

SUSTAINABILITY AND INNOVATION

Tobias Wittmann

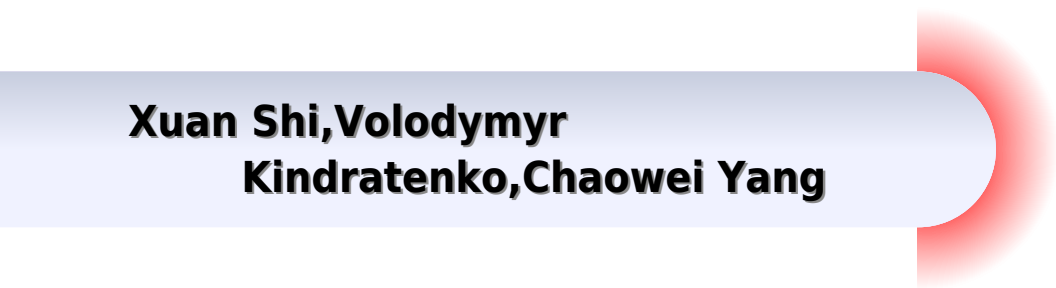
Agent-Based Models of Energy Investment Decisions



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Agent Based Models Of Energy Investment Decisions Sustainability And Innovation

**Xuan Shi, Volodymyr
Kindratenko, Chaowei Yang**



Agent Based Models Of Energy Investment Decisions Sustainability And Innovation:

Agent-Based Models of Energy Investment Decisions Tobias Wittmann, 2008-03-15 As societies face the challenge of securing an efficient and environmentally sound energy supply researchers have strived to determine the future development of energy consumption infrastructure and technology endowment This book proposes a new agent based approach to studying the development of urban energy systems Decisions of private and commercial investors and operators are modeled using a bounded rational decision model which are parameterized by socio economic data The study goes on to analyze the impact of firms competition on technology diffusion and calculate diffusion curves for energy technologies such as solar collectors boilers and efficiency upgrades for buildings While making an important methodological contribution to the field of energy modelling the author also presents practical results which will help urban planners and policy makers take more accurate decisions As societies face the challenge of securing an efficient and environmentally sound energy supply researchers have strived to determine the future development of energy consumption infrastructure and technology resources This book proposes a new agent based approach to studying the development of urban energy systems Decisions of private and commercial investors and operators are modeled using a bounded rational decision model which are parameterized by socio economic data The study goes on to analyze the impact of firms competition on technology diffusion and to calculate diffusion curves for energy technologies such as solar collectors boilers and efficiency upgrades for buildings While making an important methodological contribution to the field of energy modeling the author also presents practical results which will help policy makers and urban planners make more accurate decisions **Innovation for Sustainable**

Electricity Systems Barbara Praetorius, Dierk Bauknecht, Martin Cames, Corinna Fischer, Martin Pehnt, Katja Schumacher, Jan-Peter Voß, 2008-10-01 Innovation is key to achieving a sustainable electricity system New technologies and organizational changes can bring about more sustainable climate friendly electricity structures Yet the dynamics of innovation are complex and difficult to shape This book written by experts in the field sets out to explore the dynamics the drivers and the setting of innovation processes Case studies on micro cogeneration carbon capture and storage consumer feedback network regulation and emissions trading provide insights into innovation dynamics in the electricity system and are analyzed to derive strategic implications for innovation policies A special focus is placed on drivers and barriers of change and their consequences for shaping the innovation process This book is an indispensable source of information for researchers and decision makers in energy and climate change as well as for lecturers and students interested in the principles and ramifications of electricity innovation dynamics **The Economics of Climate Change Policies** Rainer

Walz, Joachim Schleich, 2008-09-27 In its latest Assessment Report the Intergovernmental Panel on Climate Change IPCC 2007 projects that without further action the global average surface temperature would rise by a further 1.8-4.0 °C until the end of this century But even if the rise in temperature could be limited to the lower end of this range irreversible and possibly

catastrophic changes are likely to occur Consequently the protection of the earth's atmosphere requires substantial efforts to reduce CO₂ and other greenhouse gas emissions especially in countries with very high per capita emissions To limit the imminent rise in temperature in the Kyoto Protocol the European Union has committed itself to reducing the emissions of greenhouse gases by 8% up to 2008 2012 compared to 1990 levels Within the EU burden sharing agreement some countries have to achieve even higher emissions reductions Germany was assigned a reduction target of 21% The entry into force of the Kyoto Protocol in February 2005 marks a first step towards meeting global climate targets but more ambitious action to reduce greenhouse gas emissions is needed after 2012 when the Kyoto targets expire Under German presidency the EU has committed itself to unilaterally reduce its greenhouse gas emissions until 2020 by 20% In case a Post Kyoto agreement can be reached the EU reduction target would be 30% CEU 2007

