Kevin Leyton-Brown · Yoav Shoham

ESSENTIALS OF GAME THEORY

A Concise, Multidisciplinary Introduction

Springer

Essentials Of Game Theory A Concise Multidisciplinary Introduction

Peipei Pang

Essentials Of Game Theory A Concise Multidisciplinary Introduction:

   Essentials of Game Theory Kevin Leyton-Brown,Yoav Shoham,2008-07-08 Game theory is the mathematical study of interaction among independent self interested agents The audience for game theory has grown dramatically in recent years and now spans disciplines as diverse as political science biology psychology economics linguistics sociology and computer science among others What has been missing is a relatively short introduction to the field covering the common basis that anyone with a professional interest in game theory is likely to require Such a text would minimize notation ruthlessly focus on essentials and yet not sacrifice rigor This Synthesis Lecture aims to fill this gap by providing a concise and accessible introduction to the field It covers the main classes of games their representations and the main concepts used to analyze them   **Essentials of Game Theory** Kevin Leyton-Brown,Yoav Shoham,2022-05-31 Game theory is the mathematical study of interaction among independent self interested agents The audience for game theory has grown dramatically in recent years and now spans disciplines as diverse as political science biology psychology economics linguistics sociology and computer science among others What has been missing is a relatively short introduction to the field covering the common basis that anyone with a professional interest in game theory is likely to require Such a text would minimize notation ruthlessly focus on essentials and yet not sacrifice rigor This Synthesis Lecture aims to fill this gap by providing a concise and accessible introduction to the field It covers the main classes of games their representations and the main concepts used to analyze them   **Game Theory** Branislav Sobota,2023-03-01 Games both as activities and as a basic educational tool are important not only from birth to death but also from the beginnings of human society to the present day This book describes some modern game approaches procedures and algorithms as well as the practical use of game theory and its development The discipline of game theory deals mainly with types description algorithmization and strategies but also the formalization of games Among other topics the book discusses game classifications and formalization cooperative and non cooperative games symmetric and asymmetric games simultaneous and turn based sequential games and games with complete and incomplete information The book also considers the testing and presentation of games the relationship of game theory and information technologies of strategy games and sports games of economy and business games theory and the educational training and sociological impacts of gaming   *Strategic Applications of Game Theory* Parthiban Srinivasan,2025-02-20 Strategic Applications of Game Theory is an indispensable resource that delves into the intricacies of game theory offering a thorough exploration of fundamental concepts practical applications and recent developments Whether you re a student researcher or practitioner this book serves as your definitive guide to understanding the principles and real world implications of game theory across various disciplines We begin by laying a solid foundation in game theory basics including definitions origins and the evolution of key concepts Readers are introduced to strategic interactions decision making processes and the mathematical frameworks underpinning game theoretic analyses As the journey progresses we delve into

advanced topics such as cooperative and non cooperative games equilibrium concepts and mechanism design providing a deep understanding of strategic reasoning and solution concepts Covering a wide range of topics from classical game theory to cutting edge research in behavioral game theory and machine learning we present complex theories in a clear and accessible manner Real world examples illustrate game theory applications in economics political science biology computer science and other fields Engaging exercises encourage readers to apply their understanding and develop analytical skills Drawing on insights from economics mathematics psychology and computer science this interdisciplinary approach offers a holistic perspective on strategic behavior *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 *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 **Reinforcement Learning** Marco Wiering,Martijn van Otterlo,2012-03-05 Reinforcement learning encompasses both a science of adaptive behavior of rational beings in uncertain environments and a computational methodology for finding optimal behaviors for challenging problems in control optimization and adaptive behavior of intelligent agents As a field reinforcement learning has progressed tremendously in the past decade The main goal of this book is to present an up to date series of survey articles on the main contemporary sub fields of reinforcement learning This includes surveys on partially observable environments hierarchical task decompositions relational knowledge representation and predictive state representations Furthermore topics such as transfer evolutionary methods and continuous spaces in reinforcement learning are surveyed In addition several chapters review reinforcement learning methods in robotics in games and in computational neuroscience In total seventeen different subfields are presented by mostly young experts in those areas and together they truly represent a state of the art of current reinforcement learning research Marco Wiering works at the artificial intelligence department of the University of Groningen in the Netherlands He has published extensively on various reinforcement learning topics Martijn van Otterlo works in the cognitive artificial intelligence group at the Radboud University Nijmegen in The Netherlands He has mainly focused on expressive knowledge representation in reinforcement learning settings **Network Security** Tansu Alpcan,Tamer Başar,2010-10-21 Covering attack detection malware response algorithm and mechanism design privacy and risk management this comprehensive work applies unique quantitative models derived from decision control and game theories to understanding diverse network security problems It provides the reader with a system level theoretical understanding of network security and is essential reading for researchers interested in a quantitative approach to key incentive and resource allocation issues in the field It also provides practitioners with an analytical foundation that is useful for formalising decision making processes in network security **Lifelong Machine Learning, Second Edition** Zhiyuan Chen,Bing Liu,2022-06-01 Lifelong Machine Learning Second Edition is an introduction to an advanced machine learning paradigm that continuously learns by accumulating past knowledge that it then uses in future learning and problem solving In contrast the current dominant machine learning paradigm learns in isolation given a training dataset it runs a machine learning algorithm on the dataset to produce a model that is then used in its intended application It makes no attempt to retain the learned knowledge and use it in subsequent learning Unlike this isolated system humans learn effectively with only a few examples precisely because our learning is very knowledge driven the knowledge learned in the past helps us learn new things with little data or effort Lifelong learning aims to emulate this capability because without it an AI system cannot be considered truly intelligent

