

# Advanced topic: What makes a fair election?

Ellenberg's book goes further:

- Ellenberg explains parts of a mathematical theory of elections created by the French mathematician Condorcet in the late 1700s.

Condorcet started with an axiom:

- If the majority of voters prefer candidate A to candidate B, then candidate B cannot be the people's choice.

Condorcet then explored how to create a voting system that would satisfy this axiom...

- He tried but failed to find a voting system that would work...
- and in 1951, the mathematician Kenneth Arrow proved that even with a weaker set of axioms, there would be paradoxes.

Conclusion: There Is No Such Thing as Public Opinion

# Mathematical Theory Of Elections

**Joseph Malkevitch**



## **Mathematical Theory Of Elections:**

**The Mathematical Theory of Elections** Joseph Malkevitch, 1985      **Mathematical Theory of Democracy** Andranik Tangian, 2013-07-31 The mathematical theory of democracy deals with selection of representatives who make decisions on behalf of the whole society In this book the notion of representativeness is operationalized with the index of popularity the average percentage of the population whose opinion is represented on a number of issues and the index of universality the frequency of cases when the opinion of a majority is represented These indices are applied to evaluate and study the properties of single representatives e g president and representative bodies e g parliament magistrate cabinet jury coalition To bridge representative and direct democracy an election method is proposed that is based not on voting but on indexing candidates with respect to the electorate s political profile In addition societal and non societal applications are considered

**The Mathematical Theory of Elections** Joseph Malkevitch, Gary W. Froelich, High School Mathematics and Its Applications Project (HiMAP), Consortium for Mathematics and Its Applications (U.S.), 1989      **Voting Made Easy** Lewis Lum, David C. Kurtz, 1975\*      The Theory of Committees and Elections Duncan Black, 2012-12-06 THIS book or some related work has occupied me spasmodically over rather a long period in fact ever since I listened to the class lectures of Professor A K White on the possibility of forming a pure science of Politics Mter an earlier version of Part I had failed to obtain publication in 1947 some chapters appeared as articles and I am obliged to the editors of the journals mentioned below for permission to reprint this material sometimes in a modified form When I first attempted publication I was unacquainted with the earlier history of the theory and indeed did not even know that it had a history and the later additions to the book have largely been by way of writing the present Part II This historical section does not include the important recent work Social Ochoice and Individual Values 1951 of Professor Kenneth J Arrow but it does include all the mathematical work on committees and elections appearing before the middle of this century which has come to my notice although the last item in it is dated 1907 No doubt there is much important material which I have failed to see The theorizing of the book grew out of a reading of the English political philosophers and of the Italian writers on Public Finance At a very early stage I was helped to find the general lines of development by discussion with my colleague Professor Ronald H      **The Theory of Committees and Elections by Duncan Black and Committee Decisions with Complementary Valuation by Duncan Black and R.A. Newing** Iain S. McLean, Alistair McMillan, Burt L. Monroe, 2013-03-09 R H Coase Duncan Black was a close and dear friend A man of great simplicity un worldly modest diffident with no pretensions he was devoted to scholarship In his single minded search for the truth he is an example to us all Black s first degree at the University of Glasgow was in mathematics and physics Mathematics as taught at Glasgow seems to have been designed for engineers and did not excite him and he switched to economics which he found more congenial But it was not in a lecture in economics but in one on politics that he found his star One lecturer A K White discussed the possibility of constructing a pure science of politics This question caught

his imagination perhaps because of his earlier training in physics and it came to absorb his thoughts for the rest of his life But almost certainly nothing would have come of it were it not for his appointment to the newly formed Dundee School of Economics where the rest of the teaching staff came from the London School of Economics At Glasgow economics as in the time of Adam Smith was linked with moral philosophy At Dundee Black was introduced to the analytical x The Theory o Committees and Elections approach dominant at the London School of Economics This gave him the approach he used in his attempt to construct a pure science of politics

*The Mathematics of Decisions, Elections, and Games* Karl-Dieter Crisman, Michael A. Jones, 2014-08-29 This volume contains the proceedings of two AMS Special Sessions on The Mathematics of Decisions Elections and Games held January 4 2012 in Boston MA and January 11 12 2013 in San Diego CA Decision theory voting theory and game theory are three intertwined areas of mathematics that involve making optimal decisions under different contexts Although these areas include their own mathematical results much of the recent research in these areas involves developing and applying new perspectives from their intersection with other branches of mathematics such as algebra representation theory combinatorics convex geometry dynamical systems etc The papers in this volume highlight and exploit the mathematical structure of decisions elections and games to model and to analyze problems from the social sciences

