

Zero-Sum Game

['zɪr-(.)ō-'səm 'gɑːm]

A situation, often cited in game theory, in which one person's gain is equivalent to another's loss, so the net change in wealth or benefit is zero.



Zero Sum Games

Winton E. Williams



Zero Sum Games:

Two-Person Zero-Sum Games Alan Washburn, 2013-11-29 Two person zero sum game theory deals with situations that are perfectly competitive there are exactly two decision makers for whom there is no possibility of cooperation or compromise It is the most fundamental part of game theory and the part most commonly applied There are diverse applications to military battles sports parlor games economics and politics The theory was born in World War II and has by now matured into a significant and tractable body of knowledge about competitive decision making The advent of modern powerful computers has enabled the solution of many games that were once beyond computational reach Two Person Zero Sum Games 4th Ed offers an up to date introduction to the subject especially its computational aspects Any finite game can be solved by the brute force method of enumerating all possible strategies and then applying linear programming The trouble is that many interesting games have far too many strategies to enumerate even with the aid of computers After introducing ideas terminology and the brute force method in the initial chapters the rest of the book is devoted to classes of games that can be solved without enumerating every strategy Numerous examples are given as well as an extensive set of exercises Many of the exercises are keyed to sheets of an included Excel workbook that can be freely downloaded from the SpringerExtras website This new edition can be used as either a reference book or as a textbook *Two-person Zero-sum Games* Alan R. Washburn, 2003 *A First Course on Zero-Sum Repeated Games* Sylvain Sorin, 2002-03-07 This volume aims to present the basic results in the theory of two person zero sum repeated games including stochastic games and repeated games with incomplete information It is intended for graduate students with no previous knowledge of the field

Silverman's Game Gerald A. Heuer, Ulrike Leopold-Wildburger, 2012-12-06 The structure of a Silverman game can be explained very quickly Each of two players independently selects a number out of a prede terminated set not necessarily the same one for both of them The higher number wins unless it is at least k times as high as the other one if this is the case the lower number wins The game ends in a draw if both numbers are equal k is a constant greater than 1 The simplicity of the rules stimulates the curiosity of the the orist Admittedly Silverman games do not seem to have a direct applied significance but nevertheless much can be learnt from their study This book succeeds to give an almost complete overview over the structure of optimal strategies and it reveals a surprising wealth of interesting detail A field like game theory does not only need research on broad questions and fundamental issues but also specialized work on re stricted topics Even if not many readers are interested in the subject matter those who are will appreciate this monograph *Games, Information, and Politics* Scott Gates, Brian D. Humes, 1997-02-07 DIVExplains how game theory can be used to explain political phenomena div Games, Decisions, and Markets Yasuhiro Sakai, 2024-07-01 This book critically discusses the historical backgrounds and new developments of the theories of games decisions and markets with many possible applications to social and economic problems Consisting of three connected parts the book sheds new light on the role of merchants in the market

economy under conditions of risk and uncertainty Part I begins with the question of why and how John von Neumann and Oskar Morgenstern did joint work in game theory namely the theoretical study of strategic interactions among several decision makers The duel between Sherlock Holmes and Professor Moriarty in Conan Doyle s famous detective story is recalled as a great inducement to Neumann and Morgenstern to invent zero sum two person games More general non zero sum games and associated Nash solutions are then discussed in relation to the generation gap problem between a young couple and an elderly couple Part II explores a set of very fundamental problems of individual decision making The two famous axioms of revealed preference Samuelson s weak axiom and Houthakker s axiom are skillfully connected and empirically reevaluated by the introduction of certain regularity conditions The revealed preference approach is then extended from the original commodity space to the dual price space Such dual treatment in microeconomics is further applied to the theory of cost and production with the decomposition of the total factor price effect into the substitution and scale effects Part III turns the reader s attention to the interdependence of several markets The almost forgotten Hicks Morishima approach is newly revived with graphical illustrations of traded goods The well known Jones Kemp approach to international trade is boldly expanded into the world of risk and uncertainty Some striking results in comparative static analysis are derived with favorable implications for the real world

