

Types of causality: Probabilistic

- Probabilistic causality: Causes make their effects more likely (or, more generally, change their probability distributions).
 - By this criterion, X is considered a cause of Y only if occurrence of X makes occurrence of Y more probable.
- Most current approaches accept that causation is probabilistic
- Objection: Test results do not cause disease, but can make it more probable (Bayes' Rule).
 - Seeing $\neq$ Doing (Pearl)

Probabilistic Causality

RJ Alexander



Probabilistic Causality:

A Probabilistic Theory of Causality Patrick Suppes, 1970 **Probabilistic Causality** Ellery Eells, 1991-03-29 In this important first book in the series Cambridge Studies in Probability Induction and Decision Theory Ellery Eells explores and refines current philosophical conceptions of probabilistic causality In a probabilistic theory of causation causes increase the probability of their effects rather than necessitate their effects in the ways traditional deterministic theories have specified Philosophical interest in this subject arises from attempts to understand population sciences as well as indeterminism in physics Taking into account issues involving spurious correlation probabilistic causal interaction disjunctive causal factors and temporal ideas Professor Eells advances the analysis of what it is for one factor to be a positive causal factor for another A salient feature of the book is a new theory of token level probabilistic causation in which the evolution of the probability of a later event from an earlier event is central *Probabilistic Causality in Longitudinal Studies* Mervi Eerola, 2012-12-06 In many applied fields of statistics the concept of causality is central to a scientific investigation The author's aim in this book is to extend the classical theories of probabilistic causality to longitudinal settings and to propose that interesting causal questions can be related to causal effects which can change in time The proposed prediction method in this study provides a framework to study the dynamics and the magnitudes of causal effects in a series of dependent events Its usefulness is demonstrated by the analysis of two examples both drawn from biomedicine one on bone marrow transplants and one on mental hospitalization Consequently statistical researchers and other scientists concerned with identifying causal relationships will find this an interesting and new approach to this problem **Probabilistic Causality** Joonsung Kim, 2002

Theories of Probabilistic Causality Joseph David Bessie, 1991 **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 Cognitive Computing - ICCC 2025 Yujiu Yang, Mengxing Huang, Xiuqin Pan, Jiajia Zhang, Junyang

Chen, Liang-Jie Zhang, 2025-09-15 This book constitutes the refereed proceedings of the 9th International Conference on Cognitive Computing ICCC 2025 Held as Part of the Services Conference Federation SCF 2025 held in Hong Kong during September 27-30 2025 The 5 full papers and 2 short papers included in this book were carefully reviewed and selected from 11 submissions They were organized in topical sections as follows research track application and industry track and short paper track **The Philosophy of Causality in Economics** Mariusz Maziarz, 2020-05-13 Approximately one in six top economic research papers draws an explicitly causal conclusion But what do economists mean when they conclude that A causes B Does cause say that we can influence B by intervening on A or is it only a label for the correlation of variables Do

quantitative analyses of observational data followed by such causal inferences constitute sufficient grounds for guiding economic policymaking The Philosophy of Causality in Economics addresses these questions by analyzing the meaning of causal claims made by economists and the philosophical presuppositions underlying the research methods used The book considers five key causal approaches the regularity approach probabilistic theories counterfactual theories mechanisms and interventions and manipulability Each chapter opens with a summary of literature on the relevant approach and discusses its reception among economists The text details case studies and goes on to examine papers which have adopted the approach in order to highlight the methods of causal inference used in contemporary economics It analyzes the meaning of the causal claim put forward and finally reconstructs the philosophical presuppositions accepted implicitly by economists The strengths and limitations of each method of causal inference are also considered in the context of using the results as evidence for policymaking This book is essential reading to those interested in literature on the philosophy of economics as well as the philosophy of causality and economic methodology in general

Causality and Causal Modelling in the Social Sciences

Federica Russo, 2008-09-18 The anti causal prophecies of last century have been disproved Causality is neither a relic of a bygone nor another fetish of modern science it still occupies a large part of the current debate in philosophy and the sciences This investigation into causal modelling presents the rationale of causality i e the notion that guides causal reasoning in causal modelling It is argued that causal models are regimented by a rationale of variation nor of regularity neither invariance thus breaking down the dominant Human paradigm The notion of variation is shown to be embedded in the scheme of reasoning behind various causal models e g Rubin s model contingency tables and multilevel analysis It is also shown to be latent yet fundamental in many philosophical accounts Moreover it has significant consequences for methodological issues the warrant of the causal interpretation of causal models the levels of causation the characterisation of mechanisms and the interpretation of probability This book offers a novel philosophical and methodological approach to causal reasoning in causal modelling and provides the reader with the tools to be up to date about various issues causality rises in social science Dr Federica Russo s book is a very valuable addition to a small number of relevant publications on causality and causal modelling in the social sciences viewed from a philosophical approach Prof Guillaume Wunsch Institute of Demography University of Louvain Belgium