Handbook of Sustainable Innovation Frank Boons, Andrew McMeekin, 2019 The Handbook of Sustainable Innovation maps the multiple lineages of research and understanding that constitute academic work on how technological change relates to sustainable practices of production and consumption Leading academics contribute by mapping the general evolution of this academic field our understanding of sustainable innovation at the firm user and systems level the governance of sustainable innovation and the methodological approaches used The Handbook explores the distinctiveness of sustainable innovation and concludes with suggestions for generating future research avenues that exploit the current diversity of work while seeking increased systemic insight

Innovative Approaches in Agent-Based Modelling and Business Intelligence Setsuya Kurahashi, Hiroshi Takahashi, 2018-12-08 This book thoroughly prepares intermediate level readers for research in social science organization studies economics finance marketing science and business science as complex adaptive systems It presents the advantages of social simulation studies and business intelligence to those who are not familiar with the computational research approach and offers experienced modelers various instructive examples of using agent based modeling and business intelligence approaches to inspire their own work In addition the book discusses cutting edge techniques for complex adaptive systems using their applications To date business science studies have focused only on data science and analyses of business problems However using these studies to enhance the capabilities of conventional techniques in the fields has not been investigated adequately This book addresses managing the issues of societies firms and organizations to profit from interaction with agent based modeling human and computer mixed systems and business intelligence approaches an area that is fundamental for complex but bounded rational business environments With detailed research by leading authors in the field Innovative Approaches in Agent Based Modelling and Business Intelligence inspires readers to join with other disciplines and extend the scope of the book with their own unique contributions It also includes the common challenges encountered in computational social science and business science to enable researchers students and professionals to resolve their own problems

Distorted Time Preferences and Structural Change in the Energy Industry Christoph Heinzl, 2009-05-07 The present study is a slightly

revised version of my PhD thesis which was accepted at the Economics Department of Dresden University of Technology in July 2008 It has a long and a short history For it began as suggested theme as a fundamental evaluation of evolutionary economics for ecological economics asking especially for what the two elds actually constitutes and eventually relates In several years of unfruitful dwelling however neither of these two young non mainstream elds proved as constituted at a fundamental level as yet Rather ecological economics founded at the end of the 1980s as an attempt to combine social and natural s ence approaches in particular economics and ecology to study especially long run environmental problems in an encompassing manner has mainly developed into an interdisciplinary research forum on environmental economic issues Particularly uni ed by certain normative stances shared within its community it constitutes well understood a new discipline of its own right distinct from economics with its own scientific standards questions methodologies and institutions Baumgartner and Becker 2005 Modern evolutionary economics on the other hand has been a quarter of a century after its inception with Nelson and Winter 1982 still a mainly heterogeneous endeavor linked by a rather amorphous common interest in economic evolution and a critical stance towards neoclassical mainstream economics with a certain strength in applied studies on industrial dynamics Heinzel 2004 2006

Diffusion of Innovative Energy Services Anna Kowalska-Pyzalska, 2023-08-25

Diffusion of Innovative Energy Services Consumers Acceptance and Willingness to Pay consolidates research in the diffusion adoption and acceptance of Innovative energy services IES including dynamic green electricity tariffs small scale energy generators and smart metering information systems among residential electricity consumers The book addresses consumer awareness acceptance and engagement towards smart technologies focusing on the willingness to pay for IES Chapters address findings from field experiments pilot programs and simulation methods such as agent based modeling Case studies involve various countries and continents with a focus on modern pro environmental and sustainable economies where IES are offered Policy recommendations tools and interventions as well as behavioral strategies conclude the work Consolidates and integrates key findings across economic behavioral and social elements of IES diffusion Addresses the economic appraisal of IES covering consumers willingness to pay and the intention behavior gap phenomenon Reviews current literature regarding consumers acceptance and engagement towards IES based on field experiments pilot programs modelling and simulation Provides policy recommendations marketing tools and interventions as well as the behavioral strategies necessary to enhance IES market position alongside climate policy goals

The Elgar Companion to Energy and Sustainability Catalina Spataru, Xiaojing Lv, Priscila Carvalho, Manta Devi Nowbuth, Nadia Ameli, 2024-11-08 This Companion provides a comprehensive interdisciplinary review of the future of energy sustainability and societal well being It explores energy s connection to the Sustainable Development Goals SDGs using a variety of perspectives from business sustainability disruptive technologies law health and finance