Research in lifelong learning has developed significantly in the relatively short time since the first edition of this book was published The purpose of this second edition is to expand the definition of lifelong learning update the content of several chapters and add a new chapter about continual learning in deep neural networks which has been actively researched over the past two or three years A few chapters have also been reorganized to make each of them more coherent for the reader Moreover the authors want to propose a unified framework for the research area Currently there are several research topics in machine learning that are closely related to lifelong learning most notably multi task learning transfer learning and meta learning because they also employ the idea of knowledge sharing and transfer This book brings all these topics under one roof and discusses their similarities and differences Its goal is to introduce this emerging machine learning paradigm and present a comprehensive survey and review of the important research results and latest ideas in the area This book is thus suitable for students researchers and practitioners who are interested in machine learning data mining natural language processing or pattern recognition Lecturers can readily use the book for courses in any of these related fields   Data Integration Michael Genesereth,2022-05-31 Data integration is a critical problem in our increasingly interconnected but inevitably heterogeneous world There are numerous data sources available in organizational databases and on public information systems like the World Wide Web Not surprisingly the sources often use different vocabularies and different data structures being created as they are by different people at different times for different purposes The goal of data integration is to provide programmatic and human users with integrated access to multiple heterogeneous data sources giving each user the illusion of a single homogeneous database designed for his or her specific need The good news is that in many cases the data integration process can be automated This book is an introduction to the problem of data integration and a rigorous account of one of the leading approaches to solving this problem viz the relational logic approach Relational logic provides a theoretical framework for discussing data integration Moreover in many important cases it provides algorithms for solving the problem in a computationally practical way In many respects relational logic does for data integration what relational algebra did for database theory several decades ago A companion web site provides interactive demonstrations of the algorithms Table of Contents Preface Interactive Edition Introduction Basic Concepts Query Folding Query Planning Master Schema Management Appendix References Index Author Biography Don t have access Recommend our Synthesis Digital Library to your library or purchase a personal subscription Email info morganclaypool com for details   Representations and Techniques for 3D Object Recognition and Scene Interpretation Derek Hoiem,Silvio Savarese,2022-05-31 One of the grand challenges of artificial intelligence is to enable computers to interpret 3D scenes and objects from imagery This book organizes and introduces major concepts in 3D scene and object representation and inference from still images with a focus on recent efforts to fuse models of geometry and perspective with statistical machine learning The book is organized into three sections 1 Interpretation of Physical Space 2 Recognition of 3D Objects and 3 Integrated 3D Scene Interpretation The

