

DISCOVERING CAUSAL STRUCTURE

**Artificial Intelligence,
Philosophy of Science,
and Statistical Modeling**

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Discovering Causal Structure From Observations

Rick H. Hoyle



Discovering Causal Structure From Observations:

Discovering Causal Structure Clark Glymour, Richard Scheines, Peter Spirtes, 2014-05-10 Discovering Causal Structure Artificial Intelligence Philosophy of Science and Statistical Modeling provides information pertinent to the fundamental aspects of a computer program called TETRAD This book discusses the version of the TETRAD program which is designed to assist in the search for causal explanations of statistical data or alternative models This text then examines the notion of applying artificial intelligence methods to problems of statistical model specification Other chapters consider how the TETRAD program can help to find god alternative models where they exist and how it can help detect the existence of important neglected variables This book discusses as well the procedures for specifying a model or models to account for non experimental or quasi experimental data The final chapter presents a description of the format of input files and a description of each command This book is a valuable resource for social scientists and researchers **Causal Inference and**

Discovery in Python Aleksander Molak, 2023-05-31 Demystify causal inference and casual discovery by uncovering causal principles and merging them with powerful machine learning algorithms for observational and experimental data Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Examine Pearlian causal concepts such as structural causal models interventions counterfactuals and more Discover modern causal inference techniques for average and heterogenous treatment effect estimation Explore and leverage traditional and modern causal discovery methods Book Description Causal methods present unique challenges compared to traditional machine learning and statistics Learning causality can be challenging but it offers distinct advantages that elude a purely statistical mindset Causal Inference and Discovery in Python helps you unlock the potential of causality You ll start with basic motivations behind causal thinking and a comprehensive introduction to Pearlian causal concepts such as structural causal models interventions counterfactuals and more Each concept is accompanied by a theoretical explanation and a set of practical exercises with Python code Next you ll dive into the world of causal effect estimation consistently progressing towards modern machine learning methods Step by step you ll discover Python causal ecosystem and harness the power of cutting edge algorithms You ll further explore the mechanics of how causes leave traces and compare the main families of causal discovery algorithms The final chapter gives you a broad outlook into the future of causal AI where we examine challenges and opportunities and provide you with a comprehensive list of resources to learn more By the end of this book you will be able to build your own models for causal inference and discovery using statistical and machine learning techniques as well as perform basic project assessment What you will learn Master the fundamental concepts of causal inference Decipher the mysteries of structural causal models Unleash the power of the 4 step causal inference process in Python Explore advanced uplift modeling techniques Unlock the secrets of modern causal discovery using Python Use causal inference for social impact and community benefit Who this book is for This book is for machine learning engineers researchers and data scientists looking to extend their toolkit and explore

causal machine learning It will also help people who ve worked with causality using other programming languages and now want to switch to Python those who worked with traditional causal inference and want to learn about causal machine learning and tech savvy entrepreneurs who want to go beyond the limitations of traditional ML You are expected to have basic knowledge of Python and Python scientific libraries along with knowledge of basic probability and statistics

Lectures on Advanced Topics in Categorical Data Analysis Tamás Rudas,2024-12-16 This book continues the mission of the previous text by the author Lectures on Categorical Data Analysis by expanding on the introductory concepts from that volume and providing a mathematically rigorous presentation of advanced topics and current research in statistical techniques which can be applied in the social political behavioral and life sciences It presents an intuitive and unified discussion of an array of themes in categorical data analysis and the emphasis on structure over stochastics renders many of the methods applicable in machine learning environments and for the analysis of big data The book focuses on graphical models their application in causal analysis the analytical properties of parameterizations of multivariate discrete distributions marginal models and coordinate free relational models To guide the readers in future research the volume provides references to original papers and also offers detailed proofs of most of the significant results Like the previous volume it features exercises and research questions making it appropriate for graduate students as well as for active researchers

Machine Learning and Knowledge Discovery in Databases. Research Track Albert Bifet,Jesse Davis,Tomas Krilavičius,Meelis Kull,Eirini Ntoutsi,Indrė Žliobaitė,2024-08-29 This multi volume set LNAI 14941 to LNAI 14950 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2024 held in Vilnius Lithuania in September 2024 The papers presented in these proceedings are from the following three conference tracks Research Track The 202 full papers presented here from this track were carefully reviewed and selected from 826 submissions These papers are present in the following volumes Part I II III IV V VI VII VIII Demo Track The 14 papers presented here from this track were selected from 30 submissions These papers are present in the following volume Part VIII Applied Data Science Track The 56 full papers presented here from this track were carefully reviewed and selected from 224 submissions These papers are present in the following volumes Part IX and Part X