Modern Accelerator Technologies for Geographic Information Science Xuan Shi, Volodymyr Kindratenko, Chaowei Yang, 2013-10-27 This book explores the impact of augmenting novel architectural

designs with hardware based application accelerators The text covers comprehensive aspects of the applications in Geographic Information Science remote sensing and deploying Modern Accelerator Technologies MAT for geospatial simulations and spatiotemporal analytics MAT in GIS applications MAT in remotely sensed data processing and analysis heterogeneous processors many core and highly multi threaded processors and general purpose processors are also presented This book includes case studies and closes with a chapter on future trends Modern Accelerator Technologies for GIS is a reference book for practitioners and researchers working in geographical information systems and related fields Advanced level students in geography computational science computer science and engineering will also find this book useful

The Two Sides of Innovation Guido Buenstorf,Uwe Cantner,Horst Hanusch,Michael Hutter,Hans-Walter Lorenz,Fritz Rahmeyer,2013-12-02 This volume is devoted to innovation with a special focus on its two sides namely creation and destruction and on its role in the evolution of capitalist economies The first part of the book looks at innovation and its effects on economic performance addressing issues of motives behavioral rules under uncertainty actor properties and technology characteristics The second part concentrates on potential consequences of innovative activities in particular structural change the innovation mediated effect of skill oriented policies on regional performance the destructive effects of innovation activities and the question whether novelty is always good The role of innovation in the evolution of capitalism itself is discussed in the third part

Cases on Green Energy and Sustainable Development Yang, Peter,2019-07-26 Despite the urgent need for action there is a widespread lack of understanding of the benefits of using green energy sources for not only reducing carbon emissions and climate change but also for growing a sustainable economy and society Future citizens of the world face increasing sustainability issues and need to be better prepared for energy transformation and sustainable future economic development Cases on Green Energy and Sustainable Development is a critical research book that focuses on the important role renewable energy and energy efficiency play in energy transition and sustainable development and covers economic and promotion policies of major renewable energy and energy efficiency technologies Highlighting a wide range of topics such as economics energy storage and transportation technologies this book is ideal for environmentalists

academicians researchers engineers policymakers and students **Strategic Approaches to Energy Management** Serhat Yüksel,Hasan Dinçer,2021-08-23 This book introduces current managerial approaches to energy production and energy use The volume analyses how to manage technological developments that contribute to lowering the price of energy production and also focuses on the impact renewable energy sources that provide continuity in energy production and how to manage it The book presents studies on the effectiveness of wind solar biomass geothermal and hydroelectric energies and discusses current technological approaches to prevent environmental pollution such as carbon capture and storage Furthermore the book includes sustainable economic and financial strategies to use energy more effectively and efficiently It thus appeals not only to an academic readership but also to energy management professionals working in this field *Innovative Solutions*

for Sustainable Supply Chains Hassan Qudrat-Ullah, 2018-08-28 This book presents the latest tools techniques and solutions that decision makers use to overcome the challenges faced by their sustainable supply chains Given the ever increasing significance of socio economic and environmental factors the management of sustainable supply chains has become a complex and dynamic task Multiple and conflicting objectives of stakeholders including suppliers manufacturers service providers and retailers add to the complexity of decisions that modern day managers of supply chains face With the unprecedented technological developments and innovations at hand sustainability can be maximized for all the activities of a supply chain including service concept and product design material sourcing and procurement manufacturing processes delivery of the final product and end of life management of the product Consequently the sustainable supply chains problems require a systematic and integrated approach Modeling and simulation in general as well as system dynamics and agent based modeling in particular have the capabilities to deal with the complexity of sustainable supply chain related problems This book will appeal to professionals and researchers in the field

Sustainable, Energy-efficient Transportation Infrastructure United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Technology and Innovation, 2008

Agent-Based Models with MATLAB Erik Cuevas, Karla Avila, Miguel Islas Toski, Héctor Escobar, 2025-01-20 Agent Based Models with MATLAB introduces Agent Based Modeling ABM one of the most important methodologies for complex systems modeling The book explores computational implementations and accompanying MATLAB software code as a means of inspiring readers to apply agent based models to solve a diverse range of problems It comes with a large amount of software code that accompanies the main text and the modeling systems described in the book are implemented using MATLAB as the programming language Despite the heavy mathematical components of Agent Based Models and complex systems it is possible to utilize these models without in depth understanding of their mathematical fundamentals This book enables computer scientists mathematicians researchers and engineers to apply ABM in a wide range of research and engineering applications It gradually advances from basic to more advanced methods while reinforcing complex systems through practical hands on applications of various computational models Considers the most crucial methods and models of Agent Based Models and complex systems Demonstrates how to use computational implementations in applying Agent Based Models to solve a diverse range of scientific research and engineering problems Provides a wide range of hands on implementation examples along with MATLAB software code readers can experiment with and modify