first discusses representations of spatial layout and techniques to interpret physical scenes from images The second section introduces representations for 3D object categories that account for the intrinsically 3D nature of objects and provide robustness to change in viewpoints The third section discusses strategies to unite inference of scene geometry and object pose and identity into a coherent scene interpretation Each section broadly surveys important ideas from cognitive science and artificial intelligence research organizes and discusses key concepts and techniques from recent work in computer vision and describes a few sample approaches in detail Newcomers to computer vision will benefit from introductions to basic concepts such as single view geometry and image classification while experts and novices alike may find inspiration from the book s organization and discussion of the most recent ideas in 3D scene understanding and 3D object recognition Specific topics include mathematics of perspective geometry visual elements of the physical scene structural 3D scene representations techniques and features for image and region categorization historical perspective computational models and datasets and machine learning techniques for 3D object recognition inferences of geometrical attributes of objects such as size and pose and probabilistic and feature passing approaches for contextual reasoning about 3D objects and scenes Table of Contents Background on 3D Scene Models Single view Geometry Modeling the Physical Scene Categorizing Images and Regions Examples of 3D Scene Interpretation Background on 3D Recognition Modeling 3D Objects Recognizing and Understanding 3D Objects Examples of 2D 1 2 Layout Models Reasoning about Objects and Scenes Cascades of Classifiers Conclusion and Future Directions   **Human Computation** Edith Law,Luis von Ahn,2022-06-01 Human computation is a new and evolving research area that centers around harnessing human intelligence to solve computational problems that are beyond the scope of existing Artificial Intelligence AI algorithms With the growth of the Web human computation systems can now leverage the abilities of an unprecedented number of people via the Web to perform complex computation There are various genres of human computation applications that exist today Games with a purpose e g the ESP Game specifically target online gamers who generate useful data e g image tags while playing an enjoyable game Crowdsourcing marketplaces e g Amazon Mechanical Turk are human computation systems that coordinate workers to perform tasks in exchange for monetary rewards In identity verification tasks users perform computation in order to gain access to some online content an example is reCAPTCHA which leverages millions of users who solve CAPTCHAs every day to correct words in books that optical character recognition OCR programs fail to recognize with certainty This book is aimed at achieving four goals 1 defining human computation as a research area 2 providing a comprehensive review of existing work 3 drawing connections to a wide variety of disciplines including AI Machine Learning HCI Mechanism Market Design and Psychology and capturing their unique perspectives on the core research questions in human computation and 4 suggesting promising research directions for the future Table of Contents Introduction Human Computation Algorithms Aggregating Outputs Task Routing Understanding Workers and Requesters The Art of Asking Questions The Future of Human Computation   Active Learning

Burr Settles,2022-05-31 The key idea behind active learning is that a machine learning algorithm can perform better with less training if it is allowed to choose the data from which it learns An active learner may pose queries usually in the form of unlabeled data instances to be labeled by an oracle e g a human annotator that already understands the nature of the problem This sort of approach is well motivated in many modern machine learning and data mining applications where unlabeled data may be abundant or easy to come by but training labels are difficult time consuming or expensive to obtain This book is a general introduction to active learning It outlines several scenarios in which queries might be formulated and details many query selection algorithms which have been organized into four broad categories or query selection frameworks We also touch on some of the theoretical foundations of active learning and conclude with an overview of the strengths and weaknesses of these approaches in practice including a summary of ongoing work to address these open challenges and opportunities Table of Contents Automating Inquiry Uncertainty Sampling Searching Through the Hypothesis Space Minimizing Expected Error and Variance Exploiting Structure in Data Theory Practical Considerations **Planning with Markov Decision Processes** Mausam Natarajan,Andrey Kolobov,2022-06-01 Markov Decision Processes MDPs are widely popular in Artificial Intelligence for modeling sequential decision making scenarios with probabilistic dynamics They are the framework of choice when designing an intelligent agent that needs to act for long periods of time in an environment where its actions could have uncertain outcomes MDPs are actively researched in two related subareas of AI probabilistic planning and reinforcement learning Probabilistic planning assumes known models for the agent s goals and domain dynamics and focuses on determining how the agent should behave to achieve its objectives On the other hand reinforcement learning additionally learns these models based on the feedback the agent gets from the environment This book provides a concise introduction to the use of MDPs for solving probabilistic planning problems with an emphasis on the algorithmic perspective It covers the whole spectrum of the field from the basics to state of the art optimal and approximation algorithms We first describe the theoretical foundations of MDPs and the fundamental solution techniques for them We then discuss modern optimal algorithms based on heuristic search and the use of structured representations A major focus of the book is on the numerous approximation schemes for MDPs that have been developed in the AI literature These include determinization based approaches sampling techniques heuristic functions dimensionality reduction and hierarchical representations Finally we briefly introduce several extensions of the standard MDP classes that model and solve even more complex planning problems Table of Contents Introduction MDPs Fundamental Algorithms Heuristic Search Algorithms Symbolic Algorithms Approximation Algorithms Advanced Notes **Explainable Human-AI Interaction** Sarath Sreedharan,Anagha Kulkarni,Subbarao Kambhampati,2022-01-24 From its inception artificial intelligence AI has had a rather ambivalent relationship with humans swinging between their augmentation and replacement Now as AI technologies enter our everyday lives at an ever increasing pace there is a greater need for AI systems to work synergistically with humans One critical

