

Causality, Correlation and Artificial Intelligence for Rational Decision Making

Tshilidzi Marwala



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Causality Correlation And Artificial Intelligence For Rational Decision Making:

Causality, Correlation And Artificial Intelligence For Rational Decision Making Tshilidzi Marwala, 2015-01-02 Causality has been a subject of study for a long time. Often causality is confused with correlation. Human intuition has evolved such that it has learned to identify causality through correlation. In this book, four main themes are considered and these are causality, correlation, artificial intelligence, and decision making. A correlation machine is defined and built using multi-layer perceptron, network principal component analysis, Gaussian Mixture models, genetic algorithms, expectation maximization technique, simulated annealing, and particle swarm optimization. Furthermore, a causal machine is defined and built using multi-layer perceptron, radial basis function, Bayesian statistics, and Hybrid Monte Carlo methods. Both these machines are used to build a Granger non-linear causality model. In addition, the Neyman-Rubin-Pearl and Granger causal models are studied and are unified. The automatic relevance determination is also applied to extend Granger causality framework to the non-linear domain. The concept of rational decision making is studied and the theory of flexibly bounded rationality is used to extend the theory of bounded rationality within the principle of the indivisibility of rationality. The theory of the marginalization of irrationality for decision making is also introduced to deal with satisficing within irrational conditions. The methods proposed are applied in biomedical engineering, condition monitoring, and for modelling interstate conflict.

Artificial Intelligence Techniques for Rational Decision Making Tshilidzi Marwala, 2014-10-20 Develops insights into solving complex problems in engineering, biomedical sciences, social science, and economics based on artificial intelligence. Some of the problems studied are in interstate conflict, credit scoring, breast cancer diagnosis, condition monitoring, wine testing, image processing, and optical character recognition. The author discusses and applies the concept of flexibly bounded rationality which prescribes that the bounds in Nobel Laureate Herbert Simon's bounded rationality theory are flexible due to advanced signal processing techniques. Moore's Law and artificial intelligence. *Artificial Intelligence Techniques for Rational Decision Making* examines and defines the concepts of causal and correlation machines and applies the transmission theory of causality as a defining factor that distinguishes causality from correlation. It develops the theory of rational counterfactuals which are defined as counterfactuals that are intended to maximize the attainment of a particular goal within the context of a bounded rational decision making process. Furthermore, it studies four methods for dealing with irrelevant information in decision making: Theory of the marginalization of irrelevant information, Principal component analysis, Independent component analysis, Automatic relevance determination method. In addition, it studies the concept of group decision making and various ways of effecting group decision making within the context of artificial intelligence. Rich in methods of artificial intelligence including rough sets, neural networks, support vector machines, genetic algorithms, particle swarm optimization, simulated annealing, incremental learning, and fuzzy networks, this book will be welcomed by researchers and students working in these areas.

Smart Computing Applications in Crowdfunding Bo Xing, Tshilidzi Marwala, 2018-12-07 The book focuses on smart

computing for crowdfunding usage looking at the crowdfunding landscape e.g. reward donation equity P2P based and the crowdfunding ecosystem e.g. regulator asker backer investor and operator The increased complexity of fund raising scenario driven by the broad economic environment as well as the need for using alternative funding sources has sparked research in smart computing techniques Covering a wide range of detailed topics the authors of this book offer an outstanding overview of the current state of the art providing deep insights into smart computing methods tools and their applications in crowdfunding exploring the importance of smart analysis prediction and decision making within the fintech industry This book is intended to be an authoritative and valuable resource for professional practitioners and researchers alike as well as finance engineering and computer science students who are interested in crowdfunding and other emerging fintech topics

Handbook Of Machine Learning - Volume 2: Optimization And Decision Making Tshilidzi Marwala, Collins Achepsah Leke, 2019-11-21 Building on this volume on Optimization and Decision Making covers a range of algorithms and their applications Like the first volume it provides a starting point for machine learning enthusiasts as a comprehensive guide on classical optimization methods It also provides an in depth overview on how artificial intelligence can be used to define disprove or validate economic modeling and decision making concepts *Rational Machines and Artificial Intelligence* Tshilidzi Marwala, 2021-03-31 Intelligent machines are populating our social economic and political spaces These intelligent machines are powered by Artificial Intelligence technologies such as deep learning They are used in decision making One element of decision making is the issue of rationality Regulations such as the General Data Protection Regulation GDPR require that decisions that are made by these intelligent machines are explainable Rational Machines and Artificial Intelligence proposes that explainable decisions are good but the explanation must be rational to prevent these decisions from being challenged Noted author Tshilidzi Marwala studies the concept of machine rationality and compares this to the rationality bounds prescribed by Nobel Laureate Herbert Simon and rationality bounds derived from the work of Nobel Laureates Richard Thaler and Daniel Kahneman Rational Machines and Artificial Intelligence describes why machine rationality is flexibly bounded due to advances in technology This effectively means that optimally designed machines are more rational than human beings Readers will also learn whether machine rationality can be quantified and identify how this can be achieved Furthermore the author discusses whether machine rationality is subjective Finally the author examines whether a population of intelligent machines collectively make more rational decisions than individual machines Examples in biomedical engineering social sciences and the financial sectors are used to illustrate these concepts Provides an introduction to the key questions and challenges surrounding Rational Machines including When do we rely on decisions made by intelligent machines What do decisions made by intelligent machines mean Are these decisions rational or fair Can we quantify these decisions and Is rationality subjective Introduces for the first time the concept of rational opportunity costs and the concept of flexibly bounded rationality as a rationality of intelligent machines and the implications of these issues on

the reliability of machine decisions Includes coverage of Rational Counterfactuals group versus individual rationality and rational markets Discusses the application of Moore s Law and advancements in Artificial Intelligence as well as developments in the area of data acquisition and analysis technologies and how they affect the boundaries of intelligent machine rationality

