

Michael Laver and Ernest Sergenti



Party Competition

An Agent-Based Model

PRINCETON STUDIES IN COMPLEXITY

Party Competition An Agent Based Model Princeton Studies In Complexity

**Barbara Frank-Job, Alexander
Mehler, Tilmann Sutter**



Party Competition An Agent Based Model Princeton Studies In Complexity:

Party Competition Michael Laver, Ernest Sergenti, 2012 Party competition for votes in free and fair elections involves complex interactions by multiple actors in political landscapes that are continuously evolving yet classical theoretical approaches to the subject leave many important questions unanswered Here Michael Laver and Ernest Sergenti offer the first comprehensive treatment of party competition using the computational techniques of agent based modeling This exciting new technology enables researchers to model competition between several different political parties for the support of voters with widely varying preferences on many different issues Laver and Sergenti model party competition as a true dynamic process in which political parties rise and fall a process where different politicians attack the same political problem in very different ways and where today s political actors lacking perfect information about the potential consequences of their choices must constantly adapt their behavior to yesterday s political outcomes Party Competition shows how agent based modeling can be used to accurately reflect how political systems really work It demonstrates that politicians who are satisfied with relatively modest vote shares often do better at winning votes than rivals who search ceaselessly for higher shares of the vote It reveals that politicians who pay close attention to their personal preferences when setting party policy often have more success than opponents who focus solely on the preferences of voters that some politicians have idiosyncratic valence advantages that enhance their electability and much more **The Governance Cycle in**

Parliamentary Democracies Scott de Marchi, Michael Laver, 2023-02-09 Parliamentary democracy involves a never ending cycle of elections government formations and the need for governments to survive in potentially hostile environments These conditions require members of any government to make decisions on a large number of issues some of which sharply divide them Officials resolve these divisions by logrolling conceding on issues they care less about in exchange for reciprocal concessions on issues to which they attach more importance Though realistically modeling this governance cycle is beyond the scope of traditional formal analysis this book attacks the problem computationally in two ways Firstly it models the behavior of functionally rational senior politicians who use informal decision heuristics to navigate their complex high stakes setting Secondly by applying computational methods to traditional game theory it uses artificial intelligence to model how hyper rational politicians might find strategies that are close to optimal [The Dynamics of Risk](#) Louise K.

Comfort, 2019-06-25 Earthquakes are a huge global threat In thirty six countries severe seismic risks threaten populations and their increasingly interdependent systems of transportation communication energy and finance In this important book Louise Comfort provides an unprecedented examination of how twelve communities in nine countries responded to destructive earthquakes between 1999 and 2015 And many of the book s lessons can also be applied to other large scale risks The Dynamics of Risk sets the global problem of seismic risk in the framework of complex adaptive systems to explore how the consequences of such events ripple across jurisdictions communities and organizations in complex societies

triggering unexpected alliances but also exposing social economic and legal gaps The book assesses how the networks of organizations involved in response and recovery adapted and acted collectively after the twelve earthquakes it examines It describes how advances in information technology enabled some communities to anticipate seismic risk better and to manage response and recovery operations more effectively decreasing losses Finally the book shows why investing substantively in global information infrastructure would create shared awareness of seismic risk and make postdisaster relief more effective and less expensive The result is a landmark study of how to improve the way we prepare for and respond to earthquakes and other disasters in our ever more complex world

Agent-Based Computational Economics Shu-Heng Chen,2017-09-19 This book aims to answer two questions that are fundamental to the study of agent based economic models what is agent based computational economics and why do we need agent based economic modelling of economy This book provides a review of the development of agent based computational economics ACE from a perspective on how artificial economic agents are designed under the influences of complex sciences experimental economics artificial intelligence evolutionary biology psychology anthropology and neuroscience This book begins with a historical review of ACE by tracing its origins From a modelling viewpoint ACE brings truly decentralized procedures into market analysis from a single market to the whole economy This book also reviews how experimental economics and artificial intelligence have shaped the development of ACE For the former the book discusses how ACE models can be used to analyse the economic consequences of cognitive capacity personality and cultural inheritance For the latter the book covers the various tools used to construct artificial adaptive agents including reinforcement learning fuzzy decision rules neural networks and evolutionary computation This book will be of interest to graduate students researching computational economics experimental economics behavioural economics and research methodology