Proceedings of the European Conference on Complex Systems 2012 Thomas Gilbert, Markus Kirkilionis, Gregoire Nicolis, 2013-08-15 The European Conference on Complex Systems held under the patronage of the Complex Systems Society is an annual event that has become the leading European conference devoted to complexity science ECCS 12 its ninth edition took place in Brussels during the first week of September 2012 It gathered about 650 scholars representing a wide range of topics relating to complex systems research with emphasis on

interdisciplinary approaches More specifically the following tracks were covered 1 Foundations of Complex Systems 2 Complexity Information and Computation 3 Prediction Policy and Planning Environment 4 Biological Complexity 5 Interacting Populations Collective Behavior 6 Social Systems Economics and Finance This book contains a selection of the contributions presented at the conference and its satellite meetings Its contents reflect the extent diversity and richness of research areas in the field both fundamental and applied

Decision Making in Interdisciplinary Renewable Energy Projects Hasan Dinçer, Serhat Yüksel, Muhammet Deveci, 2024-05-13 This edited book presents a comprehensive analysis of the multidimensional aspects associated with decision making in renewable energy investment projects It delves into the interplay between interdisciplinary studies sustainability considerations and circular economy principles within the renewable energy sector By examining the impact of these interconnected domains the book offers valuable insights into the challenges and opportunities inherent in decision making for renewable energy investments The book is tailored to a diverse audience including researchers scholars and professionals in the fields of renewable energy sustainability circular economy and business management It is equally suitable for graduate and undergraduate students studying environmental studies renewable energy sustainability and related disciplines Professionals working in the renewable energy industry including project developers investors and policymakers will find valuable insights to inform their decision making processes Additionally engineers economists social scientists and environmental consultants interested in interdisciplinary studies and their intersection with renewable energy will benefit from the book's comprehensive analysis

Complexity Economics for Environmental Governance Jean-François Mercure, 2022-11-17 This book redesigns environmental governance for a sustainability transition helping academics and decision makers truly understand the socio economic impacts of policy

Research Outlook, Innovations & Research Trends in Social Sciences Dr R Shanthi, Prof D Ayub Khan Dawood, Dr Prashant P Chaudhari, Mrs Priyanka Gupta, 2020-10-25 Methodology is the field which is indisputably complex In the academic world it is often said to be important yet in everyday academic practice it is not always treated accordingly In teaching methodology is often a mandatory course Usually it consists of learning how to adopt several common approaches when doing research and how to conceive a research design Effective research methods are the tools by which information is gathered Without the appropriate design and use of research methods we are unlikely to gather quality information and as such create a shaky foundation to any review evaluation or future strategy The book *Research Outlook innovations and Research Trends in Social Sciences* provides several examples to illustrate the concepts and points presented Users will also note throughout the book the variety of examples in different areas of business production operations management business policy and strategy organizational behavior human resources management information systems marketing accounting and finance cited to illustrate that research finds application in all areas of business Above all this book is aimed at students who working the field of Social sciences and to those who are specifically involved in the studies that concern the functioning

structuring diagnosing or changing of organizations The goal is to offer them a preliminary guide to define and carry out various forms of research We would like to thank all the contributors who have made the production of this book so fascinating and enjoyable Their scholarship and dedicated commitment and motivation to getting it right are the keys to the book s quality and we greatly appreciate their good nature over many months in the face of our editorial demands and time limits We are also grateful for using their texts ideas and critical remarks We are grateful to all the 18 institutions for their support It will not be possible to bring out this edition We would also like to thank all reviewers and all authors for their help in consolidating the interdisciplinary of the book

New Approaches to Economic Challenges Systemic Thinking for Policy Making The Potential of Systems Analysis for Addressing Global Policy Challenges in the 21st Century

OECD,International Institute for Applied Systems Analysis,2020-02-27 In Systemic Thinking for Policy Making world experts from the OECD and International Institute for Applied Systems Analysis IIASA pool their expertise and experience to propose new approaches to analysing the interconnected trends and issues shaping today s and tomorrow s world

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