Georgios Chalkiadakis · Edith Elkind · Michael Wooldridge

Computational Aspects of Cooperative Game Theory

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Jesús Mario Bilbao

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    Computational Aspects of Cooperative Game Theory Georgios Chalkiadakis,Edith Elkind,Michael Wooldridge,2022-05-31 Cooperative game theory is a branch of micro economics that studies the behavior of self interested agents in strategic settings where binding agreements among agents are possible Our aim in this book is to present a survey of work on the computational aspects of cooperative game theory We begin by formally defining transferable utility games in characteristic function form and introducing key solution concepts such as the core and the Shapley value We then discuss two major issues that arise when considering such games from a computational perspective identifying compact representations for games and the closely related problem of efficiently computing solution concepts for games We survey several formalisms for cooperative games that have been proposed in the literature including for example cooperative games defined on networks as well as general compact representation schemes such as MC nets and skill games As a detailed case study we consider weighted voting games a widely used and practically important class of cooperative games that inherently have a natural compact representation We investigate the complexity of solution concepts for such games and generalizations of them We briefly discuss games with non transferable utility and partition function games We then overview algorithms for identifying welfare maximizing coalition structures and methods used by rational agents to form coalitions even under uncertainty including bargaining algorithms We conclude by considering some developing topics applications and future research directions   **Game Theory And Mechanism Design** Y Narahari,2014-03-13 This book offers a self sufficient treatment of a key tool game theory and mechanism design to model analyze and solve centralized as well as decentralized design problems involving multiple autonomous agents that interact strategically in a rational and intelligent way The contents of the book provide a sound foundation of game theory and mechanism design theory which clearly represent the science behind traditional as well as emerging economic applications for the society The importance of the discipline of game theory has been recognized through numerous Nobel prizes in economic sciences being awarded to game theorists including the 2005 2007 and 2012 prizes The book distills the marvelous contributions of these and other celebrated game theorists and presents it in a way that can be easily understood even by senior undergraduate students A unique feature of the book is its detailed coverage of mechanism design which is the art of designing a game among strategic agents so that a social goal is realized in an equilibrium of the induced game Another feature is a large number of illustrative examples that are representative of both classical and modern applications of game theory and mechanism design The book also includes informative biographical sketches of game theory legends and is specially customized to a general engineering audience After a thorough reading of this book readers would be able to apply game theory and mechanism design in a principled and mature way to solve relevant problems in computer science esp artificial intelligence machine learning computer engineering operations research industrial engineering and microeconomics   *Game Theory and Machine*

Learning for Cyber Security Charles A. Kamhoua,Christopher D. Kiekintveld,Fei Fang,Quanyan Zhu,2021-09-15 GAME THEORY AND MACHINE LEARNING FOR CYBER SECURITY Move beyond the foundations of machine learning and game theory in cyber security to the latest research in this cutting edge field In Game Theory and Machine Learning for Cyber Security a team of expert security researchers delivers a collection of central research contributions from both machine learning and game theory applicable to cybersecurity The distinguished editors have included resources that address open research questions in game theory and machine learning applied to cyber security systems and examine the strengths and limitations of current game theoretic models for cyber security Readers will explore the vulnerabilities of traditional machine learning algorithms and how they can be mitigated in an adversarial machine learning approach The book offers a comprehensive suite of solutions to a broad range of technical issues in applying game theory and machine learning to solve cyber security challenges Beginning with an introduction to foundational concepts in game theory machine learning cyber security and cyber deception the editors provide readers with resources that discuss the latest in hypergames behavioral game theory adversarial machine learning generative adversarial networks and multi agent reinforcement learning Readers will also enjoy A thorough introduction to game theory for cyber deception including scalable algorithms for identifying stealthy attackers in a game theoretic framework honeypot allocation over attack graphs and behavioral games for cyber deception An exploration of game theory for cyber security including actionable game theoretic adversarial intervention detection against advanced persistent threats Practical discussions of adversarial machine learning for cyber security including adversarial machine learning in 5G security and machine learning driven fault injection in cyber physical systems In depth examinations of generative models for cyber security Perfect for researchers students and experts in the fields of computer science and engineering Game Theory and Machine Learning for Cyber Security is also an indispensable resource for industry professionals military personnel researchers faculty and students with an interest in cyber security

