

Michael Genesereth

# Data Integration

The Relational Logic Approach

# Data Integration The Relational Logic Approach Michael Genesereth

**Luc De Raedt, Kristian  
Kersting, Sriraam Natarajan, David  
Poole**

## **Data Integration The Relational Logic Approach Michael Genesereth:**

**Data Integration** Michael Genesereth, 2010 Provides an introduction to the problem of data integration and offers a rigorous account of one of the leading approaches to solving this problem 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 *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 *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 *Introduction to Logic Programming* Michael Genesereth, Vinay K. Chaudhri, 2022-06-01 Logic Programming is a style of programming in which programs take the form of sets of sentences in the language of Symbolic Logic Over the years there has been growing interest in Logic Programming due to applications

in deductive databases automated worksheets Enterprise Management business rules Computational Law and General Game Playing This book introduces Logic Programming theory current technology and popular applications In this volume we take an innovative model theoretic approach to logic programming We begin with the fundamental notion of datasets i e sets of ground atoms Given this fundamental notion we introduce views i e virtual relations and we define classical logic programs as sets of view definitions written using traditional Prolog like notation but with semantics given in terms of datasets rather than implementation We then introduce actions i e additions and deletions of ground atoms and we define dynamic logic programs as sets of action definitions In addition to the printed book there is an online version of the text with an interpreter and a compiler for the language used in the text and an integrated development environment for use in developing and deploying practical logic programs

*Game Theory for Data Science* Boi Faltings, Goran Radanovic, 2022-05-31 Intelligent systems often depend on data provided by information agents for example sensor data or crowdsourced human computation Providing accurate and relevant data requires costly effort that agents may not always be willing to provide Thus it becomes important not only to verify the correctness of data but also to provide incentives so that agents that provide high quality data are rewarded while those that do not are discouraged by low rewards We cover different settings and the assumptions they admit including sensing human computation peer grading reviews and predictions We survey different incentive mechanisms including proper scoring rules prediction markets and peer prediction Bayesian Truth Serum Peer Truth Serum Correlated Agreement and the settings where each of them would be suitable As an alternative we also consider reputation mechanisms We complement the game theoretic analysis with practical examples of applications in prediction platforms community sensing and peer grading

General Game Playing Michael Genesereth, Michael Thielscher, 2022-06-01 General game players are computer systems able to play strategy games based solely on formal game descriptions supplied at runtime n other words they don t know the rules until the game starts Unlike specialized game players such as Deep Blue general game players cannot rely on algorithms designed in advance for specific games they must discover such algorithms themselves General game playing expertise depends on intelligence on the part of the game player and not just intelligence of the programmer of the game player GGP is an interesting application in its own right It is intellectually engaging and more than a little fun But it is much more than that It provides a theoretical framework for modeling discrete dynamic systems and defining rationality in a way that takes into account problem representation and complexities like incompleteness of information and resource bounds It has practical applications in areas where these features are important e g in business and law More fundamentally it raises questions about the nature of intelligence and serves as a laboratory in which to evaluate competing approaches to artificial intelligence This book is an elementary introduction to General Game Playing GGP 1 It presents the theory of General Game Playing and leading GGP technologies 2 It shows how to create GGP programs capable of competing against other programs and humans 3 It offers a glimpse of some of the real world applications of General

