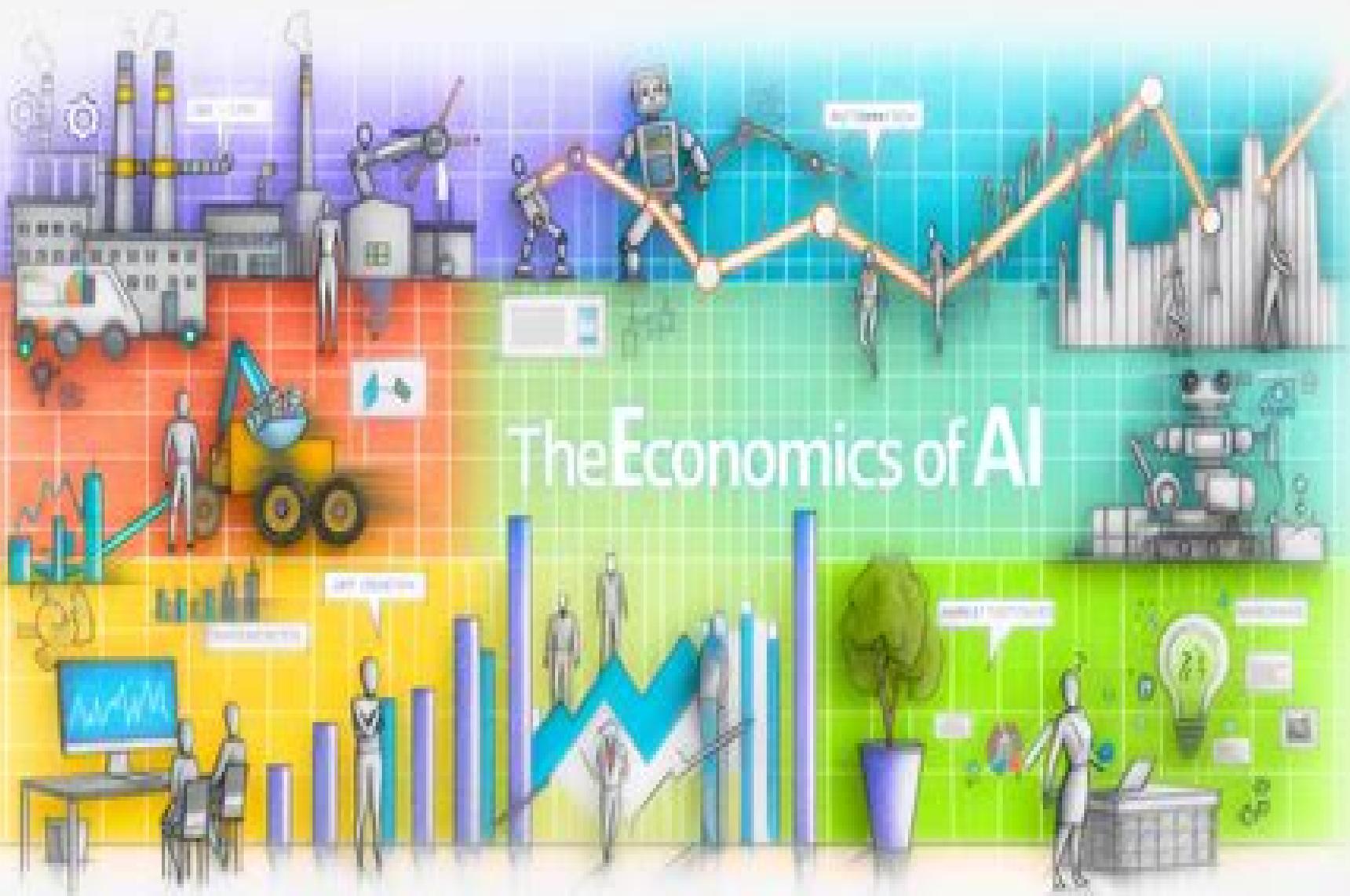


# The Economics of AI



# Artificial Economics

**Sjoukje Osinga, Gert Jan Hofstede, Tim  
Verwaart**

## **Artificial Economics:**

Artificial Economics Ruben Mercado, 2021-11-04 An introductory overview of the methods models and interdisciplinary links of artificial economics Addresses the differences between the assumptions and methods of artificial economics and those of mainstream economics This is one of the first books to fully address in an intuitive and conceptual form this new way of doing economics

**Artificial Economics** Ces Reo Hern Ndez, Marta Posada, Adolfo L Pez-Paredes, 2011-09-28 Simulation is used in economics to solve large econometric models for large scale micro simulations and to obtain numerical solutions for policy design in top down established models But these applications fail to take advantage of the methods offered by artificial economics AE through artificial intelligence and distributed computing AE is a bottom up and generative approach of agent based modelling developed to get a deeper insight into the complexity of economics AE can be viewed as a very elegant and general class of modelling techniques that generalize numerical economics mathematical programming and micro simulation approaches The papers presented in this book address methodological questions and applications of AE to macroeconomics industrial organization information and learning market dynamics finance and financial markets