Theory of Games and Economic Behavior (Commemorative Edition) John von Neumann, Oskar Morgenstern, 2007-03-19 First published in 1944 this book co written by an economist a mathematician conceived a groundbreaking theory of economic social organisation based on a theory of games of strategy The result was a revolution in economics game theory has since emerged as a major tool of analysis in many other fields

Coalition and Connection in Games Silviu Giasu, Mircea Malitza, 2014-05-18 Coalition and Connection in Games Problems of Modern Game Theory using Methods Belonging to Systems Theory and Information Theory focuses on coalition formation and on connections occurring in games noting the use of mathematical models in the evaluation of processes involved in games The book first takes a look at the process of strategy in playing games in which the conditional choices of players are noted The sequence of decisions during the playing of games and observance of the rules are emphasized The text also ponders on the mathematical tool of game theory in which the differences in the playing of games is seen as influenced by the number of players involved The manuscript reviews how the von Neumann Morgenstern theory is used in measuring the conditions on how games are played The theory points out that games with more than two players call for the introduction of concepts and an instrument in comparison with two person zero sum games The text also underscores the tendency of players to obtain a large share of the payoff whether playing by themselves or participating in coalitions The book is a fine reference for readers interested in the analysis of game theories

Stochastic Teams, Games, and Control under Information Constraints Serdar Yüksel, Tamer Başar, 2024-06-19 This monograph presents a mathematically rigorous and accessible treatment of the interaction between information decision control and probability in single agent and

multi agent systems The book provides a comprehensive and unified theory of information structures for stochastic control stochastic teams stochastic games and networked control systems Part I of the text is concerned with a general mathematical theory of information structures for stochastic teams leading to systematic characterizations and classifications geometric and topological properties implications on existence approximations and relaxations their comparison and regularity of optimal solutions in information Information structures in stochastic games are then considered in Part II and the dependence of equilibrium solutions and behavior on information is demonstrated Part III studies information design through information theory in networked control systems both linear and nonlinear and discusses optimality and stability criteria Finally Part IV introduces information and signaling games under several solution concepts with applications to prior mismatch cost mismatch and privacy reputation games and jamming This text will be a valuable resource for researchers and graduate students interested in control theory information theory statistics game theory and applied mathematics Readers should be familiar with the basics of linear systems theory stochastic processes and Markov chains

Handbook of Game Theory with Economic Applications: Zero-sum two-person games Robert J. Aumann, Sergiu Hart, 1992

Some Experimental Non-zero Sum Games with Lack of Information about the Rules Martin Shubik, YALE UNIV NEW HAVEN CT COWLES FOUNDATION FOR RESEARCH IN ECONOMICS., 1961

THE SIMPLEST TYPE OF GAMES ARE TREATED AND THE MODIFICATIONS OF THE VON NEUMANN AND MORGENSTERN ASSUMPTIONS ARE NOTED WHEN THE GAMES ARE USED FOR EXPERIMENTAL PURPOSES THERE ARE TWO TYPES OF REPRESENTATION OF A GAME EMPLOYED BY VON NEUMANN AND MORGENSTERN THE EXTENSIVE FORM AND THE NORMALIZED FORM THE FIRST CAN BE DISPLAYED BY MEANS OF A GAME TREE AND THE SECOND BY MEANS OF A PAYOFF MATRIX A SIMPLE EXAMPLE SERVES TO INDICATE THE DIFFERENCE

On Repeated Zero-sum Games with Incomplete Information and Asymptotically Bounded Values Fedor Sandomirskiy, 2016

The SAGE Encyclopedia of Research Design Bruce B. Frey, 2022-01-27

The SAGE Encyclopedia of Research Design maps out how one makes decisions about research design interprets data and draws valid inferences undertakes research projects in an ethical manner and evaluates experimental design strategies and results From A to Z this four volume work covers the spectrum of research design strategies and topics including among other things fundamental research design principles ethics in the research process quantitative versus qualitative and mixed method designs completely randomized designs multiple comparison tests diagnosing agreement between data and models fundamental assumptions in analysis of variance factorial treatment designs complete and incomplete block designs Latin square and related designs hierarchical designs response surface designs split plot designs repeated measures designs crossover designs analysis of covariance statistical software packages and much more Research design with its statistical underpinnings can be especially daunting for students and novice researchers At its heart research design might be described simply as a formalized approach toward problem solving thinking and acquiring knowledge the

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