Causality Phyllis Illari, Federica Russo, 2014-10-02 Head hits cause brain damage but not always Should we ban sport to protect athletes Exposure to electromagnetic fields is strongly associated with cancer development does that mean exposure causes cancer Should we encourage old fashioned communication instead of mobile phones to reduce cancer rates According to popular wisdom the Mediterranean diet keeps you healthy Is this belief scientifically sound Should public health bodies encourage consumption of fresh fruit and vegetables Severe financial constraints on research and public policy media pressure and public anxiety make such questions of immense current concern not just to philosophers but to scientists governments public bodies and the general public In the last decade there

has been an explosion of theorizing about causality in philosophy and also in the sciences This literature is both fascinating and important but it is involved and highly technical This makes it inaccessible to many who would like to use it philosophers and scientists alike This book is an introduction to philosophy of causality one that is highly accessible to scientists unacquainted with philosophy to philosophers unacquainted with science and to anyone else lost in the labyrinth of philosophical theories of causality It presents key philosophical accounts concepts and methods using examples from the sciences to show how to apply philosophical debates to scientific problems

Methodological Foundations of Macroeconomics Alessandro Vercelli, 1991-09-26 This book is an investigation of the methodological and epistemological foundations of macroeconomic theory based on an examination of the theories of Keynes and Lucas It is divided into two parts In the first Professor Vercelli discusses the methodological issues which lie behind the conflict among different schools of thought in macroeconomics equilibrium and disequilibrium risk and uncertainty rationality and causality These issues are central to the current debate not only in many branches of economics but also in other scientific disciplines The traditional point of view of science based on equilibrium stability and determinism has been increasingly challenged by a new point of view in which disequilibrium instability and uncertainty play a crucial role This the author argues is bound to put macroeconomics in a new more promising position In the second part of the book the author compares the two main alternative research programmes in macroeconomics that outlined by Keynes in his General Theory and that suggested by Lucas the leader of the new classical economists

Causality and Explanation Wesley C. Salmon, 1998-01-22 For over two decades Wesley Salmon has helped to shape the course of debate in philosophy of science He is a major contributor to the philosophical discussion of problems associated with causality and the author of two influential books on scientific explanation This long awaited volume collects twenty six of Salmon s essays including seven that have never before been published and others difficult to find Part I comprises five introductory essays that presuppose no formal training in philosophy of science and form a background for subsequent essays Parts II and III contain Salmon s seminal work on scientific explanation and causality Part IV offers survey articles that feature advanced material but remain accessible to those outside philosophy of science Essays in Part V address specific issues in particular scientific disciplines namely archaeology and anthropology astrophysics and cosmology and physics Clear compelling and essential this volume offers a superb introduction to philosophy of science for nonspecialists and belongs on the bookshelf of all who carry out work in this exciting field Wesley Salmon is renowned for his seminal contributions to the philosophy of science He has powerfully and permanently shaped discussion of such issues as lawlike and probabilistic explanation and the interrelation of explanatory notions to causal notions This unique volume brings together twenty six of his essays on subjects related to causality and explanation written over the period 1971 1995 Six of the essays have never been published before and many others have only appeared in obscure venues The volume includes a section of accessible introductory pieces as well as more advanced and

technical pieces and will make essential work in the philosophy of science readily available to both scholars and students

Scientific Explanation and the Causal Structure of the World Wesley C. Salmon, 2020-11-10 The philosophical theory of scientific explanation proposed here involves a radically new treatment of causality that accords with the pervasively statistical character of contemporary science Wesley C Salmon describes three fundamental conceptions of scientific explanation the epistemic modal and ontic He argues that the prevailing view a version of the epistemic conception is untenable and that the modal conception is scientifically out dated Significantly revising aspects of his earlier work he defends a causal mechanical theory that is a version of the ontic conception Professor Salmon s theory furnishes a robust argument for scientific realism akin to the argument that convinced twentieth century physical scientists of the existence of atoms and molecules To do justice to such notions as irreducibly statistical laws and statistical explanation he offers a novel account of physical randomness The transition from the reviewed view of scientific explanation that explanations are arguments to the causal mechanical model requires fundamental rethinking of basic explanatory concepts Handbook of Philosophical Logic Dov M. Gabbay, Franz Guenther, 2007-08-28 The fourteenth volume of the Second Edition covers central topics in philosophical logic that have been studied for thousands of years since Aristotle Inconsistency Causality Conditionals and Quantifiers These topics are central in many applications of logic in central disciplines and this book is indispensable to any advanced student or researcher using logic in these areas The chapters are comprehensive and written by major figures in the field *Bayesian Nets and Causality: Philosophical and Computational Foundations* Jon Williamson, 2005 Bayesian nets are used in artificial intelligence as a calculus for causal reasoning enabling machines to make predictions perform diagnoses take decisions and even to discover causal relationships This book brings together how to automate reasoning in artificial intelligence and the nature of causality and probability in philosophy Probability and Causality J.H. Fetzer, 2012-12-06 The contributions to this special collection concern issues and problems discussed in or related to the work of Wesley C Salmon Salmon has long been noted for his important work in the philosophy of science which has included research on the interpretation of probability the nature of explanation the character of reasoning the justification of induction the structure of space time and the paradoxes of Zeno to mention only some of the most prominent During a time of increasing preoccupation with historical and sociological approaches to understanding science which characterize scientific developments as though they could be adequately analysed from the perspective of political movements even mistaking the phenomena of conversion for the rational appraisal of scientific theories Salmon has remained steadfastly devoted to isolating and justifying those normative standards distinguishing science from non science especially through the vindication of general principles of scientific procedure and the validation of specific examples of scientific theories without which science itself cannot be even remotely adequately understood In this respect Salmon exemplifies and strengthens a splendid tradition whose most remarkable representatives include Hans Reichenbach Rudolf Carnap and Carl

