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Artificial Intelligence, Learning and Computation in Economics and Finance Ragupathy

Venkatachalam,2023-02-15 This book presents frontier research on the use of computational methods to model complex interactions in economics and finance Artificial Intelligence Machine Learning and simulations offer effective means of analyzing and learning from large as well as new types of data These computational tools have permeated various subfields of economics finance and also across different schools of economic thought Through 16 chapters written by pioneers in economics finance computer science psychology complexity and statistics econometrics the book introduces their original research and presents the findings they have yielded Theoretical and empirical studies featured in this book draw on a variety of approaches such as agent based modeling numerical simulations computable economics as well as employing tools from artificial intelligence and machine learning algorithms The use of computational approaches to perform counterfactual thought experiments are also introduced which help transcend the limits posed by traditional mathematical and statistical tools The book also includes discussions on methodology epistemology history and issues concerning prediction validation and inference all of which have become pertinent with the increasing use of computational approaches in economic analysis

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Artificial Intelligence

Soundar T. Kumara,Allen L. Soyster,Rangasami Lakshminarayana Kashyap,1988 *Challenges and Directions Forward for Dealing with the Complexity of Future Smart Cyber-Physical Systems* Martin Törngren,Didem Gürdür Broo,Elena Fersman,Harold (Bud) Lawson,Vincent

Aravantinos,2021-02-16 A key aspect of cyber physical systems CPS is their potential for integrating information technologies

with embedded control systems and physical systems to form new or improved functionalities CPS thus draws upon advances in many areas This positioning provides unprecedented opportunities for innovation both within and across existing domains However at the same time it is commonly understood that we are already stretching the limits of existing methodologies In embarking towards CPS with such unprecedented capabilities it becomes essential to improve our understanding of CPS complexity and how we can deal with it Complexity has many facets including complexity of the CPS itself of the environments in which the CPS acts and in terms of the organizations and supporting tools that develop operate and maintain CPS This book is a result of a journal Special Issue with the objective of providing a forum for researchers and practitioners to exchange their latest achievements and to identify critical issues challenges opportunities and future directions for how to deal with the complexity of future CPS The contributions include 10 papers on the following topics I Systems and Societal Aspects Related to CPS and Their Complexity II Model Based Development Methods for CPS III CPS Resource Management and Evolving Computing Platforms and IV Architectures for CPS

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In a world driven by information and connectivity, the ability of words has become much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Ai Overview Deal**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect on readers.

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