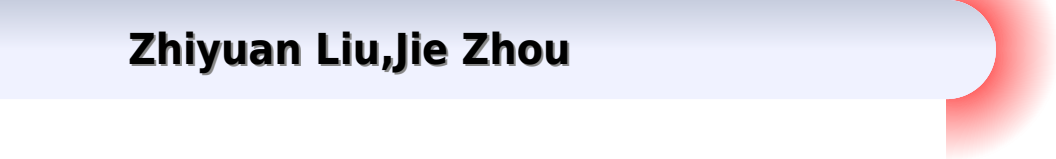


Michael Thielscher

ACTION PROGRAMMING LANGUAGES

Action Programming Languages Michael Thielscher

Zhiyuan Liu, Jie Zhou



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Action Programming Languages Michael Thielscher, 2008-07-08 Artificial systems that think and behave intelligently are one of the most exciting and challenging goals of Artificial Intelligence Action Programming is the art and science of devising high level control strategies for autonomous systems which employ a mental model of their environment and which reason about their actions as a means to achieve their goals Applications of this programming paradigm include autonomous software agents mobile robots with high level reasoning capabilities and General Game Playing These lecture notes give an in depth introduction to the current state of the art in action programming The main topics are knowledge representation for actions procedural action programming planning agent logic programs and reactive behavior based agents The only prerequisite for understanding the material in these lecture notes is some general programming experience and basic knowledge of classical first order logic Table of Contents Introduction Mathematical Preliminaries Procedural Action Programs Action Programs and Planning Declarative Action Programs Reactive Action Programs Suggested Further Reading

Action Programming Languages Michael Thielscher, 2022-05-31 Artificial systems that think and behave intelligently are one of the most exciting and challenging goals of Artificial Intelligence Action Programming is the art and science of devising high level control strategies for autonomous systems which employ a mental model of their environment and which reason about their actions as a means to achieve their goals Applications of this programming paradigm include autonomous software agents mobile robots with high level reasoning capabilities and General Game Playing These lecture notes give an in depth introduction to the current state of the art in action programming The main topics are knowledge representation for actions procedural action programming planning agent logic programs and reactive behavior based agents The only prerequisite for understanding the material in these lecture notes is some general programming experience and basic knowledge of classical first order logic Table of Contents Introduction Mathematical Preliminaries Procedural Action Programs Action Programs and Planning Declarative Action Programs Reactive Action Programs Suggested Further Reading

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 demonstrates 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 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 Lifelong Machine Learning Zhiyuan Chaudhri, Bing Liu, 2022-11-10

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

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

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

[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

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

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 formulae, and Problog, a probabilistic extension of logic programs that can also be viewed as a Turing complete relational extension of Bayesian networks.

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