*The Spatial Theory of Voting* James M. Enelow, Melvin J. Hinich, 1984-04-27 This book provides an introduction to an important approach to the study of voting and elections the spatial theory of voting In contrast to the social psychological approach to studying voting behaviour the spatial theory of voting is premised on the idea of self interested choice Voters cast votes on the basis of their evaluation of the candidates or policy alternatives competing for their vote Candidates fashion their appeals to the voters in an effort to win votes The spatial theory provides explicit definitions for these behavioural assumptions to determines the form that self interested behaviour will take The consequences of this behaviour for the type of candidate or policy that voters will select is the major focus of the theory There is a twofold purpose to this work The first is to provide an elementary but rigorous introduction to an important body of political science research The second is to design and test a spatial theory of elections that provides insights into the nature of election contests The book will appeal to a wide audience since the mathematics is kept to an accessible level

**Social Choice and the Mathematics of Manipulation** Alan D. Taylor, 2005-05-09 Honesty in voting it turns out is not always the best policy Indeed in the early 1970s Allan Gibbard and Mark Satterthwaite building on the seminal work of Nobel laureate Kenneth Arrow proved that with three or more alternatives there is no reasonable voting system that is non manipulable voters will always have an opportunity to benefit by submitting a disingenuous ballot The ensuing decades produced a number of theorems of striking mathematical naturality that dealt with the manipulability of voting systems This 2005 book presents many of these results from the last quarter of the twentieth century especially the contributions of economists and philosophers from a mathematical point of view with many new proofs The presentation is almost completely self contained

and requires no prerequisites except a willingness to follow rigorous mathematical arguments Mathematics students as well as mathematicians political scientists economists and philosophers will learn why it is impossible to devise a completely unmanipulable voting system      Mathematical Analyses of Decisions, Voting and Games Michael A. Jones, David McCune, Jennifer M. Wilson, 2024-03-25 This volume contains the proceedings of the virtual AMS Special Session on Mathematics of Decisions Elections and Games held on April 8 2022 Decision theory voting theory and game theory are three related areas of mathematics that involve making optimal decisions in different contexts While these three areas are distinct much of the recent research in these fields borrows techniques from other branches of mathematics such as algebra combinatorics convex geometry logic representation theory etc The papers in this volume demonstrate how the mathematics of decisions elections and games can be used to analyze problems from the social sciences      **Making Democracy Fair: The mathematics of voting and apportionment** Michael de Villiers, Leslie Johnson Nielsen, 2012-09-23 How do you know if an election is fair Or if the result truly represents the choice of the people In Making Democracy Fair students use elementary mathematical methods to explore different kinds of ballots election decision procedures and apportionment methods In the first half of the book students are introduced to a variety of alternatives to the winner take all strategy used in most elections Determining which strategy is fairest is usually a very difficult question to answer and many times the strategy chosen determines the winner In the second part of the book students investigate different methods of apportionment How many representatives from each state will there be in the United States House of Representatives How do countries using a proportional representation decide on the number of representatives from each political party to be seated in their government bodies      **Probabilistic Voting Theory** Peter J. Coughlin, 1992-10-30 Coughlin provides the most comprehensive and integrated analysis of probabilistic voting models available also developing further his important contributions Probabilistic voting theory is the mathematical theory of candidate behavior in or in anticipation of elections in which candidates are unsure what voters preferences will be on all or most issues which is true of most governmental elections The theory asks first whether optimal candidate strategies can be determined given uncertainty about voter preferences and if so what exactly those strategies are given various circumstances It allows the theorist to predict what public policies will be supported and what laws passed by elected officials when in office and what positions will be taken by them when running in elections One of the leading contributors to this rapidly developing literature which is at the leading edge of public choice theory Coughlin both reviews the existing literature and presents new results that unify and extend developments in the theory that have been scattered in the literature      **Institutional Design and Voting Power in the European Union** Karol Zyczkowski, 2016-05-23 Leading global experts in the field of politics and mathematics bring forth key insights on how voting power should be allocated between EU member states and what the policy consequences are of any given institutional design Close attention is paid to the practical implications of decision making rules the nature and

distribution of power and the most equitable ways to represent the preoccupations of European citizens both in the Council and European Parliament Highly theoretical and methodologically advanced this volume is set to enrich the debate on the future of the EU's institutional design A valuable source of information to scholars of political science European studies and law as well as to people working on game theory theory of voting and in general applications of mathematics to social science

