

Essentials Of Game Theory A Concise Multidisciplinary Introduction

Essentials of Game Theory Explainable Human-AI Interaction Planning with Markov Decision Processes Active Learning Lifelong Machine Learning, Second Edition Human Computation Lifelong Machine Learning Data Integration Statistical Relational Artificial Intelligence Strategic Voting An Introduction to Business Ethics A Short Introduction to Biomedical Engineering Linguistics and Language Behavior Abstracts Medical Imaging 2004 Latin American Studies Association ... International Congress Cancer Resources Archivum Chirurgicum Neerlandicum Administrative Culture in a Global Context Artificial Intelligence Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD). Kevin Leyton-Brown Sarah Sreedharan Mausam Burr Settles Zhiyuan Chen Edith Law Zhiyuan Chaudhri Michael Genesereth Luc De Raedt Reshef Meir Joseph DesJardins S.N. Sarbadhikari Osman Ratib Latin American Studies Association. International Congress Joseph G. Jabbra Stuart Jonathan Russell

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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

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

provides a concise introduction to the use of markov decision processes 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

provides 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 organised into four broad categories or query selection frameworks the book also touches on some of the theoretical foundations of active learning and concludes with an overview of the strengths and weaknesses of these approaches

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

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 human computation systems can now leverage the abilities of an unprecedented number of people via the 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

lifelong machine learning or lifelong learning is an advanced machine learning paradigm that learns continuously accumulates the knowledge learned in previous tasks and uses it to help future learning in the process the learner becomes more and more knowledgeable and effective at learning this learning ability is one of the hallmarks of human intelligence however 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 it makes no attempt to retain the learned knowledge and use it in future learning although this isolated learning paradigm has been very successful it requires a large number of training examples and is only suitable for well defined and narrow tasks in comparison we humans can learn effectively with a few examples because we have accumulated so much knowledge in the past which enables us to learn with little data or effort lifelong learning aims to achieve this capability as statistical machine learning matures it is time to make a major effort to break the isolated learning tradition and to study lifelong learning to bring machine learning to new heights applications such as intelligent assistants chatbots and physical robots that interact with humans and systems in real life environments are also calling for such lifelong learning capabilities without the ability to accumulate the learned knowledge and use it to learn more knowledge incrementally a system will probably never be truly intelligent this book serves as an introductory text and survey to lifelong learning

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 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

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

social choice theory deals with aggregating the preferences of multiple individuals regarding several available alternatives a situation colloquially known as voting there are many different voting rules in use and even more in the literature owing to the various considerations such an aggregation method should take into account the analysis of voting scenarios becomes particularly challenging in the presence of strategic voters that is voters that misreport their true preferences in an attempt to obtain a more favorable outcome in a world that is tightly connected by the internet where multiple groups with complex incentives make frequent joint decisions the interest in strategic voting exceeds the scope of political science and is a focus of research in economics game theory sociology mathematics and computer science the book has two parts the first part asks are there voting rules that are truthful in the sense that all voters have an incentive to report their true preferences the seminal gibbard satterthwaite theorem excludes the existence of such voting rules under certain requirements from this starting point we survey both extensions of the theorem and various conditions under which truthful voting is made possible such as restricted preference domains we also explore the connections with other problems of mechanism design such as locating a facility that serves multiple users in the second part we ask what would be the outcome when voters do vote strategically rather than trying to prevent such behavior we overview various game theoretic models and equilibrium concepts from the literature demonstrate how they apply to voting games and discuss their implications on social welfare we conclude with a brief survey of empirical and experimental findings that could play a key role in future development of game theoretic voting models

since its inception an introduction to business ethics by joseph desjardins has been a cutting edge resource for the business ethics course desjardin s unique approach encompasses all that an introductory business ethics course is from a multidisciplinary perspective it offers critical analysis and integrates the perspective of philosophy with management law economics and public policy

presenting a bird s eye view of the important components in biomedical engineering this book explores how bioengineering has emerged as an important aid to diagnosis therapy and rehabilitation the author discusses the application of electrical mechanical chemical optical and other engineering principles to understand modify or control biological systems he covers the design and manufacture of products for monitoring physiological functions assisting in diagnoses assessing prognoses and helping in treatment of patients it also provides a glimpse of emerging trends in biomedical engineering like telemedicine and the wider use of computers in health care

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proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

this book provides an overview of the administrative challenges facing various nations while bureaucratic structures among nations appear similar the methods of conducting government business vary from nation to nation it is clear however that the process of globalization has narrowed the differences in the operations of administrative systems practices are being

changed to comply with international requirements due to liberalization the wto and the pressure brought to bear upon governments by multinational corporations is it possible that the twenty first century could create one universally understood administrative culture the editors of this volume believe diversity in thought and action is more desirable than the self proclaimed universal paradigms originating in the west and that diversity will ultimately lead to a just and sustainable world the major challenge before the non western nations will be how to maximize the positive effects of globalization and yet keep their identity and their indigenous systems alive but with proper accountability and transparency in governance

artificial intelligence a modern approach 3e is ideal for one or two semester undergraduate or graduate level courses in artificial intelligence it is also a valuable resource for computer professionals linguists and cognitive scientists interested in artificial intelligence the revision of this best selling text offers the most comprehensive up to date introduction to the theory and practice of artificial intelligence

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