DISCOVERING CAUSAL STRUCTURE

Artificial Intelligence, Philosophy of Science, and Statistical Modeling

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Discovering Causal Structure From Observations:

　　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　　Discovering Causal Structure Clark N. Glymour,1987 Designed to assist in the search of casual explanations of statistical datas　　**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　　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 Interpreatable 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

Bayesian Artificial Intelligence Kevin B. Korb,Ann E. Nicholson,2010-12-16 The second edition of this bestseller provides a practical and accessible introduction to the main concepts foundation and applications of Bayesian networks This edition contains a new chapter on Bayesian network classifiers and a new section on object oriented Bayesian networks along with new applications and case studies It includes a new section that addresses foundational problems with causal discovery and Markov blanket discovery and a new section that covers methods of evaluating causal discovery programs The book also offers more coverage on the uses of causal interventions to understand and reason with causal Bayesian networks Supplemental materials are available on the book s website   *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 DescriptionCausal 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   **Artificial Intelligence and Machine Learning in Health Care and Medical Sciences** Gyorgy J. Simon,Constantin Aliferis,2024-03-04 This open access book provides a detailed review of the latest methods and applications of artificial intelligence AI and machine learning ML in medicine With chapters focusing on enabling the reader to develop a thorough understanding of the key concepts in these subject areas along with a range of methods and resulting models that can be utilized to solve healthcare problems the use of causal and predictive models are comprehensively discussed Care is taken to systematically describe the concepts to facilitate the reader in developing a thorough conceptual understanding of how different methods and resulting models function and how these relate to their applicability to various issues in health care and medical sciences Guidance is also given on how to avoid pitfalls that can be encountered on a day to day basis and stratify potential clinical risks Artificial Intelligence and Machine Learning in Health Care and Medical Sciences Best Practices and Pitfallsis a comprehensive guide to how AI and ML techniques can best be applied in health care The emphasis placed on how to avoid a variety of pitfalls that can be encountered makes it an indispensable guide for all medical informatics professionals and physicians who utilize these methodologies on a day to day basis Furthermore this work will be of significant interest to health data scientists administrators and to students in the health sciences seeking an up to date resource on the topic   *Machine Learning and Knowledge Discovery in Databases: Research Track* Danai Koutra,Claudia Plant,Manuel Gomez Rodriguez,Elena Baralis,Francesco Bonchi,2023-09-17 The multi volume set LNAI 14169 until 14175 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2023 which took place in Turin Italy in September 2023 The 196 papers were selected from the 829 submissions for the Research Track and 58 papers were selected from the 239 submissions for the Applied Data Science Track The volumes are organized in topical sections as follows Part I Active Learning Adversarial Machine Learning Anomaly Detection Applications Bayesian Methods Causality Clustering Part II Computer Vision Deep Learning Fairness Federated Learning Few shot learning Generative Models Graph Contrastive Learning Part III Graph Neural Networks Graphs Interpretability Knowledge Graphs Large scale Learning Part IV Natural Language Processing Neuro Symbolic Learning Optimization Recommender Systems Reinforcement Learning Representation Learning Part V Robustness Time Series Transfer and Multitask Learning Part VI Applied Machine

Learning Computational Social Sciences Finance Hardware and Systems Healthcare Human Computer Interaction Recommendation and Information Retrieval Part VII Sustainability Climate and Environment Transportation Urban Planning Demo   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   *Monetarism and the Methodology of Economics* Kevin D. Hoover,Steven M. Sheffrin,1995 Monetarism and the Methodology of Economicsis a collection of 14 original essays in honour of Thomas Mayer focusing on the themes of monetarism the transmission mechanism for monetary policy the political economy of monetary policy and the methodology of empirical economics This volume addresses the many areas where Thomas Mayer has made a major contribution and brings together a distinguished group of contributors including King Banaian Mark Blaug Martin Bronfenbrenner Richard C K Burdekin Thomas F Cargill Milton Friedman C A E Goodhart D Wade Hands Abraham Hirsch Kevin D Hoover David Laidler Thomas Mayer James L Pierce Steven M Sheffrin Richard J Sweeney Thomas D Willett Wing Thye Woo An autobiographical essay by Thomas Mayer and a short appreciation by Kevin Hoover and Steven Sheffrin are included in this volume together with a bibliography of Mayer s economic writings

Handbook of Industrial and Organizational Psychology Marvin D. Dunnette,1976 Monograph on the theory and methodology of occupational psychology and organization development covers personnel management aptitude testing and skill measurement behavioural processes in organizations group dynamics leadership and communication etc Diagrams flow

charts and references   **Proceedings of the ... International Joint Conference on Artificial Intelligence** ,2001
     Causes, Coincidences, and Theories Thomas L. Griffiths,2004   *Logique et analyse* ,2004   **IJCAI-01** Bernhard Nebel,2001   Computation, Causation, and Discovery Clark N. Glymour,Gregory Floyd Cooper,1999 In science business and policymaking anywhere data are used in prediction two sorts of problems requiring very different methods of analysis often arise The first problems of recognition and classification concerns learning how to use some features of a system to accurately predict other features of that system The second problems of causal discovery concerns learning how to predict those changes to some features of a system that will result if an intervention changes other features This book is about the second much more difficult type of problem Typical problems of causal discovery are How will a change in commission rates affect the total sales of a company How will a reduction in cigarette smoking among older smokers affect their life expectancy How will a change in the formula a college uses to award scholarships affect its dropout rate These sorts of changes are interventions that directly alter some features of the system and perhaps and this is the question indirectly alter others The contributors discuss recent research and applications using Bayes nets or directed graphic representations including representations of feedback or recursive systems The book contains a thorough discussion of foundational issues algorithms proof techniques and applications to economics physics biology educational research and other areas
     Computer Applications in the Social Sciences Edward E. Brent,Ronald E. Anderson,1990   Memoirs of the Institute of Scientific and Industrial Research, Osaka University Ōsaka Daigaku. Sangyō Kagaku Kenkyūjo,2010   *IJCAI-91* John Mylopoulos,Ray Reiter,1991   **Philosophical Foundations of Quantitative Research Methodology** Chong Ho Yu,2006-04-26 This book is a crystallization of author Chong Ho Yu s contemplation on the meaning of quantitative methods from the perspectives of history and the philosophy of science Emphasizing the importance of a data analyst always knowing where the numbers come from Yu broadens the search to include a gamut of questions exploring the foundations of quantitative research These questions include How did the Fisherian and Pearsonian frameworks originate Is quantitative methodology based upon logical positivism How could statisticians synthesize abductive deductive and inductive methods while they are substantively different in their logics How could researchers make a causal inference while a strong correlation does not necessarily entail a causal structure This informative book is written for readers with an intermediate knowledge of statistics and philosophy

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