

Synthesis Lectures on
Artificial Intelligence and Machine Learning

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COLLEGE OF TECHNOLOGY

Davide Grossi · Gabriella Pigozzi

Judgment Aggregation: A Primer

 Springer

Judgment Aggregation A Primer Gabriella Pigozzi

Philippe Mongin



Judgment Aggregation A Primer Gabriella Pigozzi:

Judgment Aggregation Davide Grossi, Gabriella Pigozzi, 2022-06-01 Judgment aggregation is a mathematical theory of collective decision making It concerns the methods whereby individual opinions about logically interconnected issues of interest can or cannot be aggregated into one collective stance Aggregation problems have traditionally been of interest for disciplines like economics and the political sciences as well as philosophy where judgment aggregation itself originates from but have recently captured the attention of disciplines like computer science artificial intelligence and multi agent systems Judgment aggregation has emerged in the last decade as a unifying paradigm for the formalization and understanding of aggregation problems Still no comprehensive presentation of the theory is available to date This Synthesis Lecture aims at filling this gap presenting the key motivations results abstractions and techniques underpinning it Table of Contents Preface Acknowledgments Logic Meets Social Choice Theory Basic Concepts Impossibility Coping with Impossibility Manipulability Aggregation Rules Deliberation Bibliography Authors Biographies Index

Multi-Objective Decision Making Diederik M. Roijers, Shimon Whiteson, 2017-04-20 Many real world decision problems have multiple objectives For example when choosing a medical treatment plan we want to maximize the efficacy of the treatment but also minimize the side effects These objectives typically conflict e g we can often increase the efficacy of the treatment but at the cost of more severe side effects In this book we outline how to deal with multiple objectives in decision theoretic planning and reinforcement learning algorithms To illustrate this we employ the popular problem classes of multi objective Markov decision processes MOMDPs and multi objective coordination graphs MO CoGs First we discuss different use cases for multi objective decision making and why they often necessitate explicitly multi objective algorithms We advocate a utility based approach to multi objective decision making i e that what constitutes an optimal solution to a multi objective decision problem should be derived from the available information about user utility We show how different assumptions about user utility and what types of policies are allowed lead to different solution concepts which we outline in a taxonomy of multi objective decision problems Second we show how to create new methods for multi objective decision making using existing single objective methods as a basis Focusing on planning we describe two ways to creating multi objective algorithms in the inner loop approach the inner workings of a single objective method are adapted to work with multi objective solution concepts in the outer loop approach a wrapper is created around a single objective method that solves the multi objective problem as a series of single objective problems After discussing the creation of such methods for the planning setting we discuss how these approaches apply to the learning setting Next we discuss three promising application domains for multi objective decision making algorithms energy health and infrastructure and transportation Finally we conclude by outlining important open problems and promising future directions

An Introduction to the Planning Domain Definition Language Patrik Haslum, Nir Lipovetzky, Daniele Magazzeni, Christian Muise, 2019-04-02 Planning is the branch of Artificial Intelligence AI that seeks to automate reasoning

about plans most importantly the reasoning that goes into formulating a plan to achieve a given goal in a given situation AI planning is model based a planning system takes as input a description or model of the initial situation the actions available to change it and the goal condition to output a plan composed of those actions that will accomplish the goal when executed from the initial situation The Planning Domain Definition Language PDDL is a formal knowledge representation language designed to express planning models Developed by the planning research community as a means of facilitating systems comparison it has become a de facto standard input language of many planning systems although it is not the only modelling language for planning Several variants of PDDL have emerged that capture planning problems of different natures and complexities with a focus on deterministic problems The purpose of this book is two fold First we present a unified and current account of PDDL covering the subsets of PDDL that express discrete numeric temporal and hybrid planning Second we want to introduce readers to the art of modelling planning problems in this language through educational examples that demonstrate how PDDL is used to model realistic planning problems The book is intended for advanced students and researchers in AI who want to dive into the mechanics of AI planning as well as those who want to be able to use AI planning systems without an in depth explanation of the algorithms and implementation techniques they use

