

Tshilidzi Marwala

# Artificial Intelligence Techniques for Rational Decision Making



Springer

# Artificial Intelligence Techniques For Rational Decision Making

**Gloria Phillips-Wren,Nikhil Ichalkaranje**

## **Artificial Intelligence Techniques For Rational Decision Making:**

*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

**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 Intelligent Decision Making: An AI-Based Approach Gloria Phillips-Wren, Nikhil Ichalkaranje, 2008-03-04 Intelligent Decision Support Systems have the potential to transform human decision making by combining research in artificial intelligence information technology and systems engineering The field of intelligent decision making is expanding rapidly due in part to advances in artificial intelligence and network centric environments that can deliver the technology Communication and coordination between dispersed systems can deliver just in time information real time processing collaborative environments and globally up to date information to a human decision maker At the same time artificial intelligence techniques have demonstrated that they have matured sufficiently to provide computational assistance to humans in practical applications This book includes contributions from leading researchers in the field beginning with the foundations of human decision making and the complexity of the human cognitive system Researchers contrast human and artificial intelligence survey computational intelligence present pragmatic systems and discuss future trends This book will be an invaluable resource to anyone interested in the current state of knowledge and key research gaps in the rapidly developing field of intelligent decision

support *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 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 Simulation in CIM and Artificial Intelligence Techniques Johannes Retti,K. E. Wichmann,1987 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

**Human Factors in Organizational Design and Management** Hal W. Hendrick,Ogden

Brown,1984 Comprises papers on various aspects of the relationship between workers and their work environment and especially on human machine interaction *The Application of Artificial Intelligence Techniques to Civil and Structural Engineering* B. H. V. Topping,1987 Includes those papers presented at the 1985 and 1987 CIVIL COMP Conferences which relate to the application of artificial intelligence techniques to civil and structural engineering Proceedings of the Twenty-third AAAI Conference on Artificial Intelligence and the Twentieth Innovative Applications of Artificial Intelligence Conference American Association for Artificial Intelligence,2008

**Decision Making** Mary Zey,1992-06-22 Prevailing highly conservative rational choice theories are challenged in this illuminating volume Mary Zey and other outstanding contributors expand our understanding of decision making theory by presenting evidence that points to the wide range and complexity of human decision making Labelled as deviations from formal rationality other models of decision making habit emotion moral and ethical values are shown to be alternative not deviant motives behind decision making Written at an accessible level this volume examines criticisms of the rational choice models from a wide range of perspectives The following chapters then concentrate on micro and macro alternatives to rational choice models including a bala

**1995**

**IEEE Conference on Control Applications** IEEE Control Systems Society,1995 Artificial Intelligence Stuart Jonathan Russell,Peter Norvig,Ernest Davis,2010 Artificial intelligence A Modern Approach 3e is ideal for one or two semester undergraduate or graduate level courses in Artificial Intelligence It is also a valuable resource for computer professionals linguists and cognitive scientists interested in artificial intelligence The revision of this best selling text offers the most comprehensive up to date introduction to the theory and practice of artificial intelligence *Artificial Intelligence and Structural Engineering* B. H. V. Topping,1991 This work shows how Information and Communications Technology ICT can

contribute to children's learning how it can be integrated into a play based curriculum and how it relates to key areas of learning such as collaboration communication exploration and socio dramatic play It outlines the ICT requirements in the UK Foundation Stage Curriculum Guidance and it examines the international relevance and implications of ICT for young children The text provides a critical account of the digital divide suggesting practical strategies for all the individuals and institutions working towards social justice It offers guidance for the development of centre based practice and on curriculum integration and the selection of developmentally appropriate educational software It also explores ergonomic issues as revealed by research How should children sit at a computer For how long What are the risks Emphasis is placed on the processes of policy development and the realization of change and guidance is given on how to use development plans and evaluation tools

**Decision Support Systems and Electronic Commerce** ,2001-05

**On Rationality, Artificial**

**Intelligence And Economics** Daniel Muller,Fernando Buarque,Tshilidzi Marwala,2022-03-09 The world we live in presents plenty of tricky impactful and hard to make decisions to be taken Sometimes the available options are ample at other times they are apparently binary either way they often confront us with dilemmas paradoxes and even denial of values In the dawn of the age of intelligence when robots are gradually taking over most decision making from humans this book sheds a bit of light on decision rationale It delves into the limits of these decision processes for both humans and machines and it does so by providing a new perspective that is somehow opposed to orthodox economics All Economics reflections in this book are underlined and linked to Artificial Intelligence The authors hope that this comprehensive and modern analysis firmly grounded in the opinions of various groundbreaking Nobel laureate economists may be helpful to a broad audience interested in how decisions may lead us all to flourishing societies That is societies in which economic blunders caused by over simplification of problems and super estimation of tools are reduced substantially

**What to Think About Machines**

**That Think** John Brockman,2015-10-06 Weighing in from the cutting edge frontiers of science today's most forward thinking minds explore the rise of machines that think Stephen Hawking recently made headlines by noting The development of full artificial intelligence could spell the end of the human race Others conversely have trumpeted a new age of superintelligence in which smart devices will exponentially extend human capacities No longer just a matter of science fiction fantasy 2001 Blade Runner The Terminator Her etc it is time to seriously consider the reality of intelligent technology many forms of which are already being integrated into our daily lives In that spirit John Brockman publisher of Edge.org the world's smartest website The Guardian asked the world's most influential scientists philosophers and artists one of today's most consequential questions What do you think about machines that think

*Proceedings of the ... Annual National Conference on Artificial Intelligence* ,1997

**First International Conference on Artificial Intelligence Applications on Wall Street** ,1991

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