Handbook of Computational Social Choice Felix Brandt,Vincent Conitzer,Ulle Endriss,Jérôme Lang,Ariel D. Procaccia,2016-04-25 The rapidly growing field of computational social choice at the intersection of computer science and economics deals with the computational aspects of collective decision making This handbook written by thirty six prominent members of the computational social choice community covers the field comprehensively Chapters devoted to each of the field s major themes offer detailed introductions Topics include voting theory such as the computational complexity of winner determination and manipulation in elections fair allocation such as algorithms for dividing divisible and indivisible goods coalition formation such as matching and hedonic games and many more Graduate students researchers and professionals in computer science economics mathematics political science and philosophy will benefit from this accessible and self contained book **Statistical Relational Artificial Intelligence** Luc De Raedt,Kristian Kersting,Sriraam Natarajan,David Poole,2016-03-24 An intelligent agent interacting with the real world will encounter individual people courses test results

drugs prescriptions chairs boxes etc and needs to reason about properties of these individuals and relations among them as well as cope with uncertainty Uncertainty has been studied in probability theory and graphical models and relations have been studied in logic in particular in the predicate calculus and its extensions This book examines the foundations of combining logic and probability into what are called relational probabilistic models It introduces representations inference and learning techniques for probability logic and their combinations The book focuses on two representations in detail Markov logic networks a relational extension of undirected graphical models and weighted first order predicate calculus formula and Problog a probabilistic extension of logic programs that can also be viewed as a Turing complete relational extension of Bayesian networks   *Artificial Intelligence and Games* Georgios N. Yannakakis,Julian Togelius,2018-02-17 This is the first textbook dedicated to explaining how artificial intelligence AI techniques can be used in and for games After introductory chapters that explain the background and key techniques in AI and games the authors explain how to use AI to play games to generate content for games and to model players The book will be suitable for undergraduate and graduate courses in games artificial intelligence design human computer interaction and computational intelligence and also for self study by industrial game developers and practitioners The authors have developed a website http www gameaibook org that complements the material covered in the book with up to date exercises lecture slides and reading   *Artificial Intelligence & Games* Georgi Togeli,2024-09-03 As has been pointed out by several industrial game AI developers the lack of behavioral modularity across games and in game tasks is detrimental for the development of high quality AI 605 171 An increasingly popular method for ad hoc behavior authoring that eliminates the modularity limitations of FSMs and BTs is the utility based AI approach which can be used for the design of control and decision making systems in games 425 557 Following this approach instances in the game get assigned a particular utility function that gives a value for the importance of the particular instance 10 169 For instance the importance of an enemy being present at a particular distance or the importance of an agent s health being low in this particular context Given the set of all utilities available to an agent and all the options it has utility based AI decides which is the most important option it should consider at this moment 426 The utility based approach is grounded in the utility theory of economics and is based on utility function design The approach is similar to the design of membership functions in a fuzzy set A utility can measure anything from observable objective data e g enemy health to subjective notions such as emotions mood and threat The various utilities about possible actions or decisions can be aggregated into linear or non linear formulas and guide the agent to take decisions based on the aggregated utility The utility values can be checked every n frames of the game So while FSMs and BTs would examine one decision at a time utility based AI architectures   *Economics and Computation* Jörg Rothe,2024-06-28 This textbook connects three vibrant areas at the interface between economics and computer science algorithmic game theory computational social choice and fair division It thus offers an interdisciplinary treatment of collective decision making from an economic and computational perspective Part

I introduces to algorithmic game theory focusing on both noncooperative and cooperative game theory Part II introduces to computational social choice focusing on both preference aggregation voting and judgment aggregation Part III introduces to fair division focusing on the division of both a single divisible resource cake cutting and multiple indivisible and unshareable resources multiagent resource allocation In all these parts much weight is given to the algorithmic and complexity theoretic aspects of problems arising in these areas and the interconnections between the three parts are of central interest

<u>Non-cooperative Aspects of Cooperative Game Theory and Related Computational Problems</u> Stefan M. Zumsteg,1995

<u>Cooperative Game Theory Tools in Coalitional Control Networks</u> Francisco Javier Muros,2019-04-24 This book analyzes coalitional control schemes by incorporating concepts of cooperative game theory into a distributed control framework It considers a networked architecture where the nodes are the agents and the edges are their communication links and either the agents or the links are established as the players of cooperative games related to the cost function of the coalitional schemes The book discusses various cooperative game theory tools that are used to measure analyze the players features impose constraints on them provide alternative methods of game computation detect critical players inside the control scheme and perform system partitioning of large scale systems such as the Barcelona drinking water network which is described in a case study   *Aspects of Cooperative Game Theory and Its Applications to Economics* Haralambos D. Sourbis,1984   <u>Algorithmic Game Theory</u> Berthold Vöcking,2013-10-09 This book constitutes the proceedings of the 6th International Symposium on Algorithmic Game Theory SAGT 2013 held in Aachen Germany in October 2013 The 25 papers presented in this volume were carefully reviewed and selected from 65 submissions They cover various important aspects of algorithmic game theory such as solution concepts in game theory efficiency of equilibria and the price of anarchy computational aspects of equilibria and game theoretical measures repeated games and convergence of dynamics evolution and learning in games coordination and collective action network games and graph theoretic aspects of social networks voting and social choice as well as algorithmic mechanism design   **Non-cooperative Aspects of Cooperative Game Theory and Related Computional Problems** Stefan M. Zumsteg,1995   **Essay in Cooperative Games** Gianfranco Gambarelli,2013-06-05 Essays on Cooperative Games collates selected contributions on Cooperative Games The papers cover both theoretical aspects Coalition Formation Values Simple Games and Dynamic Games and applied aspects in Finance Production Transportation and Market Games A contribution on Minimax Theorem by Ken Binmore and a brief history of early Game Theory by Gianfranco Gambarelli and Guillermo Owen are also enclosed   **Cooperative Games on Combinatorial Structures** Jesús Mario Bilbao,2012-12-06 The aim of Cooperative Games on Combinatorial Structures is to analyze conflict situations in which two or more players can make coalitions and obtain prizes and penalties This approach to situations of competition and cooperation was given in the seminal treatise by John von Neumann and Oskar Morgenstern Theory of Games and Economic Behavior Cooperative game theory has succeeded in providing many applications of game

