

The Journal of Mathematical Sociology



Mathematical Sociology

Matteo Ciastellardi, Emanuela Patti

Mathematical Sociology:

Introduction to Mathematical Sociology Phillip Bonacich, Philip Lu, 2012-04 A comprehensive textbook on the tools of mathematical sociology and their applications Mathematical models and computer simulations of complex social systems have become everyday tools in sociology Yet until now students had no up to date textbook from which to learn these techniques Introduction to Mathematical Sociology fills this gap providing undergraduates with a comprehensive self contained primer on the mathematical tools and applications that sociologists use to understand social behavior Phillip Bonacich and Philip Lu cover all the essential mathematics including linear algebra graph theory set theory game theory and probability They show how to apply these mathematical tools to demography patterns of power influence and friendship in social networks Markov chains the evolution and stability of cooperation in human groups chaotic and complex systems and more Introduction to Mathematical Sociology also features numerous exercises throughout and is accompanied by easy to use Mathematica based computer simulations that students can use to examine the effects of changing parameters on model behavior Provides an up to date and self contained introduction to mathematical sociology Explains essential mathematical tools and their applications Includes numerous exercises throughout Features easy to use computer simulations to help Mathematical Sociology Janet Holland, Max David Steuer, 1969 students master concepts Mathematical Sociology James Samuel Coleman (Soziologe), 1964 The Dynamics and Evolution of Social Systems Jürgen Klüver, 2000-07-31 The central topic of this book is the mathematical analysis of social systems understood in the following rather classical way social systems consist of social actors who interact according to specific rules of interactions the dynamics of social systems is then the consequences of these interactions viz the self organization of social systems According to particular demands of their environment social systems are able to behave in an adaptive manner that is they can change their rules of interaction by certain meta rules and thus generate a meta dynamics It is possible to model and analyse mathematically both dynamics and meta dynamics using cellular automata and genetic algorithms These tools allow social systems theory to be carried through as precisely as the theories of natural systems a feat that has not previously been possible Readership Researchers and graduate students in the fields of theoretical sociology and social and general systems theory and other interested scientists No specialised knowledge of mathematics and or computer science is required

Mathematical Ideas and Sociological Theory Thomas J. Fararo,1984 First Published in 1984 Routledge is an imprint of Taylor Francis an informa company Mathematical Sociology Thomas J. Fararo,1973 Models and Methods in Social Network Analysis Peter J. Carrington, John Scott, Stanley Wasserman, 2005-02-07 Models and Methods in Social Network Analysis first published in 2005 presents the most important developments in quantitative models and methods for analyzing social network data that have appeared during the 1990s Intended as a complement to Wasserman and Faust's Social Network Analysis Methods and Applications it is a collection of articles by leading methodologists reviewing advances in

their particular areas of network methods Reviewed are advances in network measurement network sampling the analysis of centrality positional analysis or blockmodelling the analysis of diffusion through networks the analysis of affiliation or two mode networks the theory of random graphs dependence graphs exponential families of random graphs the analysis of longitudinal network data graphical techniques for exploring network data and software for the analysis of social networks

Library of Congress Subject Headings Library of Congress, 2012 **P-Z** Library of Congress. Office for Subject Origins of Sociological Theory Arris Dorsey &, 2018-11-30 The field of sociology itself and Cataloging Policy, 1990 sociological theory by extension is relatively new Both date back to the 18th and 19th centuries The drastic social changes of that period such as industrialization urbanization and the rise of democratic states caused particularly Western thinkers to become aware of society The oldest sociological theories deal with broad historical processes relating to these changes Since then sociological theories have come to encompass most aspects of society including communities organizations and relationships The basic insight of sociology is that human behaviour is largely shaped by the groups to which people belong and by the social interaction that takes place within those groups The main focus of sociology is the group not the individual This compendium offers selections that present special propositions specific concepts or examples of substantive theorizing rather than discussions of integrated systems The present attempt is made to describe the different aspects of sociological theory generally being explained by the social scientists and it is hoped that it will be of great use for all those concerned with sociology Evolution of Social Networks Patrick Doreian, Frans Stokman, 2013-02-01 This book answers the question of whether we can apply evolutionary theories to our understanding of the development of social structures Social networks have increasingly become the focus of many social scientists as a way of analyzing these social structures While many powerful network analytic tools have been developed and applied to a wide range of empirical phenomena understanding the evolution of social organization still requires theories and analyses of social network evolutionary processes Researchers from a variety of disciplines have combined their efforts in what is an indication of some very promising future research and the work represented in this volume provides a basis for a sustained analysis of the evolution of social life