**The Economics of Artificial Intelligence** Ajay Agrawal, Joshua Gans, Avi Goldfarb, Catherine E. Tucker, 2024-03-14 A timely investigation of the potential economic effects both realized and unrealized of artificial intelligence within the United States healthcare system In sweeping conversations about the impact of artificial intelligence on many sectors of the economy healthcare has received relatively little attention Yet it seems unlikely that an industry that represents nearly one fifth of the economy could escape the efficiency and cost driven disruptions of AI The Economics of Artificial Intelligence Health Care Challenges brings together contributions from health economists physicians philosophers and scholars in law public health and machine learning to identify the primary barriers to entry of AI in the healthcare sector Across original papers and in wide ranging responses the contributors analyze barriers of four types incentives management data availability and regulation They also suggest that AI has the potential to improve outcomes and lower costs Understanding both the benefits of and barriers to AI adoption is essential for designing policies that will affect the evolution of the healthcare system

**The Nexus between Artificial Intelligence and Economics** Ad J. W. van de Gevel, Charles N. Noussair, 2013-04-15 The manuscript reviews some key ideas about artificial intelligence and relates them to economics These include its relation to robotics and the concepts of synthetic emotions consciousness and life The economic implications of the advent of artificial intelligence such as its effect on prices and wages appropriate patent policy and the possibility of accelerating productivity are discussed The growing field of artificial economics and the use of artificial agents in experimental economics is considered

*Advances in Artificial Economics* Charlotte Bruun, 2007-05-19 This book is based on presentations at AE 2006 Aalborg Denmark the second symposium on Artificial Economics As a new constructive simulation method Agent Based Computational Economics ACE has in recent years proven its strength and applicability Coverage in this volume extends to

well known questions of economics like the existence of market efficiency and to questions raised by new analytical tools for example networks of social interaction Artificial Economics Philippe Mathieu, Bruno Beaufils, Olivier Brandouy, 2005-12-17

Agent based Computational Economics ACE is a new discipline of economics largely grounded on concepts like evolution auto organisation and emergence it intensively uses computer simulations as well as artificial intelligence mostly based on multi agents systems The purpose of this book is to give an up to date view of the scientific production in the fields of Agent based Computational Economics mainly in Market Finance and Game Theory Based on communications given at AE 2005 Lille USTL France this book offers a wide panorama of recent advances in ACE both theoretical and methodological that will interest academics as well as practitioners Artificial Economics and Self Organization Stephan Leitner, Friederike Wall, 2013-08-16 This volume presents recent advances in the dynamic field of Artificial Economics and its various applications Artificial Economics provides a structured approach to model and investigate economic and social systems In particular this approach is based on the use of agent based simulations and further computational techniques The main aim is to analyze the outcomes at the overall systems level as results from the agents behavior at the micro level These emergent characteristics of complex economic and social systems can neither be foreseen nor are they intended The emergence rather makes these systems function Artificial Economics especially facilitates the investigation of this emergent systems behavior

**Artificial Intelligence in Economics and Finance Theories** Tankiso Moloji, 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

**Managing Market Complexity** Andrea Teglio, Simone Alfarano, Eva Camacho-Cuena, Miguel Ginés-Vilar, 2012-07-16 The field of artificial economics AE embraces a broad range of methodologies relying on computer simulations in order to model and study the complexity of economic and social phenomena The overarching principle of AE is the analysis of aggregate properties of artificial economies populated by adaptive agents that are equipped with behavioural rules and specific individual targets These aggregate properties are neither foreseen nor intended by the artificial agents conversely they are emerging characteristics of such artificially simulated systems The book presents a peer reviewed collection of papers addressing a variety of issues related to macroeconomics industrial organization networks management and finance as well as purely methodological issues

*Economics and Law of Artificial Intelligence* Georgios I. Zekos, 2021-01-11 This book presents a comprehensive analysis of the alterations and problems caused by new technologies in all fields of the global digital economy The impact of artificial intelligence AI not only on law but also on economics is examined In the first part the economics of AI are explored including topics such as e globalization and digital economy corporate governance risk management and risk development followed by a quantitative econometric analysis which utilizes regressions stipulating the scale of the impact In the second part the author presents the law of AI covering topics such as the law of electronic technology legal issues AI and intellectual property rights and legalizing AI Case studies from different countries are presented as well as a specific analysis of international law and common law This book is a must read for scholars and students of law economics and business as well as policy makers and practitioners interested in a better understanding of legal and economic aspects and issues of AI and how to deal with them