The Paradigm of Social Complexity Gonzalo Castañeda,2020-08-04 With the recent developments in computing technologies and the thriving research scene in Complexity Science economists and other social scientists have become aware of a more flexible and promising alternative for modelling socioeconomic systems one that in contrast with neoclassical economics advocates for the realism of the assumptions the importance of context and culture the heterogeneity of agents individuals or organizations and the bounded rationality of individuals who behave and learn in multifaceted ways in uncertain environments The book synthesizes an extensive body of work in the field of social complexity and constructs a unifying framework that allows developing concrete applications to important socioeconomic problems This one of a kind textbook provides a comprehensive panorama for advanced undergraduates and graduate students who want to become familiar with a wide range of issues related to social complexity It is also a pioneering text that can support professors who wish to learn techniques and produce research in this novel field Con los desarrollos recientes en las tecnologías de la computación y el floreciente dinamismo de las ciencias de la complejidad economistas y otros científicos sociales tienen a su alcance una flexible y prometedora alternativa para la modelación de los sistemas socioeconómicos Esta metodología

a en contraste con la economía neoclásica aboga por el realismo de los supuestos la importancia del contexto y la cultura la heterogeneidad de los agentes individuos y organizaciones y la racionalidad acotada de las personas que se comportan y aprenden de maneras muy diversas en entorno con incertidumbre El libro sintetiza la extensa literatura que existe sobre la complejidad social y construye un enfoque unificador que permite elaborar aplicaciones concretas con las que abordar importantes problemas socioeconómicos Se trata de un texto singular dado que presenta un panorama comprensivo del campo de estudio por lo que puede resultar de sumo interés para estudiante de licenciatura avanzados y alumnos de posgrado que desean adentrarse en el tema Asimismo se trata de un texto pionero de gran utilidad para profesores y analistas interesados en aprender algunas de las técnicas del paradigma de la complejidad social para de esta forma aplicarlas en sus tareas de investigación

Agent_Zero Joshua M. Epstein, 2014-02-23 The Final Volume of the Groundbreaking Trilogy on Agent Based Modeling In this pioneering synthesis Joshua Epstein introduces a new theoretical entity Agent_Zero This software individual or agent is endowed with distinct emotional affective cognitive deliberative and social modules Grounded in contemporary neuroscience these internal components interact to generate observed often far from rational individual behavior When multiple agents of this new type move and interact spatially they collectively generate an astonishing range of dynamics spanning the fields of social conflict psychology public health law network science and economics Epstein weaves a computational tapestry with threads from Plato Hume Darwin Pavlov Smith Tolstoy Marx James and Dostoevsky among others This transformative synthesis of social philosophy cognitive neuroscience and agent based modeling will fascinate scholars and students of every stripe Epstein's computer programs are provided in the book or on its Princeton University Press website along with movies of his computational parables Agent_Zero is a signal departure in what it includes e.g. a new synthesis of neurally grounded internal modules what it eschews e.g. standard behavioral imitation the phenomena it generates from genocide to financial panic and the modeling arsenal it offers the scientific community For generative social science Agent_Zero presents a groundbreaking vision and the tools to realize it