Game Playing      **Flexible Integration and Efficient Analysis of Multidimensional Datasets from the Web** Kaempgen, Benedikt, 2015-09-23 If numeric data from the Web are brought together natural scientists can compare climate measurements with estimations financial analysts can evaluate companies based on balance sheets and daily stock market values and citizens can explore the GDP per capita from several data sources However heterogeneities and size of data remain a problem This work presents methods to query a uniform view the Global Cube of available datasets from the Web and builds on Linked Data query approaches      Applying Reinforcement Learning on Real-World Data with Practical Examples in Python Philip Osborne, Kajal Singh, Matthew E. Taylor, 2022-05-20 Reinforcement learning is a powerful tool in artificial intelligence in which virtual or physical agents learn to optimize their decision making to achieve long term goals In some cases this machine learning approach can save programmers time outperform existing controllers reach super human performance and continually adapt to changing conditions It has shown human level performance on a number of tasks REF and the methodology for automation in robotics and self driving cars REF This book argues that these successes show reinforcement learning can be adopted successfully in many different situations including robot control stock trading supply chain optimization and plant control However reinforcement learning has traditionally been limited to applications in virtual environments or simulations in which the setup is already provided Furthermore experimentation may be completed for an almost limitless number of attempts risk free In many real life tasks applying reinforcement learning is not as simple as 1 data is not in the correct form for reinforcement learning 2 data is scarce and 3 automation has limitations in the real world Therefore this book is written to help academics domain specialists and data enthusiast alike to understand the basic principles of applying reinforcement learning to real world problems This is achieved by focusing on the process of taking practical examples and modeling standard data into the correct form required to then apply basic agents To further assist readers gain a deep and grounded understanding of the approaches the book shows hand calculated examples in full and then how this can be achieved in a more automated manner with code For decision makers who are interested in reinforcement learning as a solution but are not proficient the book includes simple non technical examples in the introduction and case studies section These provide context of what reinforcement learning offer but also the challenges and risks associated with applying it in practice Specifically these sections illustrate the differences between reinforcement learning and other machine learning approaches as well as how well known companies have found success using the approach to their problems      *Learning and Decision-Making from Rank Data* Lirong Xia, 2022-06-01 The ubiquitous challenge of learning and decision making from rank data arises in situations where intelligent systems collect preference and behavior data from humans learn from the data and then use the data to help humans make efficient effective and timely decisions Often such data are represented by rankings This book surveys some recent progress toward addressing the challenge from the considerations of statistics computation and socio economics We will cover classical statistical models for

rank data including random utility models distance based models and mixture models We will discuss and compare classical and state of the art algorithms such as algorithms based on Minorize Majorization MM Expectation Maximization EM Generalized Method of Moments GMM rank breaking and tensor decomposition We will also introduce principled Bayesian preference elicitation frameworks for collecting rank data Finally we will examine socio economic aspects of statistically desirable decision making mechanisms such as Bayesian estimators This book can be useful in three ways 1 for theoreticians in statistics and machine learning to better understand the considerations and caveats of learning from rank data compared to learning from other types of data especially cardinal data 2 for practitioners to apply algorithms covered by the book for sampling learning and aggregation and 3 as a textbook for graduate students or advanced undergraduate students to learn about the field This book requires that the reader has basic knowledge in probability statistics and algorithms Knowledge in social choice would also help but is not required

*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

**Reasoning with Probabilistic and Deterministic Graphical Models** Rina Kraus, 2022-12-06 Graphical models e g Bayesian and constraint networks influence diagrams and Markov decision processes have become a central paradigm for knowledge representation and reasoning in both artificial intelligence and computer science in general These models are used to perform many reasoning tasks such as scheduling planning and learning diagnosis and prediction design hardware and software verification and bioinformatics These problems can be stated as the formal tasks of constraint satisfaction and satisfiability combinatorial optimization and probabilistic inference It is well known that the tasks are computationally hard but research during the past three decades has yielded a

variety of principles and techniques that significantly advanced the state of the art In this book we provide comprehensive coverage of the primary exact algorithms for reasoning with such models The main feature exploited by the algorithms is the model's graph We present inference based message passing schemes e g variable elimination and search based conditioning schemes e g cycle cutset conditioning and AND OR search Each class possesses distinguished characteristics and in particular has different time vs space behavior We emphasize the dependence of both schemes on few graph parameters such as the treewidth cycle cutset and the pseudo tree height We believe the principles outlined here would serve well in moving forward to approximation and anytime based schemes The target audience of this book is researchers and students in the artificial intelligence and machine learning area and beyond

