

A central graphic depicting a glowing blue brain with the letters "AI" in the center. The brain is surrounded by several circular icons representing different AI concepts: a globe, a bar chart, a network diagram, a lightbulb, a gear, and a person icon. Two white robotic hands are positioned on either side of the brain, holding it. The background is dark blue with a subtle grid pattern.

Artificial Intelligence Decision-Making at Multiple Levels

1) Decision Automation 2) Decision Augmentation 3) Decision Support

Artificial Intelligence Techniques For Rational Decision Making

Bo Xing, Tshilidzi Marwala



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

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

Artificial Intelligence, Game Theory and Mechanism Design in Politics Tshilidzi Marwala,2023-08-04 This book explores how AI and mechanism design can provide a new framework for international politics The international political system is all manners in which countries governments and people relate Mechanism design in international politics relates to identifying rules that define relationships between people and countries that achieve a particular outcome e g peace or more trade or democracy or economic development Artificial intelligence is technique of making machines intelligent This book explores mechanism design and artificial intelligence in international politics and applies these technologies to politics economy and society This book will be of interest to scholars of international relations politics sustainable development and artificial intelligence

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 **Artificial Intelligence in Industrial Decision Making, Control and Automation** S.G. Tzafestas, H. B. Verbruggen, 2012-12-06 This book is concerned with Artificial Intelligence AI concepts and techniques as applied to industrial decision making control and automation problems The field of AI has been expanded enormously during the last years due to that solid theoretical and application results have accumulated During the first stage of AI development most workers in the field were content with illustrations showing ideas at work on simple problems Later as the field matured emphasis was turned to demonstrations that showed the capability of AI techniques to handle problems of practical value Now we arrived at the stage where researchers and practitioners are actually building AI systems that face real world and industrial problems This volume provides a set of twenty four well selected contributions that deal with the application of AI to such real life and industrial problems These contributions are grouped and presented in five parts as follows Part 1 General Issues Part 2 Intelligent Systems Part 3 Neural Networks in Modelling Control and Scheduling Part 4 System Diagnostics Part 5 Industrial Robotic Manufacturing and Organizational Systems Part 1 involves four chapters providing background material and dealing with general issues such as the conceptual integration of qualitative and quantitative models the treatment of timing problems at system integration and the investigation of correct reasoning in interactive man robot systems 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

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 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

Artificial Intelligence and the Law Tshilidzi Marwala,Letlhokwa George Mpedi,2024-05-17 This textbook offers a starting point for the education of attorneys and other legal professionals about the potential impact of artificial intelligence AI on the law as well as a forum for discussing artificial intelligence s legal and ethical concerns Intended for classroom use this book will help students legal professionals and policymakers alike AI is swiftly transforming the world including the legal system Legal applications to areas such as ethics human rights climate change labor law health social protection inequality lethal autonomous weapons the criminal justice system and autonomous vehicles contract drafting legal investigation criminal analysis and evidence investigation utilize AI As AI becomes more sophisticated its impact on the law will likely increase

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