Neoconstructivism Scott Johnson,2010 Arguments over the developmental origins of human knowledge are ancient founded in the writings of Plato Aristotle Descartes Hume and Kant They have also persisted long enough to become a core area of inquiry in cognitive and developmental science Empirical contributions to these debates however appeared only in the last century when Jean Piaget offered the first viable theory of knowledge acquisition that centered on the great themes discussed by Kant object space time and causality The essence of Piaget s theory is constructivism The building of concepts from simpler perceptual and cognitive precursors in particular from experience gained through manual behaviors and observation The constructivist view was disputed by a generation of researchers dedicated to the idea of the competent infant endowed with knowledge say

of permanent objects that emerged prior to facile manual behaviors Taking this possibility further it has been proposed that many fundamental cognitive mechanisms reasoning event prediction decision making hypothesis testing and deduction operate independently of all experience and are in this sense innate The competent infant view has an intuitive appeal attested to by its widespread popularity and it enjoys a kind of parsimony It avoids the supposed philosophical pitfall posed by having to account for novel forms of knowledge in inductive learners But this view leaves unaddressed a vital challenge to understand the mechanisms by which new knowledge arises This challenge has now been met The neoconstructivist approach is rooted in Piaget s constructivist emphasis on developmental mechanisms yet also reflects modern advances in our understanding of learning mechanisms cortical development and modeling This book brings together for the first time theoretical views that embrace computational models and developmental neurobiology and emphasize the interplay of time experience and cortical architecture to explain emergent knowledge with an empirical line of research identifying a set of general purpose sensory perceptual and learning mechanisms that guide knowledge acquisition across different domains and through development *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 *Explainable and Interpretable Models in Computer Vision and Machine Learning* Hugo Jair Escalante,Sergio Escalera,Isabelle Guyon,Xavier Baró,Yağmur Güçlütürk,Umut Güçlü,Marcel van Gerven,2018-11-29 This book compiles leading research on the development of explainable and interpretable machine learning methods in the context of computer vision and machine learning Research progress in computer vision and pattern recognition has led to a variety of modeling techniques with almost human like performance Although these models have obtained astounding results they are limited in their explainability and interpretability what is the rationale behind the decision made what in the model structure explains its functioning Hence while good performance is a critical required characteristic for learning machines explainability and interpretability capabilities are needed to take learning machines to the next step to include them in decision support systems involving human supervision This book written by leading international researchers addresses key topics of explainability and interpretability including the following Evaluation and Generalization in Interpretable Machine Learning Explanation Methods in Deep Learning Learning Functional Causal Models with Generative Neural Networks Learning Interpretable Rules for Multi Label Classification Structuring Neural Networks

for More Explainable Predictions Generating Post Hoc Rationales of Deep Visual Classification Decisions Ensembling Visual Explanations Explainable Deep Driving by Visualizing Causal Attention Interdisciplinary Perspective on Algorithmic Job Candidate Search Multimodal Personality Trait Analysis for Explainable Modeling of Job Interview Decisions Inherent Explainability Pattern Theory based Video Event Interpretations Handbook of Structural Equation Modeling Rick H. Hoyle, 2023-02-17 This accessible volume presents both the mechanics of structural equation modeling SEM and specific SEM strategies and applications The editor along with an international group of contributors and editorial advisory board are leading methodologists who have organized the book to move from simpler material to more statistically complex modeling approaches Sections cover the foundations of SEM statistical underpinnings from assumptions to model modifications steps in implementation from data preparation through writing the SEM report and basic and advanced applications including new and emerging topics in SEM Each chapter provides conceptually oriented descriptions fully explicated analyses and engaging examples that reveal modeling possibilities for use with readers data Many of the chapters also include access to data and syntax files at the companion website allowing readers to try their hands at reproducing the authors results Neuronale Netze zur Analyse von nichtlinearen Strukturmodellen mit latenten Variablen Adolf Zander, 2013-11-22 Adolf Zander entwickelt eine spezielle Architektur des autoassoziativen Multi Layer Perceptrons zur Sch tzung eines Modells mit beliebigen nichtlinearen Beziehungen zwischen zwei latenten Variablen Exploring Quantum Foundations with Single Photons Martin Ringbauer, 2017-08-21 This thesis uses high precision single photon experiments to shed new light on the role of reality causality and uncertainty in quantum mechanics It provides a comprehensive introduction to the current understanding of quantum foundations and details three influential experiments that significantly advance our understanding of three core aspects of this problem The first experiment demonstrates that the quantum wavefunction is part of objective reality if there is any such reality in our world The second experiment shows that quantum correlations cannot be explained in terms of cause and effect even when considering superluminal influences between measurement outcomes The final experiment in this thesis demonstrates a novel uncertainty relation for joint quantum measurements where the textbook relation does not apply Artificial Intelligence Lu Fang, Daniel Povey, Guangtao Zhai, Tao Mei, Ruiping Wang, 2023-01-01 This three volume set LNCS 13604 13606 constitutes revised selected papers presented at the Second CAAI International Conference on Artificial Intelligence held in Beijing China in August 2022 CICA I is a summit forum in the field of artificial intelligence and the 2022 forum was hosted by Chinese Association for Artificial Intelligence CAAI The 164 papers were thoroughly reviewed and selected from 521 submissions CICA I aims to establish a global platform for international academic exchange promote advanced research in AI and its affiliated disciplines such as machine learning computer vision natural language processing and data mining amongst others **Machine Learning and Knowledge Discovery in Databases** Massih-Reza Amini, Stéphane Canu, Asja Fischer, Tias Guns, Petra Kralj Novak, Grigorios Tsoumakas, 2023-03-17 The multi