theory In this volume games defined on combinatorial structures will be analyzed i e a set system over a set of players In many situations the author will work in a closure space Examples of closure operators are the spanning operator of linear algebra and all convex hull operators Chapters 1 4 constitute a review of mathematical concepts from Cooperative Game Theory Graph Theory Linear and Integer Programming Combinatorial Optimization Discrete Convex Analysis and Computational Complexity The table of contents is a short guide to the topics and methods covered in this book In Chapters 11 and 12 several notebooks are presented with the system Mathematica by Wolfram in the contexts of the packages DiscreteMath Skiena and Cooperative Carter There will also be found in the book several research projects These are intended to offer new ideas that the reader should consider with caution This book will be of interest to graduate students with some experience in game theory or mathematical programming and professional researchers in game theory operational research and its applications in economic theory and the political and social sciences In addition it will be especially useful for professionals who are interested in models for understanding and managing conflicts management and operational research scientists political and military scientists and professional negotiators **Algorithmic Game Theory** Maria Serna,2012-09-15 This book constitutes the refereed proceedings of the 5th International Symposium on Algorithmic Game Theory SAGT 2012 held in Barcelona Spain in October 2012 The 22 revised full papers presented together with 2 invited lectures were carefully reviewed and selected from 65 submissions The papers present original research at the intersection of Algorithms and Game Theory and address various current topics such as solution concepts in game theory efficiency of equilibria and price of anarchy complexity classes in game theory computational aspects of equilibria computational aspects of fixed point theorems repeated games evolution and learning in games convergence of dynamics coalitions coordination and collective action reputation recommendation and trust systems graph theoretic aspects of social networks network games cost sharing algorithms and analysis computing with incentives algorithmic mechanism design computational social choice decision theory and pricing auction algorithms and analysis economic aspects of distributed computing internet economics and computational advertising **Introduction to the Theory of Cooperative Games** Bezalel Peleg,Peter Sudhölter,2007-08-15 This book systematically presents the main solutions of cooperative games the core bargaining set kernel nucleolus and the Shapley value of TU games as well as the core the Shapley value and the ordinal bargaining set of NTU games The authors devote a separate chapter to each solution wherein they study its properties in full detail In addition important variants are defined or even intensively analyzed **Models in Cooperative Game Theory** Rodica Branzei,Dinko Dimitrov,Stef Tijs,2005-11-15 This book investigates the classical model of cooperative games with transfer able utility TU games and models in which the players have the possibility to cooperate partially namely fuzzy and multichoice games In a crisp game the agents are either fully involved or not involved at all in cooperation with some other agents while in a fuzzy game players are allowed to cooperate with infinitely many different participation levels varying from

non cooperation to full cooperation A multichoice game describes an intermediate case in which each player may have a fixed number of activity levels Part I of the book is devoted to the most developed model in the theory of cooperative games that of a classical TU game with crisp coalitions which we refer to as crisp game along the book It presents basic notions solutions concepts and classes of cooperative crisp games in such a way that allows the reader to use this part as a reference toolbox when studying the corresponding concepts from the theory of fuzzy games Part II and from the theory of multichoice games Part III The work on this book started while we were research fellows at ZiF Biele feld for the project Procedural Approaches to Conflict Resolution 2002 **A Course on Cooperative Game Theory** Satya R. Chakravarty,Manipushpak Mitra,Palash Sarkar,2015-02-09 Deals with real life situations where objectives of the participants are partially cooperative and partially conflicting **Cooperative Game Theory and Applications** Imma Curiel,1997-03-31 In this book applications of cooperative game theory that arise from combinatorial optimization problems are described It is well known that the mathematical modeling of various real world decision making situations gives rise to combinatorial optimization problems For situations where more than one decision maker is involved classical combinatorial optimization theory does not suffice and it is here that cooperative game theory can make an important contribution If a group of decision makers decide to undertake a project together in order to increase the total revenue or decrease the total costs they face two problems The first one is how to execute the project in an optimal way so as to increase revenue The second one is how to divide the revenue attained among the participants It is with this second problem that cooperative game theory can help The solution concepts from cooperative game theory can be applied to arrive at revenue allocation schemes In this book the type of problems described above are examined Although the choice of topics is application driven it also discusses theoretical questions that arise from the situations that are studied For all the games described attention will be paid to the appropriateness of several game theoretic solution concepts in the particular contexts that are considered The computation complexity of the game theoretic solution concepts in the situation at hand will also be considered

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