**Emergent Results of Artificial Economics** Sjoukje Osinga, Gert Jan Hofstede, Tim Verwaart, 2011-06-22 Artificial economics is a computational approach that aims to explain economic systems by modeling them as societies of intelligent software agents The individual agents make autonomous decisions but their actual behaviors are constrained by available resources other individuals behaviors and institutions Intelligent software agents have communicative skills that enable simulation of negotiation trade reputation and other forms of knowledge transfer that are at the basis of economic life Incorporated learning mechanisms may adapt the agents behaviors In artificial economics all system behavior is generated from the individual agents simulated decisions no system level laws are a priori imposed For instance price convergence and market clearing may emerge but not necessarily Thus artificial economics facilitates the study of the mechanisms that make the economy function This book presents a selection of peer reviewed papers addressing recent developments in this field between economics and computer science

**Advances in Artificial Economics** Frédéric Amblard, Francisco J. Miguel, Adrien Blanchet, Benoit Gaudou, 2014-11-08 The book presents a peer reviewed collection of papers presented during the 10th issue of the Artificial

Economics conference addressing a variety of issues related to macroeconomics industrial organization networks management and finance as well as purely methodological issues The field of artificial economics covers a broad range of methodologies relying on computer simulations in order to model and study the complexity of economic and social phenomena The grounding principle of artificial economics is the analysis of aggregate properties of simulated systems populated by interacting adaptive agents that are equipped with heterogeneous individual behavioral rules These macroscopic properties are neither foreseen nor intended by the artificial agents but generated collectively by them They are emerging characteristics of such artificially simulated systems

**Progress in Artificial Economics** Marco Li Calzi, Lucia Milone, Paolo Pellizzari, 2010-08-22 Artificial economics aims to provide a generative approach to understanding problems in economics and social sciences It is based on the consistent use of agent based models and computational techniques It encompasses a rich variety of techniques that generalize numerical analysis mathematical programming and micro simulations The peer reviewed contributions in this volume address applications of artificial economics to markets and trading auctions networks management industry sectors macroeconomics and demographics and culture

**Artificial Economics** Cesáreo Hernández, Marta Posada Calvo, Adolfo López-Paredes, 2009-08-26 Simulation is used in economics to solve large econometric models for large scale micro simulations and to obtain numerical solutions for policy design in top down established models But these applications fail to take advantage of the methods offered by artificial economics AE through artificial intelligence and distributed computing AE is a bottom up and generative approach of agent based modelling developed to get a deeper insight into the complexity of economics AE can be viewed as a very elegant and general class of modelling techniques that generalize numerical economics mathematical programming and micro simulation approaches The papers presented in this book address methodological questions and applications of AE to macroeconomics industrial organization information and learning market dynamics finance and financial markets

**Principles of Economics** Fred Manville Taylor, 1925

**Prediction Machines** Ajay Agrawal, Joshua Gans, Avi Goldfarb, 2018-04-17 What does AI mean for your business Read this book to find out Hal Varian Chief Economist Google Artificial intelligence does the seemingly impossible magically bringing machines to life driving cars trading stocks and teaching children But facing the sea change that AI will bring can be paralyzing How should companies set strategies governments design policies and people plan their lives for a world so different from what we know In the face of such uncertainty many analysts either cower in fear or predict an impossibly sunny future But in Prediction Machines three eminent economists recast the rise of AI as a drop in the cost of prediction With this single masterful stroke they lift the curtain on the AI is magic hype and show how basic tools from economics provide clarity about the AI revolution and a basis for action by CEOs managers policy makers investors and entrepreneurs When AI is framed as cheap prediction its extraordinary potential becomes clear Prediction is at the heart of making decisions under uncertainty Our businesses and personal lives are riddled with such decisions Prediction tools

increase productivity operating machines handling documents communicating with customers Uncertainty constrains strategy Better prediction creates opportunities for new business structures and strategies to compete Penetrating fun and always insightful and practical Prediction Machines follows its inescapable logic to explain how to navigate the changes on the horizon The impact of AI will be profound but the economic framework for understanding it is surprisingly simple

*Discovering Artificial Economics* David F. Batten,2019-03-01 I Ve live in an astornshingly complex world Yet what we do in our everyday lives seems simple enough Most of us conform to society s rules pursue familiar strategies and achieve reasonably predictable outcomes In our role as economic agents we simply peddle our wares and earn our daily bread as best we can So where on earth does this astonishing complexity come from Much of it is ubiquitous in nature to be sure but part of it lies within and between us Part of it comes from those games of interaction that humans play games against nature games against each other games of competition games of cooperation In bygone eras people simply hunted and gathered to come up with dinner Today you can find theoretical economists scratching mysterious equations on whiteboards not even blackboards and getting paid to do this In the modern economy most of us make our living in a niche created for us by what others do Because we ve become more dependent on each other our economy as a whole has become more strongly interactive

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