volume set LNAI 13713 until 13718 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2022 which took place in Grenoble France in September 2022 The 236 full papers presented in these proceedings were carefully reviewed and selected from a total of 1060 submissions In addition the proceedings include 17 Demo Track contributions The volumes are organized in topical sections as follows Part I Clustering and dimensionality reduction anomaly detection interpretability and explainability ranking and recommender systems transfer and multitask learning Part II Networks and graphs knowledge graphs social network analysis graph neural networks natural language processing and text mining conversational systems Part III Deep learning robust and adversarial machine learning generative models computer vision meta learning neural architecture search Part IV Reinforcement learning multi agent reinforcement learning bandits and online learning active and semi supervised learning private and federated learning Part V Supervised learning probabilistic inference optimal transport optimization quantum hardware sustainability Part VI Time series financial machine learning applications applications transportation demo track

Proceedings of the 2021 Joint Workshop of Fraunhofer IOSB and Institute for Anthropomatics, Vision and Fusion Laboratory Beyerer, Jürgen, Zander, Tim, 2022-07-05 2021 the annual joint workshop of the Fraunhofer IOSB and KIT IES was hosted at the IOSB in Karlsruhe For a week from the 2nd to the 6th July the doctoral students extensive reports on the status of their research The results and ideas presented at the workshop are collected in this book in the form of detailed technical reports *Advances in Artificial Intelligence, Computation, and Data Science* Tuan D. Pham, Hong Yan, Muhammad W. Ashraf, Folke Sjöberg, 2021-07-12 Artificial intelligence AI has become pervasive in most areas of research and applications While computation can significantly reduce mental efforts for complex problem solving effective computer algorithms allow continuous improvement of AI tools to handle complexity in both time and memory requirements for machine learning in large datasets Meanwhile data science is an evolving scientific discipline that strives to overcome the hindrance of traditional skills that are too limited to enable scientific discovery when leveraging research outcomes Solutions to many problems in medicine and life science which cannot be answered by these conventional approaches are urgently needed for society This edited book attempts to report recent advances in the complementary domains of AI computation and data science with applications in medicine and life science The benefits to the reader are manifold as researchers from similar or different fields can be aware of advanced developments and novel applications that can be useful for either immediate implementations or future scientific pursuit Features Considers recent advances in AI computation and data science for solving complex problems in medicine physiology biology chemistry and biochemistry Provides recent developments in three evolving key areas and their complementary combinations AI computation and data science Reports on applications in medicine and physiology including cancer neuroscience and digital pathology Examines applications in life science including systems biology biochemistry and even food technology This unique book representing research from a team of international

