Essentials Of Game Theory A Concise Multidisciplinary Introduction

Essentials of Game TheoryPlanning with Markov Decision ProcessesLifelong Machine LearningActive LearningLifelong Machine Learning, Second EditionHuman ComputationData IntegrationStatistical Relational Artificial IntelligenceStrategic VotingChild Abuse: Short- and long-term effectsA Short Introduction to Biomedical EngineeringIntroduction to Environmental ManagementMural Conservation in ThailandEnvironmental Education at University LevelIn the BeginningAIAA JournalAmerican CraftCancer ResourcesSurvival Guide for the Beginning Speech-language ClinicianIntroduction to Physical Therapy Kevin Leyton-Brown Mausam Zhiyuan Chaudhri Burr Settles Zhiyuan Chen Edith Law Michael Genesereth Luc De Raedt Reshef Meir S.N. Sarbadhikari B. D. Nag Choudhuri Alexis Ziering Lars Emmelin Brian M. Fagan American Institute of Aeronautics and Astronautics Susan Moon Meyer Michael A. Pagliarulo

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

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

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

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

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

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

for courses in introduction to archaeology method and theory in archaeology this comprehensive narrative uses an international perspective throughout while outlining the basic principles methods and theoretical approaches of modern archaeology it gives students a basic grounding on the subject the career opportunities it offers and a look at some of the spectacular and not so well known discoveries that illuminate our past written by a master of the genre the text emphasizes remote sensing techniques for archaeological survey addresses the study of gender and ethnic diversity from the archaeological record and assesses the importance of archaeology in the modern world

survival guide for the beginning speech language pathologist second edition will guide you when taking your first clinical steps toward a career as a speech language pathologist graduate and undergraduate students as well as beginning therapists will find this book useful and easy to understand it provides realistic practical and comprehensive overviews of clinical problems that are often encountered by beginning clinicians and offers solutions to those problems it also prepares you for what you will experience along the way this text does not focus on the numerous principles and theories which underlie various aspects of the clinical process because these are thoroughly covered in undergraduate and graduate courses the second edition has expanded and updated information on many topics including parent conferences and the concomitant reports group therapy and play therapy preparing for public schools and more writing quality reports remains a major focus of the book drawing on her more than 30 years of experience the author teaches the ins and outs of report writing she provides many real world examples of reports showing what to do and what not to do you ll make the transition from theory to practice much easier using this book as your guide let this book help you avoid common pitfalls and provide you with a solid foundation for your practice from the very first day in the clinic

providing an overview of the profession and practice of physical therapy this text presents an excellent introduction to any program of study in physical therapy part i profession reviews roles of the physical therapist and practice settings the apta laws regulations policies and current issues a whole chapter focuses on the physical therapist assistant defining the roles of this large and growing group of health professionals part ii practice reviews function disorders and therapies in major organ systems of the body musculoskeletal neuromuscular cardiopulmonary and integumentary in an applied context targeted for physical therapists and physical therapist assistants includes information specific to pediatric and older adult patients as well

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