### **Introduction to Symbolic Plan and Goal**

**Recognition** Reuth Mirsky, Sarah Keren, Christopher Geib, 2022-05-31 Plan recognition activity recognition and goal recognition all involve making inferences about other actors based on observations of their interactions with the environment and other agents This synergistic area of research combines and makes use of techniques and research from a wide range of areas including user modeling machine vision automated planning intelligent user interfaces human computer interaction autonomous and multi agent systems natural language understanding and machine learning It plays a crucial role in a wide variety of applications including assistive technology software assistants computer and network security human robot collaboration natural language processing video games and many more This wide range of applications and disciplines has produced a wealth of ideas models tools and results in the recognition literature However it has also contributed to fragmentation in the field with researchers publishing relevant results in a wide spectrum of journals and conferences This book seeks to address this fragmentation by providing a high level introduction and historical overview of the plan and goal recognition literature It provides a description of the core elements that comprise these recognition problems and practical advice for modeling them In particular we define and distinguish the different recognition tasks We formalize the major approaches to modeling these problems using a single motivating example Finally we describe a number of state of the art systems and their extensions future challenges and some potential applications

### **Reasoning with Probabilistic and**

**Deterministic Graphical Models** Rina Dechter, 2022-06-01 Graphical models e g Bayesian and constraint networks influence diagrams and Markov decision processes have become a central paradigm for knowledge representation and reasoning in both artificial intelligence and computer science in general These models are used to perform many reasoning tasks such as scheduling planning and learning diagnosis and prediction design hardware and software verification and bioinformatics These problems can be stated as the formal tasks of constraint satisfaction and satisfiability combinatorial optimization and probabilistic inference It is well known that the tasks are computationally hard but research during the past three decades has yielded a variety of principles and techniques that significantly advanced the state of the art This book provides comprehensive coverage of the primary exact algorithms for reasoning with such models The main feature exploited

by the algorithms is the model's graph. We present inference based message passing schemes e.g. variable elimination and search based conditioning schemes e.g. cycle cutset conditioning and AND/OR search. Each class possesses distinguished characteristics and in particular has different time vs space behavior. We emphasize the dependence of both schemes on few graph parameters such as the treewidth, cycle cutset and the pseudo tree height. The new edition includes the notion of influence diagrams which focus on sequential decision making under uncertainty. We believe the principles outlined in the book would serve well in moving forward to approximation and anytime based schemes. The target audience of this book is researchers and students in the artificial intelligence and machine learning area and beyond.

### **Predicting Human**

**Decision-Making** Ariel Rosenfeld, Sarit Kraus, 2022-05-31 Human decision making often transcends our formal models of rationality. Designing intelligent agents that interact proficiently with people necessitates the modeling of human behavior and the prediction of their decisions. In this book we explore the task of automatically predicting human decision making and its use in designing intelligent human aware automated computer systems of varying natures from purely conflicting interaction settings e.g. security and games to fully cooperative interaction settings e.g. autonomous driving and personal robotic assistants. We explore the techniques, algorithms and empirical methodologies for meeting the challenges that arise from the above tasks and illustrate major benefits from the use of these computational solutions in real world application domains such as security negotiations, argumentative interactions, voting systems, autonomous driving and games. The book presents both the traditional and classical methods as well as the most recent and cutting edge advances providing the reader with a panorama of the challenges and solutions in predicting human decision making.

### **Network Embedding**

Cheng Yang, Zhiyuan Liu, Cunchao Tu, Chuan Shi, Maosong Sun, 2022-05-31 heterogeneous graphs. Further the book introduces different applications of NE such as recommendation and information diffusion prediction. Finally the book concludes the methods and applications and looks forward to the future directions.

