

Advanced Information and Knowledge Processing

Tshilidzi Marwala

Economic Modeling Using Artificial Intelligence Methods

 Springer

Economic Modeling Using Artificial Intelligence Methods Advanced Information And Knowledge Processing

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Economic Modeling Using Artificial Intelligence Methods Tshilidzi Marwala, 2013-04-02 Economic Modeling Using Artificial Intelligence Methods examines the application of artificial intelligence methods to model economic data. Traditionally economic modeling has been modeled in the linear domain where the principles of superposition are valid. The application of artificial intelligence for economic modeling allows for a flexible multi order non linear modeling. In addition game theory has largely been applied in economic modeling. However the inherent limitation of game theory when dealing with many player games encourages the use of multi agent systems for modeling economic phenomena. The artificial intelligence techniques used to model economic data include multi layer perceptron neural networks radial basis functions support vector machines rough sets genetic algorithm particle swarm optimization simulated annealing multi agent system incremental learning fuzzy networks. Signal processing techniques are explored to analyze economic data and these techniques are the time domain methods time frequency domain methods and fractals dimension approaches. Interesting economic problems such as causality versus correlation simulating the stock market modeling and controlling inflation option pricing modeling economic growth as well as portfolio optimization are examined. The relationship between economic dependency and interstate conflict is explored and knowledge on how economics is useful to foster peace and vice versa is investigated. Economic Modeling Using Artificial Intelligence Methods deals with the issue of causality in the non linear domain and applies the automatic relevance determination the evidence framework Bayesian approach and Granger causality to understand causality and correlation. Economic Modeling Using Artificial Intelligence Methods makes an important contribution to the area of econometrics and is a valuable source of reference for graduate students researchers and financial practitioners.

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

The British National Bibliography Arthur James Wells,2007 *The Directory of Graduate Studies* ,1999 *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 Abstracts ,1991 *Which Degree Guide* ,2001 Artificial Intelligence Techniques and Applications for Civil and Structural Engineers B. H. V. Topping,1989 Included in this volume are papers presented at the First International Conference on the Application of Artificial Intelligence to Civil Structural Engineering 19 21 September 1989 London

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instruments which affect such things as reliability aspects and new instrumentation The papers in the second half of the volume cover the applications of the aforementioned techniques and are applied in general purpose control strategies manufacturing and factory automation and computer networks **Information Resources Management, 1984-1989: A Bibliography with Indexes** ,1990 **Directory of Published Proceedings** ,1995 **Control Applications of Nonlinear Programming and Optimization 1989** H.B. Siguerdidjane,P. Bernhard,1990-06-19 These Proceedings provide valuable information on the exchange of ideas between scientists who apply nonlinear programming and optimization to real world control problems and those who develop new methods algorithms and software The papers deal with windshear problems optimization of aircraft and spacecraft trajectories optimal control for robots the optimization of urban traffic control general mechanical systems multilevel inventory systems and robust control

Embracing the Beat of Expression: An Emotional Symphony within **Economic Modeling Using Artificial Intelligence Methods Advanced Information And Knowledge Processing**

In a world eaten by screens and the ceaseless chatter of fast conversation, the melodic splendor and mental symphony created by the published word often disappear in to the back ground, eclipsed by the persistent noise and distractions that permeate our lives. Nevertheless, nestled within the pages of **Economic Modeling Using Artificial Intelligence Methods Advanced Information And Knowledge Processing** an enchanting fictional value filled with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this fascinating masterpiece conducts readers on a psychological journey, well unraveling the concealed tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of this moving examination, we will investigate the book is key harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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