Understanding Media, Today Matteo Ciastellardi, Emanuela Patti, 2011-12-01 Understanding Media Today McLuhan in the Era of Convergence Culture On Science, Inference, Information and Decision-Making A. Szaniawski, 2012-12-06 There are two competing pictures of science One considers science as a system of inferences whereas another looks at science as a system of actions The essays included in this collection offer a view which intends to combine both pictures This compromise is well illustrated by Szaniawski s analysis of statistical inferences It is shown that traditional approaches to the foundations of statistics do not need to be regarded as conflicting with each other Thus statistical rules can be treated as rules of behaviour as well as rules of inference Szaniawski s uniform approach relies on the concept of rationality analyzed from the point of view of decision theory Applications of formal tools to the problem of justice and division of goods shows that the

concept of rationality has a wider significance Audience The book will be of interest to philosophers of science logicians ethicists and mathematicians Social Influence Network Theory Noah E. Friedkin, Eugene C. Johnsen, 2011-04-18 Social influence network theory presents a mathematical formalization of the social process of attitude changes that unfolds in a social network of interpersonal influences This book brings the theory to bear on lines of research in the domain of small group dynamics concerned with changes of group members positions on an issue including the formation of consensus and of settled disagreement via endogenous interpersonal influences in which group members are responding to the displayed positions of the members of the group Social influence network theory advances a dynamic social cognition mechanism in which individuals are weighing and combining their own and others positions on an issue in the revision of their own positions The influence network construct of the theory is the social structure of the endogenous interpersonal influences that are involved in this mechanism With this theory the authors seek to lay the foundation for a better formal integration of classical and current lines of work on small groups in psychological and sociological social psychology Mathematics And Science Ronald E Mickens, 1990-08-23 The purpose of this review volume is to present the opinions of a number of distinguished individuals who have given careful thought as to why mathematics is so unreasonably effective when applied to the analysis of the natural sciences Generating Images of Stratification Thomas J. Fararo, Kenji Kosaka, 2013-03-09 Generating Images of Stratification is a self contained presentation of a theoretical research program that deals with a significant explanatory problem relating to social inequality and that constructs generative theoretical models in doing so In more detail Self contained presentation In respect to the background sociological facts and theoretical ideas and also the formal methods the book provides clear and simple accounts accompanied by examples A theoretical research program The emphasis is on theory development involving a series of theoretical models constructed within a core framework of principles and methods Deals with a significant explanatory problem relating to social inequality We know from research that how people perceive the stratification system of a society depends upon their position in that system So the problem is What process generates this regularity and thereby explains empirical generalizations about the social structuration of images Constructs generative theoretical models The book is an extended presentation of generative theory in sociology a formal method of producing effective theoretical explanations Generating Images of Stratification is of interest to mathematical sociologists and formal theorists in sociology sociologists interested in social stratification methodologists both in sociology and in other fields philosophers of social science and theoretical scientists and mathematicians who are interested in applying their analytical tools to social science topics The Social Science Encyclopedia Adam Kuper, 2003-12-16 The Social Science Encyclopedia first published in 1985 to acclaim from social scientists librarians and students was thoroughly revised in 1996 when reviewers began to describe it as a classic This third edition has been radically recast Over half the entries are new or have been entirely rewritten and most of the balance have been substantially revised Written by an

international team of contributors the Encyclopedia offers a global perspective on the key issues within the social sciences Some 500 entries cover a variety of enduring and newly vital areas of study and research methods Experts review theoretical debates from neo evolutionism and rational choice theory to poststructuralism and address the great questions that cut across the social sciences What is the influence of genes on behaviour What is the nature of consciousness and cognition What are the causes of poverty and wealth What are the roots of conflict wars revolutions and genocidal violence This authoritative reference work is aimed at anyone with a serious interest in contemporary academic thinking about the individual in society **Contemporary Social Psychological Theories** Peter James Burke, 2006 This text presents the most important and influential social psychological theories and research programs in contemporary sociology Original chapters by the scholars who initiated and developed these theoretical perspectives provide full descriptions of each theory its background development and future The first four chapters cover general approaches organized around fundamental principles and issues symbolic interaction social exchange distributive justice and rational choice. The following chapters focus on specific research programs and theories examining identity affect comparison processes power and dependence social exchange status construction and legitimacy A concluding chapter provides an analysis of and commentary on the state of the theoretical programs in sociological social psychology Contributors Peter J Burke Joseph Berger Coye Cheshire Karen S Cook Pamela Emanuelson Alexandra Gerbasi Karen A Hegtvedt Michael A Hogg Guillermina Jasso Edward J Lawler Michael W Macy George J McCall Linda D Molm Cecilia L Ridgeway Dawn T Robinson Lynn Smith Lovin Jan E Stets Jonathan Library of Congress Subject Headings Library of H Turner Murray Webster Jr David Willer and Morris Zelditch Jr Congress. Cataloging Policy and Support Office, 2009 **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy, 1992

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