantum mechanical phenomena from his concept of cause and effect), cause and effect analysis involves probability language. Probability language helps to convey uncertainty about cause and effect relations but is insufficient to fully express those relations. In addition to conditional probabilities of events, cause and effect analysis requires graphs or diagrams and a language that distinguishes intervention or manipulation from observation. Cause and effect analysis also requires counterfactual reasoning and causal assumptions in addition to observations and statistical assumptions.

Chapter 1 sketches some of the ingredients of the new approach to cause and effect inference: probability theory, graphs, Bayesian causal networks, causal models, and causal and statistical terminology. Chapter 2 builds the elements of Chapter 1 into a theory of inferred causation. Chapter 3 focuses on causal diagrams and identifying causal effects. Chapter 4 studies intervention or manipulation and direct causal effects. Chapter 5 considers causality and structural equation models. Chapter 6 examines Simpson's paradox and confounding. Chapter 7 blends structural modeling with counterfactual reasoning. Chapter 8 is an approach to imperfect random assignment experiments through bounding effects and counterfactuals. Chapter 9 analyzes notions of necessary cause and sufficient cause. Chapter 10 explicates a concept of single event causality. The epilogue is a public lecture that Pearl gave at UCLA that, in mostly not too technical language, places the new approach to causality within the long history of thought on the subject.

The interdisciplinary nature of the book, a great strength, at times makes it difficult to read because its theory of inferred causation blends the languages

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Causality Models Reasoning And Inference

Wayne D. Gray, Christian D. Schunn



Causality Models Reasoning And Inference:

Causality Judea Pearl, 2009-09-14 Causality offers the first comprehensive coverage of causal analysis in many sciences including recent advances using graphical methods Pearl presents a unified account of the probabilistic manipulative counterfactual and structural approaches to causation and devises simple mathematical tools for analyzing the relationships between causal connections statistical associations actions and observations The book will open the way for including causal analysis in the standard curriculum of statistics artificial intelligence Causality Judea Pearl, 2000 *Causality* Judea Pearl, 2009 **Causality** Judea Pearl, 2007 A Logical Theory of Causality Alexander Bochman, 2021-08-17 A general formal theory of causal reasoning as a logical study of causal models reasoning and inference In this book Alexander Bochman presents a general formal theory of causal reasoning as a logical study of causal models reasoning and inference basing it on a supposition that causal reasoning is not a competitor of logical reasoning but its complement for situations lacking logically sufficient data or knowledge Bochman also explores the relationship of this theory with the popular structural equation approach to causality proposed by Judea Pearl and explores several applications ranging from artificial intelligence to legal theory including abduction counterfactuals actual and proximate causality dynamic causal models and reasoning about action and change in artificial intelligence As logical preparation before introducing causal concepts Bochman describes an alternative situation based semantics for classical logic that provides a better understanding of what can be captured by purely logical means He then presents another prerequisite outlining those parts of a general theory of nonmonotonic reasoning that are relevant to his own theory These two components provide a logical background for the main two tier formalism of the causal calculus that serves as the formal basis of his theory He presents the main causal formalism of the book as a natural generalization of classical logic that allows for causal reasoning This provides a formal background for subsequent chapters Finally Bochman presents a generalization of causal reasoning to dynamic domains

Causality Carlo Berzuini, Philip Dawid, Luisa Bernardinell, 2012-06-04 A state of the art volume on statistical causality Causality Statistical Perspectives and Applications presents a wide ranging collection of seminal contributions by renowned experts in the field providing a thorough treatment of all aspects of statistical causality It covers the various formalisms in current use methods for applying them to specific problems and the special requirements of a range of examples from medicine biology and economics to political science This book Provides a clear account and comparison of formal languages concepts and models for statistical causality Addresses examples from medicine biology economics and political science to aid the reader s understanding Is authored by leading experts in their field Is written in an accessible style Postgraduates professional statisticians and researchers in academia and industry will benefit from this book *Proceedings of the Twenty-fourth Annual Conference of the Cognitive Science Society* Wayne D. Gray, Christian D. Schunn, 2019-04-24 This volume features the complete text of the material presented at the Twenty Fourth Annual Conference of the Cognitive

Science Society As in previous years the symposium included an interesting mixture of papers on many topics from researchers with diverse backgrounds and different goals presenting a multifaceted view of cognitive science The volume includes all papers posters and summaries of symposia presented at this leading conference that brings cognitive scientists together The 2002 meeting dealt with issues of representing and modeling cognitive processes as they appeal to scholars in all subdisciplines that comprise cognitive science psychology computer science neuroscience linguistics and philosophy ,

Conditionals Stefan Kaufmann,David E. Over,Ghanshyam Sharma,2023-04-29 This edited book examines conditionals from a number of interdisciplinary perspectives drawing on research from fields as diverse as linguistics psychology philosophy and logic Across 13 chapters the authors not only investigate and examine various commonly held perceptions about conditionals but they also challenge many of the assumptions underpinning current conditionals scholarship setting an agenda for future research Based in part on the papers presented at a unique international summer school Conditionals in Paris this volume represents the cutting edge in the study of conditionals and it will be of interest to scholars in fields including linguistics and psychology semiotics philosophy and logic and artificial intelligence **The Book of Why** Judea Pearl,Dana Mackenzie,2018-05-15 A Turing Award winning computer scientist and statistician shows how understanding causality has revolutionized science and will revolutionize artificial intelligence Correlation is not causation This mantra chanted by scientists for more than a century has led to a virtual prohibition on causal talk Today that taboo is dead The causal revolution instigated by Judea Pearl and his colleagues has cut through a century of confusion and established causality the study of cause and effect on a firm scientific basis His work explains how we can know easy things like whether it was rain or a sprinkler that made a sidewalk wet and how to answer hard questions like whether a drug cured an illness Pearl s work enables us to know not just whether one thing causes another it lets us explore the world that is and the worlds that could have been It shows us the essence of human thought and key to artificial intelligence Anyone who wants to understand either needs The Book of Why

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