G Hempel all of whom exerted a profound influence upon his own development *Actual Causality* Joseph Y.

Halpern,2019-02-19 A new approach for defining causality and such related notions as degree of responsibility degrees of blame and causal explanation Causality plays a central role in the way people structure the world we constantly seek causal explanations for our observations But what does it even mean that an event C actually caused event E The problem of defining actual causation goes beyond mere philosophical speculation For example in many legal arguments it is precisely what needs to be established in order to determine responsibility The philosophy literature has been struggling with the problem of defining causality since Hume In this book Joseph Halpern explores actual causality and such related notions as degree of responsibility degree of blame and causal explanation The goal is to arrive at a definition of causality that matches our natural language usage and is helpful for example to a jury deciding a legal case a programmer looking for the line of code that cause some software to fail or an economist trying to determine whether austerity caused a subsequent depression Halpern applies and expands an approach to causality that he and Judea Pearl developed based on structural equations He carefully formulates a definition of causality and building on this defines degree of responsibility degree of blame and causal explanation He concludes by discussing how these ideas can be applied to such practical problems as accountability and program verification Technical details are generally confined to the final section of each chapter and can be skipped by non mathematical readers *Linear Causal Modeling with Structural Equations* Stanley A. Mulaik,2009-06-16 Emphasizing

causation as a functional relationship between variables this book provides comprehensive coverage on the basics of SEM It takes readers through the process of identifying estimating analyzing and evaluating a range of models The author discusses the history and philosophy of causality and its place in science and presents graph theory as a tool for the design and analysis of causal models He explains how the algorithms in SEM are derived and how they work covers various indices and tests for evaluating the fit of structural equation models to data and explores recent research in graph theory path tracing rules and model evaluation Causality, Probability, and Medicine Donald Gillies,2018-08-15 Why is understanding causation so important in philosophy and the sciences Should causation be defined in terms of probability Whilst causation plays a major role in theories and concepts of medicine little attempt has been made to connect causation and probability with medicine itself Causality Probability and Medicine is one of the first books to apply philosophical reasoning about causality to important topics and debates in medicine Donald Gillies provides a thorough introduction to and assessment of competing theories of causality in philosophy including action related theories causality and mechanisms and causality and probability Throughout the book he applies them to important discoveries and theories within medicine such as germ theory tuberculosis and cholera smoking and heart disease the first ever randomized controlled trial designed to test the treatment of tuberculosis the growing area of philosophy of evidence based medicine and philosophy of epidemiology This book will be of great interest to students and researchers in philosophy of science and philosophy of medicine as well as those working in

medicine nursing and related health disciplines where a working knowledge of causality and probability is required **The Oxford Handbook of Causation** Helen Beebe, Christopher Hitchcock, Peter Menzies, 2012-01-12 Causation is a central topic in many areas of philosophy In metaphysics philosophers want to know what causation is and how it is related to laws of nature probability action and freedom of the will In epistemology philosophers investigate how causal claims can be inferred from statistical data and how causation is related to perception knowledge and explanation In the philosophy of mind philosophers want to know whether and how the mind can be said to have causal efficacy and in ethics whether there is a moral distinction between acts and omissions and whether the moral value of an act can be judged according to its consequences And causation is a contested concept in other fields of enquiry such as biology physics and the law This book provides an in depth and comprehensive overview of these and other topics as well as the history of the causation debate from the ancient Greeks to the logical empiricists The chapters provide surveys of contemporary debates while often also advancing novel and controversial claims and each includes a comprehensive bibliography and suggestions for further reading The book is thus the most comprehensive source of information about causation currently available and will be invaluable for upper level undergraduates through to professional philosophers

Probabilistic Causality: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Probabilistic Causality : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Probabilistic Causality : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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