Decisions and Elections Donald Saari, 2001-10-22 It is not uncommon to be frustrated by the outcome of an election or a decision in voting law economics engineering and other fields Does this bad result reflect poor data or poorly informed voters Or does the disturbing conclusion reflect the choice of the decision election procedure Nobel Laureate Kenneth Arrow's famed theorem has been interpreted to mean no decision procedure is without flaws Similarly Nobel Laureate Amartya Sen dashes hope for individual liberties by showing their incompatibility with societal needs This highly accessible book offers a new different interpretation and resolution of Arrow's and Sen's theorems Using simple mathematics it shows that these negative conclusions arise because in each case some of their assumptions negate other crucial assumptions Once this is understood not only do the conclusions become expected but a wide class of other phenomena can also be anticipated

Judgment Aggregation Davide Grossi, Gabriella Pigozzi, 2022-06-01 Judgment aggregation is a mathematical theory of collective decision making It concerns the methods whereby individual opinions about logically interconnected issues of interest can or cannot be aggregated into one collective stance Aggregation problems have traditionally been of interest for disciplines like economics and the political sciences as well as philosophy where judgment aggregation itself originates from but have recently captured the attention of disciplines like computer science artificial intelligence and multi agent systems Judgment aggregation has emerged in the last decade as a unifying paradigm for the formalization and understanding of aggregation problems Still no comprehensive presentation of the theory is available to date This Synthesis Lecture aims at filling this gap presenting the key motivations results abstractions and techniques underpinning it Table of Contents Preface Acknowledgments Logic Meets Social Choice Theory Basic Concepts Impossibility Coping with Impossibility Manipulability Aggregation Rules Deliberation Bibliography Authors Biographies Index

### **The History Of Game Theory, Volume 1**

Mary-Ann Dimand, Robert W Dimand, 1996-08-08 This first volume of three examines the methodological origins of game theory up to the Second World War It adds to the understanding of game theory's contentious roots and offers insights into modern applications of the theory

Advances in the Spatial Theory of Voting James M. Enelow, Melvin J. Hinich, 1990-06-29 This volume brings together eight original essays designed to provide an overview of developments in spatial voting theory in the past ten years The topics covered are spatial competition with possible entry by new candidates the heresthetical manipulation of vote outcomes candidates with policy preferences experimental testing of spatial models probabilistic voting voting on alternatives with predictive power elections with more than two candidates under different election systems and agenda setting behavior in voting Leading scholars in these areas summarize the major results of their own and others work

providing self contained discussions that will apprise readers of important recent advances      **Voting Paradoxes and How to Deal with Them** Hannu Nurmi, 2013-04-17 Voting paradoxes are unpleasant surprises encountered in voting Typically they suggest that something is wrong with the way in which individual opinions are being expressed or processed in voting The outcomes are bizarre unfair or otherwise implausible given the expressed opinions of voters Voting paradoxes have an important role in the history of social choice theory The founding fathers of the theory Marquis de Condorcet and Jean Charles de Borda were keenly aware of some of them Indeed much of the work of these and other forerunners of the modern social choice theory dealt with ways of avoiding paradoxes related to voting One of the early paradoxes viz that bearing the name of Condorcet has subsequently gained such a prominent place in the literature that it is sometimes called the paradox of voting One of the aims of the present work is to show that Condorcet's is but one of many paradoxes of voting Some of these are pretty closely interrelated making it meaningful to classify them This is the second main aim of this book The third objective is to suggest ways of dealing with paradoxes Since voting is and has always been an essential instrument of democratic rule it is of some interest to find out how voting paradoxes are being dealt with by past and present methods of voting Of even greater interest is to find ways of minimizing the probability of occurrence of various paradoxes By their very nature some paradoxes are unavoidable      *A Unified Theory of Voting* Samuel Merrill, Bernard Grofman, 1999-09-13 Professors Merrill and Grofman develop a unified model that incorporates voter motivations and assesses its empirical predictions for both voter choice and candidate strategy in the United States Norway and France The analyses show that a combination of proximity direction discounting and party ID are compatible with the mildly but not extremely divergent policies that are characteristic of many two party and multiparty electorates All of these motivations are necessary to understand the linkage between candidate issue positions and voter preferences      *The New Palgrave Dictionary of Economics* , 2016-05-18 The award winning The New Palgrave Dictionary of Economics 2nd edition is now available as a dynamic online resource Consisting of over 1 900 articles written by leading figures in the field including Nobel prize winners this is the definitive scholarly reference work for a new generation of economists Regularly updated This product is a subscription based product

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