Artificial Intelligence and Economic Theory: Skynet in the Market Tshilidzi Marwala,Evan Hurwitz,2017-09-18 This book theoretically and practically updates major economic ideas such as demand and supply rational choice and expectations bounded rationality behavioral economics information asymmetry pricing efficient market hypothesis game theory mechanism design portfolio theory causality and financial engineering in the age of significant advances in man machine systems The advent of artificial intelligence has changed many disciplines such as engineering social science and economics Artificial intelligence is a computational technique which is inspired by natural intelligence concepts such as the swarming of birds the working of the brain and the pathfinding of the ants Artificial Intelligence and Economic Theory Skynet in the Market analyses the impact of artificial intelligence on economic theories a subject that has not been studied It also introduces new economic theories and these are rational counterfactuals and rational opportunity costs These ideas are applied to diverse areas such as modelling of the stock market credit scoring HIV and interstate conflict Artificial intelligence ideas used in this book include neural networks particle swarm optimization simulated annealing fuzzy logic and genetic algorithms It furthermore explores ideas in causality including Granger as well as the Pearl causality models

Mechanism Design, Behavioral Science and Artificial Intelligence in International Relations Tshilidzi Marwala,2024-07-23 Recent advances in AI and Mechanism Design provide a vital tool for solving collective action problems common in international relations By using AI to optimize mechanisms for cooperation and coordination we can better address issues such as climate change trade and security Mechanism Design Behavioral Science and Artificial Intelligence in International Relations shows readers how the intersection of Mechanism Design and Artificial Intelligence is revolutionizing the way we approach international relations By using AI to optimize mechanisms we can design better institutions policies and agreements that are more effective and efficient Dr Tshilidzi Marwala United Nations University Rector and UN Under Secretary General presents the essential technologies used in Game Theory Mechanism Design and AI and applies these to significant global issues such as interstate conflict cybersecurity and energy International relations are a complex field with many different actors and interests in play By incorporating AI into our analysis and decision making processes we can better understand and predict the behavior of multiple actors and design mechanisms that take these behaviors into account thereby producing more desirable and creative interdisciplinary approaches The book presents real world applications of these rapidly evolving technologies in crucial research fields such as Interstate Conflict International Trade Climate Change Water management Energy cybersecurity and global finance Provides insights for computer scientists researchers practitioners and policymakers on how to develop practical tools to solve many complex problems in international relations

such as climate change cybersecurity and interstate conflict Presents the necessary computer science mathematical methods and techniques in AI game theory mechanism design and algorithm development Includes real world applications of AI and mechanism design in a wide variety of research topics such as international conflict international trade climate change water management energy management cybersecurity and global finance Artificial Intelligence in Economics and Finance Theories Tankiso Moloi,Tshilidzi Marwala,2020-05-07 As Artificial Intelligence AI seizes all aspects of human life there is a fundamental shift in the way in which humans are thinking of and doing things Ordinarily humans have relied on economics and finance theories to make sense of and predict concepts such as comparative advantage long run economic growth lack or distortion of information and failures role of labour as a factor of production and the decision making process for the purpose of allocating resources among other theories Of interest though is that literature has not attempted to utilize these advances in technology in order to modernize economic and finance theories that are fundamental in the decision making process for the purpose of allocating scarce resources among other things With the simulated intelligence in machines which allows machines to act like humans and to some extent even anticipate events better than humans thanks to their ability to handle massive data sets this book will use artificial intelligence to explain what these economic and finance theories mean in the context of the agent wanting to make a decision The main feature of finance and economic theories is that they try to eliminate the effects of uncertainties by attempting to bring the future to the present The fundamentals of this statement is deeply rooted in risk and risk management In behavioural sciences economics as a discipline has always provided a well established foundation for understanding uncertainties and what this means for decision making Finance and economics have done this through different models which attempt to predict the future On its part risk management attempts to hedge or mitigate these uncertainties in order for the planner to reach the favourable outcome This book focuses on how AI is to redefine certain important economic and financial theories that are specifically used for the purpose of eliminating uncertainties so as to allow agents to make informed decisions In effect certain aspects of finance and economic theories cannot be understood in their entirety without the incorporation of AI *The Balancing Problem in the Governance of Artificial Intelligence* Tshilidzi Marwala,2024-11-12 This book examines the balancing problems in the governance of artificial intelligence AI AI is transforming the world at an unprecedented pace which is revolutionary and presents significant challenges Nevertheless AI s complex balance dilemma necessitates careful governance as it transforms businesses economies and society Fundamental issues discussed in this book include the complexities of AI s dual nature the challenges of aligning memorizing with thinking and the trade offs between opportunity seeking and risk aversion This book explores the complex interplay between AI security and transparency the technical decision between CPUs and GPUs and the expanding potential of quantum computing Nevertheless the challenge of maintaining balance is not resolved by technological advancements It encompasses the global arena where the forces of globalization and localization must be

reconciled and the governance sphere where self regulation must coexist with government control Comprising cutting edge research real world examples and futuristic perspectives this book guides researchers practitioners politicians entrepreneurs and leaders in navigating AI s future The reader will learn how to capitalize on the potential of AI while avoiding its weaknesses ensuring that this disruptive technology benefits society Handbook Of Machine Learning - Volume 1: Foundation Of Artificial Intelligence Tshilidzi Marwala,2018-10-22 This is a comprehensive book on the theories of artificial intelligence with an emphasis on their applications It combines fuzzy logic and neural networks as well as hidden Markov models and genetic algorithm describes advancements and applications of these machine learning techniques and describes the problem of causality This book should serves as a useful reference for practitioners in artificial intelligence

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