Islands of Order J. Stephen Lansing, Murray P. Cox, 2019-10-08 Two pioneering anthropologists reveal how complexity science can help us better understand how societies change over time Over the past two decades anthropologist J. Stephen Lansing and geneticist Murray Cox have explored dozens of villages on the islands of the Malay Archipelago combining ethnographic research with research into genetic and linguistic markers to shed light on how these societies change over time Islands of Order draws on their pioneering fieldwork to show how the science of complexity can be used to better understand unstable dynamics in culture language cooperation and the emergence of hierarchies Complexity science has opened exciting new vistas in physics and biology but poses challenges for social scientists What triggers fundamental discontinuous social change And what brings stable patterns islands of order into existence Lansing and Cox begin with an incisive and accessible introduction to models of change from simple random drift to coupled interactions phase transitions co-phylogenies and adaptive landscapes

Then they take readers on a series of journeys to the islands of the Indo Pacific to demonstrate how social scientists can harness these powerful tools to discover out of equilibrium social dynamics Lansing and Cox address empirical questions surrounding the colonization of the Pacific the relationship of language to culture the emergence and disappearance of male and female hierarchies and more Unlocking new possibilities for the social sciences Islands of Order is accompanied by an interactive companion website that enables readers to explore the models described in the book New Horizons in Modeling and Simulation for Social Epidemiology and Public Health Daniel Kim,2021-01-28 An introduction to state of the art modeling and simulation approaches for social and economic determinants of population health New Horizons in Modeling and Simulation for Social Epidemiology and Public Health offers a comprehensive introduction to modeling and simulation that addresses the many complex research questions in social epidemiology and public health This book highlights a variety of practical applications and illustrative examples with a focus on modeling and simulation approaches for the social and economic determinants of population health The book contains classic case examples in agent based modeling ABM as well as essential information on ABM applications to public health including for infectious disease modeling obesity and tobacco control This book also surveys applications of microsimulation MSM including of tax benefit policies to project impacts of the social determinants of health Specifically this book Provides an overview of the social determinants of health and the public health significance of addressing the social determinants of health Gives a conceptual foundation for the application of ABM and MSM to study the social determinants of health Offers methodological introductions to both ABM and MSM approaches with illustrative examples Includes cutting edge systematic reviews of empirical applications of ABM and MSM in the social sciences social epidemiology and public health Discusses future directions for empirical research using ABM and MSM including integrating aspects of both ABM and MSM and implications for public health policies Written for a broad audience of policy analysts public planners and researchers and practitioners in public health and public policy including social epidemiologists New Horizons in Modeling and Simulation for Social Epidemiology and Public Health offers a fundamental guide to the social determinants of health and state of the art applications of ABM and MSM to studying the social and economic determinants of population health **The SAGE Handbook of Research Methods in Political Science and International Relations** Luigi Curini,Robert Franzese,2020-04-09 The SAGE Handbook of Research Methods in Political Science and International Relations offers a comprehensive overview of research processes in social science from the ideation and design of research projects through the construction of theoretical arguments to conceptualization measurement data collection and quantitative qualitative empirical analysis expositied through 65 major new contributions from leading international methodologists Each chapter surveys builds upon and extends the modern state of the art in its area Following through its six part organization undergraduate and graduate students researchers and practicing academics will be guided through the design methods and analysis of issues in Political Science and International Relations Part One

Formulating Good Research Questions Designing Good Research Projects Part Two Methods of Theoretical Argumentation
Part Three Conceptualization Measurement Part Four Large Scale Data Collection Representation Methods Part Five
Quantitative Empirical Methods Part Six Qualitative Mixed Methods **Computational Legal Studies** Ryan

Whalen,2020-09-25 Featuring contributions from a diverse set of experts this thought provoking book offers a visionary
introduction to the computational turn in law and the resulting emergence of the computational legal studies field It explores
how computational data creation collection and analysis techniques are transforming the way in which we comprehend and
study the law and the implications that this has for the future of legal studies *Computational Science - ICCS 2025*

