# Rational agents

- An agent is an entity that perceives and acts
- This course is about designing rational agents
- Abstractly, an agent is a function from percept histories to actions:

$$[f: \mathcal{P}^{\star} \xrightarrow{\phantom{\star}} \mathcal{A}]$$

- For any given class of environments and tasks, we seek the agent (or class of agents) with the best performance
- Caveat: computational limitations make perfect rationality unachievable
  - → design best program for given machine resources

# **Reasoning About Rational Agents**

Rafael H. Bordini,Mehdi Dastani,Jürgen Dix,Amal El Fallah Seghrouchni

#### **Reasoning About Rational Agents:**

**Reasoning about Rational Agents** Michael Wooldridge, 2003-01-01 This book focuses on the belief desire intention BDI model of rational agents which recognizes the primacy of beliefs desires and intentions in rational action One goal of modern computer science is to engineer computer programs that can act as autonomous rational agents software that can independently make good decisions about what actions to perform on our behalf and execute those actions Applications range from small programs that intelligently search the Web buying and selling goods via electronic commerce to autonomous space probes This book focuses on the belief desire intention BDI model of rational agents which recognizes the primacy of beliefs desires and intentions in rational action The BDI model has three distinct strengths an underlying philosophy based on practical reasoning in humans a software architecture that is implementable in real systems and a family of logics that support a formal theory of rational agency The book introduces a BDI logic called LORA Logic of Rational Agents In addition to the BDI component LORA contains a temporal component which allows one to represent the dynamics of how agents and their environments change over time and an action component which allows one to represent the actions that agents perform and the effects of the actions The book shows how LORA can be used to capture many components of a theory of rational agency including such notions as communication and cooperation **Reasoning about Rational Agents** Michael J. Wooldridge, 2000 One goal of modern computer science is to engineer computer programs that can act as autonomous rational agents software that can independently make good decisions about what actions to perform on our behalf and execute those actions Applications range from small programs that intelligently search the Web buying and selling goods via electronic commerce to autonomous space probes This book focuses on the belief desire intention BDI model of rational agents which recognizes the primacy of beliefs desires and intentions in rational action The BDI model has three distinct strengths an underlying philosophy based on practical reasoning in humans a software architecture that is implementable in real systems and a family of logics that support a formal theory of rational agency. The book introduces a BDI logic called LORA Logic of Rational Agents In addition to the BDI component LORA contains a temporal component which allows one to represent the dynamics of how agents and their environments change over time and an action component which allows one to represent the actions that agents perform and the effects of the actions The book shows how LORA can be used to capture many components of a theory of rational agency including such notions as communication and Practical Reasoning and Ethical Decision Robert Audi, 2006-03-20 Presenting the most comprehensive cooperation and lucid account of the topic currently available Robert Audi s Practical Reasoning and Ethical Decision is essential reading for anyone interested in the role of reason in ethics or the nature of human action The first part of the book is a detailed critical overview of the influential theories of practical reasoning found in Aristotle Hume and Kant whilst the second part examines practical reasoning in the light of important topics in moral psychology weakness of will self deception

rationalization and others In the third part Audi describes the role of moral principles in practical reasoning and clarifies the way practical reasoning underlies ethical decisions He formulates a comprehensive set of concrete ethical principles explains how they apply to reasoning about what to do and shows how practical reasoning guides moral conduct Collective Rationality and Collective Reasoning Christopher McMahon, 2001-08-06 This book examines the issue of rational cooperation especially cooperation between people with conflicting moral commitments The first part considers how the two main aspects of cooperation the choice by a group of a particular cooperative scheme and the decision by each member to contribute to that scheme can be understood as guided by reason The second part explores how the activity of reasoning itself can take a cooperative form The book is distinctive in offering an account of what people can accomplish by reasoning together of the role of deliberation in democratic decision making and of the negotiation of the proper use of concepts Presenting for the first time a detailed analysis of the general problem of cooperation and collective reasoning between people with different moral commitments this book will be of particular interest to philosophers of the social sciences and to students in political science sociology and economics Cambridge Press ECAI 2004 Ramon López de Mántaras, Lorenza Saitta, 2004 This is the Golden Age for Artificial Intelligence The world is becoming increasingly automated and wired together This also increases the opportunities for AI to help people and commerce Almost every sub field of AI had now been used in substantial applications Some of the fields highlighted in this publication are CBR Technology Model Based Systems Data Mining and Natural Language Techniques Not only does this publication show the activities capabilities and accomplishments of the sub fields it also focuses on what is happening across the field as a whole **Reasons Without Persons** Brian Hedden, 2015 Brian Hedden defends a radical view about rationality personal identity and time He argues that what it is rational to do should not depend on your past beliefs or actions which are not part of your current perspective on the world His impersonal approach holds that what rationality demands of you is solely determined by your evidence