The Practice of Crowdsourcing Omar Alonso,2019-05-28 Many data intensive applications that use machine learning or artificial intelligence techniques depend on humans providing the initial dataset enabling algorithms to process the rest or for other humans to evaluate the performance of such algorithms Not only can labeled data for training and evaluation be collected faster cheaper and easier than ever before but we now see the emergence of hybrid human machine software that combines computations performed by humans and machines in conjunction There are however real world practical issues with the adoption of human computation and crowdsourcing Building systems and data processing pipelines that require crowd computing remains difficult In this book we present practical considerations for designing and implementing tasks that require the use of humans and machines in combination with the goal of producing high quality labels

Transfer Learning for Multiagent Reinforcement Learning Systems Felipe Leno da Silva,Anna Helena Reali Costa,2022-06-01 Learning to solve sequential decision making tasks is difficult Humans take years exploring the environment essentially in a random way until they are able to reason solve difficult tasks and collaborate with other humans towards a common goal Artificial Intelligent agents are like humans in this aspect Reinforcement Learning RL is a well known technique to train autonomous agents through interactions with the environment Unfortunately the learning process has a high sample complexity to infer an effective actuation policy especially when multiple agents are simultaneously actuating in the environment However previous knowledge can be leveraged to accelerate learning and enable solving harder tasks In the same way humans build skills and reuse them by relating different tasks RL agents might reuse knowledge from previously solved tasks and from the exchange of knowledge with other agents in the environment In fact virtually all of the most

challenging tasks currently solved by RL rely on embedded knowledge reuse techniques such as Imitation Learning Learning from Demonstration and Curriculum Learning This book surveys the literature on knowledge reuse in multiagent RL The authors define a unifying taxonomy of state of the art solutions for reusing knowledge providing a comprehensive discussion of recent progress in the area In this book readers will find a comprehensive discussion of the many ways in which knowledge can be reused in multiagent sequential decision making tasks as well as in which scenarios each of the approaches is more efficient The authors also provide their view of the current low hanging fruit developments of the area as well as the still open big questions that could result in breakthrough developments Finally the book provides resources to researchers who intend to join this area or leverage those techniques including a list of conferences journals and implementation tools This book will be useful for a wide audience and will hopefully promote new dialogues across communities and novel developments in the area

Robot Learning from Human Teachers Sonia Chernova, Andrea L. Thomaz, 2014-04-01 Learning from Demonstration LfD explores techniques for learning a task policy from examples provided by a human teacher The field of LfD has grown into an extensive body of literature over the past 30 years with a wide variety of approaches for encoding human demonstrations and modeling skills and tasks Additionally we have recently seen a focus on gathering data from non expert human teachers i e domain experts but not robotics experts In this book we provide an introduction to the field with a focus on the unique technical challenges associated with designing robots that learn from naive human teachers We begin in the introduction with a unification of the various terminology seen in the literature as well as an outline of the design choices one has in designing an LfD system Chapter 2 gives a brief survey of the psychology literature that provides insights from human social learning that are relevant to designing robotic social learners Chapter 3 walks through an LfD interaction surveying the design choices one makes and state of the art approaches in prior work First is the choice of input how the human teacher interacts with the robot to provide demonstrations Next is the choice of modeling technique Currently there is a dichotomy in the field between approaches that model low level motor skills and those that model high level tasks composed of primitive actions We devote a chapter to each of these Chapter 7 is devoted to interactive and active learning approaches that allow the robot to refine an existing task model And finally Chapter 8 provides best practices for evaluation of LfD systems with a focus on how to approach experiments with human subjects in this domain

Graph Representation Learning William L. Hamilton, 2022-06-01 Graph structured data is ubiquitous throughout the natural and social sciences from telecommunication networks to quantum chemistry Building relational inductive biases into deep learning architectures is crucial for creating systems that can learn reason and generalize from this kind of data Recent years have seen a surge in research on graph representation learning including techniques for deep graph embeddings generalizations of convolutional neural networks to graph structured data and neural message passing approaches inspired by belief propagation These advances in graph representation learning have led to new state of the art

results in numerous domains including chemical synthesis 3D vision recommender systems question answering and social network analysis This book provides a synthesis and overview of graph representation learning It begins with a discussion of the goals of graph representation learning as well as key methodological foundations in graph theory and network analysis Following this the book introduces and reviews methods for learning node embeddings including random walk based methods and applications to knowledge graphs It then provides a technical synthesis and introduction to the highly successful graph neural network GNN formalism which has become a dominant and fast growing paradigm for deep learning with graph data The book concludes with a synthesis of recent advancements in deep generative models for graphs a nascent but quickly growing subset of graph representation learning