### **Introduction to Intelligent Systems**

**in Traffic and Transportation** Ana L.C. Bazzan, Franziska Klügl, 2022-05-31 Urban mobility is not only one of the pillars of modern economic systems but also a key issue in the quest for equality of opportunity once it can improve access to other services. Currently however there are a number of negative issues related to traffic especially in mega cities such as economical issues, cost of opportunity caused by delays, environmental externalities related to emissions of pollutants and social traffic accidents. Solutions to these issues are more and more closely tied to information and communication technology. Indeed a search in the technical literature using the keyword urban traffic to filter out articles on data network traffic retrieved the following number of articles as of December 3, 2013: 9,443 ACM Digital Library, 26,054 Scopus and 1,730,000 Google Scholar. Moreover articles listed in the ACM query relate to conferences as diverse as MobiCom, CHI, PADS and AAMAS. This means that there is a big and diverse community of computer scientists and computer engineers who tackle research that is connected to the development of intelligent traffic and transportation systems. It is also possible to see that



this community is growing and that research projects are getting more and more interdisciplinary To foster the cooperation among the involved communities this book aims at giving a broad introduction into the basic but relevant concepts related to transportation systems targeting researchers and practitioners from computer science and information technology In addition the second part of the book gives a panorama of some of the most exciting and newest technologies originating in computer science and computer engineering that are now being employed in projects related to car to car communication interconnected vehicles car navigation platooning crowd sensing and sensor networks among others This material will also be of interest to engineers and researchers from the traffic and transportation community

*An Introduction to Constraint-Based Temporal Reasoning* Roman Barták, Robert A. Morris, K. Brent Venable, 2022-05-31 Solving challenging computational problems involving time has been a critical component in the development of artificial intelligence systems almost since the inception of the field This book provides a concise introduction to the core computational elements of temporal reasoning for use in AI systems for planning and scheduling as well as systems that extract temporal information from data It presents a survey of temporal frameworks based on constraints both qualitative and quantitative as well as of major temporal consistency techniques The book also introduces the reader to more recent extensions to the core model that allow AI systems to explicitly represent temporal preferences and temporal uncertainty This book is intended for students and researchers interested in constraint based temporal reasoning It provides a self contained guide to the different representations of time as well as examples of recent applications of time in AI systems

*Trading Agents* Michael P. Wellman, 2011 Automated trading in electronic markets is one of the most common and consequential applications of autonomous software agents Design of effective trading strategies requires thorough understanding of how market mechanisms operate and appreciation of strategic issues that commonly manifest in trading scenarios Drawing on research in auction theory and artificial intelligence this book presents core principles of strategic reasoning that apply to market situations The author illustrates trading strategy choices through examples of concrete market environments such as eBay as well as abstract market models defined by configurations of auctions and traders Techniques for addressing these choices constitute essential building blocks for the design of trading strategies for rich market applications The lecture assumes no prior background in game theory or auction theory or artificial intelligence Table of Contents Introduction Example Bidding on eBay Auction Fundamentals Continuous Double Auctions Interdependent Markets Conclusion

*Trading Agents* Michael Wellman, 2022-05-31 Automated trading in electronic markets is one of the most common and consequential applications of autonomous software agents Design of effective trading strategies requires thorough understanding of how market mechanisms operate and appreciation of strategic issues that commonly manifest in trading scenarios Drawing on research in auction theory and artificial intelligence this book presents core principles of strategic reasoning that apply to market situations The author illustrates trading strategy choices through examples of concrete market environments such as eBay as

well as abstract market models defined by configurations of auctions and traders Techniques for addressing these choices constitute essential building blocks for the design of trading strategies for rich market applications The lecture assumes no prior background in game theory or auction theory or artificial intelligence Table of Contents Introduction Example Bidding on eBay Auction Fundamentals Continuous Double Auctions Interdependent Markets Conclusion Explainable Human-AI Interaction Sarath Sreedharan, Anagha Kulkarni, Subbarao Kambhampati, 2022-05-31 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

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