contributors has not only real utility in academia for those in the medical and life sciences communities but also a much wider readership from industry science and other areas of technology and education Machine Learning for Civil and Environmental Engineers M. Z. Naser, 2023-08-08 Accessible and practical framework for machine learning applications and solutions for civil and environmental engineers This textbook introduces engineers and engineering students to the applications of artificial intelligence AI machine learning ML and machine intelligence MI in relation to civil and environmental engineering projects and problems presenting state of the art methodologies and techniques to develop and implement algorithms in the engineering domain Through real world projects like analysis and design of structural members optimizing concrete mixtures for site applications examining concrete cracking via computer vision evaluating the response of bridges to hazards and predicating water quality and energy expenditure in buildings this textbook offers readers in depth case studies with solved problems that are commonly faced by civil and environmental engineers The approaches presented range from simplified to advanced methods incorporating coding based and coding free techniques Professional engineers and engineering students will find value in the step by step examples that are accompanied by sample databases and codes for readers to practice with Written by a highly qualified professional with significant experience in the field Machine Learning includes valuable information on The current state of machine learning and causality in civil and environmental engineering as viewed through a scientometrics analysis plus a historical perspective Supervised vs unsupervised learning for regression classification and clustering problems Explainable and causal methods for practical engineering problems Database development outlining how an engineer can effectively collect and verify appropriate data to be used in machine intelligence analysis A framework for machine learning adoption and application covering key questions commonly faced by practitioners This textbook is a must have reference for undergraduate graduate students to learn concepts on the use of machine learning for scientists researchers to learn how to integrate machine learning into civil and environmental engineering and for design engineering professionals as a reference guide for undertaking MI design simulation and optimization for infrastructure Philosophy of Artificial Intelligence and Its Place in Society Moutinho, Luiz, Cavique, Luís, Bigné, Enrique, 2023-10-16 The early 2020s have been marked by a surge of interest in artificial intelligence AI and it has grown to be one of the hottest topics in computer science business technology research and educational technologies Despite AI winters in the 1970s and 1990s where interest and subsequently adequate funding for AI research ceased and as the technology and its usefulness become more perceptible often with brilliant results society is once again ready to investigate this powerful technology and its potential However a challenge arises when AI is called into question in an ethical context It is important that we explore how it can contribute to the resolution of ethical social and environmental issues and also to address growing concerns around AI developing emergent bias as well as the human application of AI for malicious purposes With recent AI based writing technologies concerns around academic integrity abound and challenge our

perceptions of authenticity in writing A careful assessment of these technologies their usefulness and potential harm and strategic solutions to maintaining ethical standards and regulation of the technology is a necessity for the maintenance of civilized life amidst these tools Philosophy of Artificial Intelligence and Its Place in Society evaluates various aspects of artificial intelligence including the range of technologies their advantages and disadvantages and how AI systems operate Spanning from machine learning to deep learning philosophical insights societal concerns and the newest approaches to AI it helps to develop an appreciation for and breadth of knowledge across the full range of AI sub disciplines including neural networks evolutionary computation computer vision robotics expert systems speech processing and natural language processing Led Dr Luiz Moutinho of the University of Suffolk in the United Kingdom who has won several awards for his academic literature this book provides academic market scholars researchers and students of philosophy sociology economics and education as well as corporate scientists with a comprehensive collection of core research elements concepts advances applications evidence and outcomes related to artificial intelligence

Computer Applications in the Social Sciences Edward E. Brent, Ronald E. Anderson, 1990 Presenting an introduction to computing and advice on computer applications this book examines hardware and software with respect to the needs of the social scientist It offers a framework for the use of computers with focus on the work station the center of which is a personal computer connected to networks by a telephone based modem

Direction Dependence in Statistical Modeling Wolfgang Wiedermann, Daeyoung Kim, Engin A. Sungur, Alexander von Eye, 2020-11-24 Covers the latest developments in direction dependence research Direction Dependence in Statistical Modeling Methods of Analysis incorporates the latest research for the statistical analysis of hypotheses that are compatible with the causal direction of dependence of variable relations Having particular application in the fields of neuroscience clinical psychology developmental psychology educational psychology and epidemiology direction dependence methods have attracted growing attention due to their potential to help decide which of two competing statistical models is more likely to reflect the correct causal flow The book covers several topics in depth including A demonstration of the importance of methods for the analysis of direction dependence hypotheses A presentation of the development of methods for direction dependence analysis together with recent novel unpublished software implementations A review of methods of direction dependence following the copula based tradition of Sungur and Kim A presentation of extensions of direction dependence methods to the domain of categorical data An overview of algorithms for causal structure learning The book s fourteen chapters include a discussion of the use of custom dialogs and macros in SPSS to make direction dependence analysis accessible to empirical researchers

The Mind's Arrows Clark N. Glymour, 2001 This title provides an introduction to assumptions algorithms and techniques of causal Bayes nets and graphical causal models in the context of psychological examples It demonstrates their potential as a powerful tool for guiding experimental inquiry

Making Minds Henry M. Wellman, 2014 Developmental psychologists coined the term theory of mind to describe how

we understand our shifting mental states in daily life Over the past twenty years researchers have provided rich provocative data showing that from an early age children develop a sophisticated and consistent theory of mind by attributing their desires beliefs and emotions to themselves and to others Building on his pioneering research in *The Child's Theory of Mind* 1990 Henry M Wellman pulls together all that we have learned in the past twenty years to shine new light on how theory of mind develops

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