requirement for such synergistic human AI interaction is that the AI systems behavior be explainable to the humans in the loop To do this effectively AI agents need to go beyond planning with their own models of the world and take into account the mental model of the human in the loop At a minimum AI agents need approximations of the human s task and goal models as well as the human s model of the AI agent s task and goal models The former will guide the agent to anticipate and manage the needs desires and attention of the humans in the loop and the latter allow it to act in ways that are interpretable to humans by conforming to their mental models of it and be ready to provide customized explanations when needed The authors draw from several years of research in their lab to discuss how an AI agent can use these mental models to either conform to human expectations or change those expectations through explanatory communication While the focus of the book is on cooperative scenarios it also covers how the same mental models can be used for obfuscation and deception The book also describes several real world application systems for collaborative decision making that are based on the framework and techniques developed here Although primarily driven by the authors own research in these areas every chapter will provide ample connections to relevant research from the wider literature The technical topics covered in the book are self contained and are accessible to readers with a basic background in AI   Representing and Reasoning with Qualitative Preferences Ganesh Ram Santhanam,Samik Basu,Vasant Honavar,2022-05-31 This book provides a tutorial introduction to modern techniques for representing and reasoning about qualitative preferences with respect to a set of alternatives The syntax and semantics of several languages for representing preference languages including CP nets TCP nets CI nets and CP theories are reviewed Some key problems in reasoning about preferences are introduced including determining whether one alternative is preferred to another or whether they are equivalent with respect to a given set of preferences These tasks can be reduced to model checking in temporal logic Specifically an induced preference graph that represents a given set of preferences can be efficiently encoded using a Kripke Structure for Computational Tree Logic CTL One can translate preference queries with respect to a set of preferences into an equivalent set of formulae in CTL such that the CTL formula is satisfied whenever the preference query holds This allows us to use a model checker to reason about preferences i e answer preference queries and to obtain a justification as to why a preference query is satisfied or not with respect to a set of preferences This book defines the notions of the equivalence of two sets of preferences including what it means for one set of preferences to subsume another and shows how to answer preferential equivalence and subsumption queries using model checking Furthermore this book demontrates how to generate alternatives ordered by preference along with providing ways to deal with inconsistent preference specifications A description of CRISNER an open source software implementation of the model checking approach to qualitative preference reasoning in CP nets TCP nets and CP theories is included as well as examples illustrating its use   **Algorithms for Reinforcement Learning** Csaba Szepesvári,2022-05-31 Reinforcement learning is a learning paradigm concerned with learning to control a system so as to maximize a numerical performance

measure that expresses a long term objective What distinguishes reinforcement learning from supervised learning is that only partial feedback is given to the learner about the learner s predictions Further the predictions may have long term effects through influencing the future state of the controlled system Thus time plays a special role The goal in reinforcement learning is to develop efficient learning algorithms as well as to understand the algorithms merits and limitations Reinforcement learning is of great interest because of the large number of practical applications that it can be used to address ranging from problems in artificial intelligence to operations research or control engineering In this book we focus on those algorithms of reinforcement learning that build on the powerful theory of dynamic programming We give a fairly comprehensive catalog of learning problems describe the core ideas note a large number of state of the art algorithms followed by the discussion of their theoretical properties and limitations Table of Contents Markov Decision Processes Value Prediction Problems Control For Further Exploration **Graph-Based Semi-Supervised Learning** Amarnag Subramanya,Partha Pratim Talukdar,2022-05-31 While labeled data is expensive to prepare ever increasing amounts of unlabeled data is becoming widely available In order to adapt to this phenomenon several semi supervised learning SSL algorithms which learn from labeled as well as unlabeled data have been developed In a separate line of work researchers have started to realize that graphs provide a natural way to represent data in a variety of domains Graph based SSL algorithms which bring together these two lines of work have been shown to outperform the state of the art in many applications in speech processing computer vision natural language processing and other areas of Artificial Intelligence Recognizing this promising and emerging area of research this synthesis lecture focuses on graph based SSL algorithms e g label propagation methods Our hope is that after reading this book the reader will walk away with the following 1 an in depth knowledge of the current state of the art in graph based SSL algorithms and the ability to implement them 2 the ability to decide on the suitability of graph based SSL methods for a problem and 3 familiarity with different applications where graph based SSL methods have been successfully applied Table of Contents Introduction Graph Construction Learning and Inference Scalability Applications Future Work Bibliography Authors Biographies Index Statistical Relational Artificial Intelligence Luc De Raedt,Kristian Kersting,Sriraam Natarajan,David Poole,2022-05-31 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   *Federated Learning* Qiang Yang,Yang Liu,Yong Cheng,Yan Kang,Tianjian Chen,Han Yu,2022-06-01 How is it possible to allow multiple data owners to collaboratively train and use a shared prediction model while keeping all the local training data private Traditional machine learning approaches need to combine all data at one location typically a data center which may very well violate the laws on user privacy and data confidentiality Today many parts of the world demand that technology companies treat user data carefully according to user privacy laws The European Union s General Data Protection Regulation GDPR is a prime example In this book we describe how federated machine learning addresses this problem with novel solutions combining distributed machine learning cryptography and security and incentive mechanism design based on economic principles and game theory We explain different types of privacy preserving machine learning solutions and their technological backgrounds and highlight some representative practical use cases We show how federated learning can become the foundation of next generation machine learning that caters to technological and societal needs for responsible AI development and application

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