Strategic Voting Reshef Meir,2018-06-11

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

Introduction to Graph Neural Networks Zhiyuan Liu,Jie Zhou,2022-05-31

Graphs are useful data structures in complex real life applications such as modeling physical systems learning molecular fingerprints controlling traffic networks and recommending friends in social networks However these tasks require dealing with non Euclidean graph data that contains rich relational information between elements and cannot be well handled by traditional deep learning models e g convolutional neural networks CNNs or recurrent neural networks RNNs Nodes in graphs usually contain useful feature information that cannot be well addressed in most unsupervised representation learning methods e g network embedding methods Graph neural networks GNNs are proposed to combine the feature information and the graph structure to learn

better representations on graphs via feature propagation and aggregation Due to its convincing performance and high interpretability GNN has recently become a widely applied graph analysis tool This book provides a comprehensive introduction to the basic concepts models and applications of graph neural networks It starts with the introduction of the vanilla GNN model Then several variants of the vanilla model are introduced such as graph convolutional networks graph recurrent networks graph attention networks graph residual networks and several general frameworks Variants for different graph types and advanced training methods are also included As for the applications of GNNs the book categorizes them into structural non structural and other scenarios and then it introduces several typical models on solving these tasks Finally the closing chapters provide GNN open resources and the outlook of several future directions

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 in 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

Premise Independence in Judgment Aggregation, 2007

Judgment Aggregation Philippe Mongin, 2019 Judgment aggregation theory generalizes social choice theory by having the aggregation rule bear on judgments of all kinds instead of barely judgments of preference The paper briefly sums it up privileging the variant that formalizes judgment by a logical syntax The theory derives from Kornhauser and Sager's doctrinal paradox and Pettit's discursive dilemma which List and Pettit turned into an impossibility theorem the first of a long list to come After mentioning this stage the paper restates three theorems that are representative of the current work by Nehring and Puppe Dokow and Holzman and Dietrich and Mongin respectively and it concludes by explaining how Dietrich and List have recovered Arrow's theorem as a particular application of the theory

The Premiss-based Approach to Judgment Aggregation Franz Dietrich, Philippe Mongin., 2008

Judgment Aggregation Without Full Rationality Franz Dietrich, Christian List, 2006 Several recent results on the aggregation of judgments over

logically connected propositions show that under certain conditions dictatorships are the only propositionwise aggregation functions generating fully rational i.e. complete and consistent collective judgments A frequently mentioned route to avoid dictatorships is to allow incomplete collective judgments We show that this route does not lead very far we obtain oligarchies rather than dictatorships if instead of full rationality we merely require that collective judgments be deductively closed arguably a minimal condition of rationality compatible even with empty judgment sets We derive several characterizations of oligarchies and provide illustrative applications to Arrowian preference aggregation and Kasher and Rubinstein's group identification problem

Judgment aggregation theory can entail new social choice results François Maniquet, Philippe Mongin, 2014

Judgment Aggregation Franz Dietrich, 2008

The Impossibility of Unbiased Judgment Aggregation Franz Dietrich, Christian List, 2007

Judgment Aggregation in Search for the Truth Irem Bozbay, F.K. Dietrich, Hendricus Johannes Maria Peters, 2011

Judgment Aggregation with Consistency Alone Franz Dietrich, Christian List, 2007

Introduction to Judgment Aggregation Christian List, Ben Polak, 2010 This introduces the symposium on judgment aggregation The theory of judgment aggregation asks how several individuals' judgments on some logically connected propositions can be aggregated into consistent collective judgments The aim of this introduction is to show how ideas from the familiar theory of preference aggregation can be extended to this more general case We first translate a proof of Arrow's impossibility theorem into the new setting so as to motivate some of the central concepts and conditions leading to analogous impossibilities as discussed in the symposium We then consider each of four possible escape routes explored in the symposium

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