Workshops Maciej Paszynski,Amanda S. Barnard,Yongjie Jessica Zhang,2025-08-06 The 6 volume set constitutes the
workshop proceedings of the 25th International Conference on Computational Science ICCS 2025 which took place in
Singapore Singapore during July 7 9 2025 The 137 full papers and 32 short papers presented in these proceedings were
carefully reviewed and selected from 322 submissions The papers are organized in the following topical sections Volume I
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bringing together computer vision sensor networks and artificial intelligence solving problems with uncertainty and teaching
computational science Construcción de problemas de investigación María Luisa Eschenhagen,Gabriel

Vélez-Cuartas,Carlos Maldonado,Germán Guerrero Pino,2018-01-01 Este libro est dirigido en primera instancia a estudiantes
que se encuentran en el proceso de formulaci n de sus proyectos de tesis ya sea de pregrado maestr a o doctorado No
pretende ser un texto m s de metodolog as de investigaci n sino una gu a e inspiraci n para la introducci n al mundo de la
problematizaci n desde la construcci n del problema y sus aspectos generales Inspiraci n para entrar en el mundo de la
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generales y para introducirmos al mundo de los condicionamientos de la pol tica cient fica en la orientaci n del problema
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presentado no es un di logo cerrado concluyente acabado por el contrario pretende desde la experiencia de los autores mostrar visiones distintas frente a los diferentes di logos posibles de la ciencia con la realidad de la construcci n de antecedentes y referentes para la construcci n te rica ligada a los investigadores de las respectivas comunidades acad micas y desde el contexto condicionante de la pol tica cient fica y su relaci n con los acad micos Die Dynamik sozialer und sprachlicher Netzwerke Barbara Frank-Job,Alexander Mehler,Tilmann Sutter,2013-08-04 In diesem Band pr sentieren Medien und Informationswissenschaftler Netzwerkforscher aus Informatik Texttechnologie und Physik Soziologen und Linguisten interdisziplin r Aspekte der Erforschung komplexer Mehrebenen Netzwerke Im Zentrum ihres Interesses stehen Untersuchungen zum Zusammenhang zwischen sozialen und sprachlichen Netzwerken und ihrer Dynamiken aufgezeigt an empirischen Beispielen aus dem Bereich des Web 2 0 aber auch an historischen Dokumentenkorpora sowie an Rezeptions Netzwerken aus Kunst und Literaturwissenschaft Corruption, Ideology, and Populism Luigi Curini,2017-07-22 This book investigates the ideological conditions inducing political actors to highlight corruption issues through valence campaigns Using case studies and comparative analyses of party programmes legislative speeches and social media data the author demonstrates that the more parties and or candidates present a similar policy programme the more they rely on valence campaigns In other words as the ideologies of parties have become increasingly similar over recent decades the content of political competition has substantially shifted from policy to non policy factors such as corruption issues These dynamics and the ideological considerations underpinning them also provide a novel perspective on recent phenomena in contemporary democracies such as the growth of negative campaigning as well as populist strategies based on anti elite rhetoric The book will appeal to students and scholars interested in political corruption valence politics populism and electoral campaigning

Handbook of Research Methods and Applications in Political Science Hans Keman,Jaap J. Woldendorp,2016-12-30 This Handbook offers a comprehensive overview of state of the art research methods and applications currently in use in political science It combines theory and methodology qualitative and quantitative and offers insights into the major approaches and their roots in the philosophy of scientific knowledge Including a comprehensive discussion of the relevance of a host of digital data sources plus the dos and don ts of data collection in general the book also explains how to use diverse research tools and highlights when and how to apply these techniques **Hard Questions for Democracy** Raj Chari,2019-07-09 The recent financial and economic crisis has forced governments and people from around the globe to ask some hard questions about how democracy has evolved Some of these are old questions others are new Is democracy really the most desirable form of government How democratic is policy making during the financial and economic crisis Why do vote seeking parties in modern democracies actually make voters miserable Can women s under representation in politics be explained because of voter bias Why are some citizens still excluded from voting in their country And can terrorist organizations that promote violence one day really become democratic the next This represents the first book of its kind to

ask and answer a broad range of hard questions that need to be addressed in times of both flux and calls for democratic change throughout the world It does so by bringing together leading social scientists and rising stars from around the globe Interdisciplinary in its analysis it is essential reading for students of comparative and international politics political philosophy gender studies and economics The book s website can be found at www.democracyquestions.com and it was originally published as a special issue of Irish Political Studies

Comprehensive Geographic Information Systems

,2017-07-21 Geographical Information Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth s surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline through in depth reviews authored by leading experts in the field VOLUME EDITORSThomas J CovaThe University of Utah Salt Lake City UT United StatesMing Hsiang TsouSan Diego State University San Diego CA United StatesGeorg BarethUniversity of Cologne Cologne GermanyChunqiao SongUniversity of California Los Angeles CA United StatesYan SongUniversity of North Carolina at Chapel Hill Chapel Hill NC United StatesKai CaoNational University of Singapore SingaporeElisabete A SilvaUniversity of Cambridge Cambridge United Kingdom Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications Emphasizes the practical socioeconomic applications of GIS Provides readers with a reliable one stop comprehensive guide saving them time in searching for the information they need from different sources Electronic

Governance and Open Society: Challenges in Eurasia Andrei Chugunov,Yuri Misnikov,Evgeny Roshchin,Dmitrii Trutnev,2019-02-09 This book constitutes the refereed proceedings of the 5th Conference on AElectronic Governance and Open Society Challenges in Eurasia EGOSE 2018 held in St Petersburg Russia in November 2018 The 36 revised full papers were carefully reviewed and selected from 98 submissions The papers are organized in topical sections on smart city infrastructure policy digital privacy rights security data science machine learning algorithms computational linguistics digital public administration economy policy digital services values inclusion digital democracy participation security communities social media activism social media discourse analysis digital data policy modeling digital government administration communication

Dynamics among Nations Hilton L. Root,2013-11-01 An innovative view of the changing geopolitical landscape that draws on the science of complex adaptive systems to understand changes in global interaction Liberal internationalism has been the West s foreign policy agenda since the Cold War and the West has long occupied the top rung of a hierarchical system In this book Hilton Root argues that international relations like other complex ecosystems exists in a constantly shifting landscape in which hierarchical structures are giving way to systems of networked interdependence changing every facet of global interaction Accordingly policymakers will need a new way to understand the process of change

Root suggests that the science of complex systems offers an analytical framework to explain the unforeseen development failures governance trends and alliance shifts in today's global political economy Root examines both the networked systems that make up modern states and the larger interdependent landscapes they share Using systems analysis in which institutional change and economic development are understood as self organizing complexities he offers an alternative view of institutional resilience and persistence From this perspective Root considers the divergence of East and West the emergence of the European state its contrast with the rise of China and the network properties of their respective innovation systems the trajectory of democracy in developing regions and the systemic impact of China on the liberal world order Complexity science Root argues will not explain historical change processes with algorithmic precision but it may offer explanations that match the messy richness of those processes

Simulación basada en agentes. Introducción a NetLogo
García-Valdecasas, José Ignacio, 2016-04-29 La simulación basada en agentes es un nuevo método de investigación para las ciencias sociales que permite explicar de manera sencilla fenómenos sociales políticos y económicos a través de mecanismos que hacen alusión a las acciones de los agentes y a la estructura de interacción entre ellos El entorno de programación NetLogo ofrece frente a otras herramientas ventajas como mayor rapidez de aprendizaje y uso instalación simple y obtención gratuita a través de la red y utilización tanto en el aula para la enseñanza como en el laboratorio para la investigación Los objetivos de este volumen son definir la simulación basada en agentes describir las etapas metodológicas que es preciso recorrer para realizar una investigación basada en agentes y mostrar los instrumentos básicos de NetLogo Se trata en definitiva de presentar a los científicos sociales una nueva manera de pensar sobre los problemas sociales políticos y económicos

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