**Foundations of Rational Agency** Michael Wooldridge,A. Rao,2013-03-09 Over the past decade rational agency has come to be recognised as a central theme in artificial intelligence Drawing upon research on rational action and agency in philosophy logic game theory decision theory and the philosophy of language this volume represents an advanced comprehensive state of the art survey of the field of rational agency as it stands today It covers the philosophical foundations of rational agency logical and decision theoretic approaches to rational agency multi agent aspects of rational agency including speech acts joint plans and cooperation protocols and finally describes a number of approaches to programming rational agents Although written from the standpoint of artificial intelligence this interdisciplinary text will be of interest to researchers in logic mainstream computer science the philosophy of rational action and agency and economics *An Introduction to MultiAgent Systems* Michael Wooldridge,2002-05-13 This book will introduce students to intelligent agents explain what these agents are how they are constructed and how they can be made to co operate effectively with one another

in large scale systems Bayesian Rationality Mike Oaksford, Nick Chater, 2007-02-22 For almost 2 500 years the Western concept of what is to be human has been dominated by the idea that the mind is the seat of reason humans are almost by definition the rational animal In this text a more radical suggestion for explaining these puzzling aspects of human reasoning Multi-Agent Programming: Rafael H. Bordini, Mehdi Dastani, Jürgen Dix, Amal El Fallah is put forward Seghrouchni, 2009-06-13 Multi Agent Systems are a promising technology to develop the next generation open distributed complex software systems The main focus of the research community has been on the development of concepts concerning both mental and social attitudes architectures techniques and general approaches to the analysis and specification of multi agent systems This contribution has been fragmented without any clear way of putting it all together rendering it inaccessible to students and young researchers non experts and practitioners Successful multi agent systems development is guaranteed only if we can bridge the gap from analysis and design to effective implementation Multi Agent Programming Languages Tools and Applications presents a number of mature and influential multi agent programming languages platforms development tools and methodologies and realistic applications summarizing the state of the art in an accessible manner for professionals and computer science students at all levels Common Sense, Reasoning, & Rationality Renée Elio,2002 While common sense and rationality have often been viewed as two distinct features in a unified cognitive map this volume engages with this notion and comes up with novel and often paradoxical views of this relationship **Reasoning of** State Brian C. Rathbun, 2019-02-14 Challenges the assumption of the rationality of foreign policy makers in international relations showing how leaders systematically vary in the rationality of their thinking **Reasoning Robots** Michael Thielscher, 2005-07-05 The creation of intelligent robots is surely one of the most exciting and ch lenginggoals of Arti cial Intelligence A robot is rst of all nothing but an inanimate machine with motors and sensors In order to bring life to it the machine needs to be programmed so as to make active use of its hardware c ponents This turns a machine into an autonomous robot Since about the mid nineties of the past century robot programming has made impressive progress State of the art robots are able to orient themselves and move around freely in indoor environments or negotiate di cult outdoor terrains they can use stereo vision to recognize objects and they are capable of simple object manipulation with the help of arti cial extremities At a time where robots perform these tasks more and more reliably weare ready to pursue the next big step which is to turn autonomous machines into reasoning robots Areasoning robot exhibits higher cognitive capabilities like following complex and long term strategies making rational decisions on a high level drawing logical conclusions from sensor information acquired over time devising suitable plans and reacting sensibly in unexpected situations All of these capabilities are characteristics of human like intelligence and ultimately distinguish truly intelligent robots from mere autonomous machines Multi-Agent-Systems and Applications II Vladimír Mařík, 2002 This book presents a collection of thoroughly refereed papers drawn together from three meetings on multi agent systems Five of the tutorial lectures included were

presented at the ACAI EASSS 2001 summer school on MAS held in Prague Czech Republic in July 2001 seven revised reviewed student papers dealing with various aspects of MAS are included as well A workshop on Adaptability and Embodiment using MAS AEMAS 2001 also held in Prague Czech Republic concurrently with the ACAI EASSS summer school is represented by three papers Finally a further nine papers were selected from an International Workshop on Industrial Applications of Holonic and Multi Agent Systems HoloMAS 2001 held in Munich Germany in September 2001 Aaents and Goals in Evolution Samir Okasha, 2018-06-12 Samir Okasha approaches evolutionary biology from a philosophical perspective in Agents and Goals in Evolution analysing a mode of thinking in biology called agential thinking He considers how the paradigm case involves treating an evolved organism as if it were an agent pursuing a goal such as survival or reproduction and seeing its phenotypic traits as strategies for achieving that goal or furthering its biological interests As agential thinking deliberately transposes a set of concepts goals interests strategies from rational human agents and to the biological world more generally Okasha's enquiry firstly looks at the justification for this is it mere anthropomorphism or does it play a genuine intellectual role in the science From this central question key points are considered such as how do we identify the goal that evolved organisms will behave as if they are trying to achieve Can agential thinking ever be applied to groups rather than to individual organisms And how does agential thinking relate to the controversies over fitness maximization in evolutionary biology In addition Okasha examines the relation between the adaptive and the rational by considering whether organisms can validly be treated as agent like Should we expect their evolved behaviour to correspond with that of rational agents as codified in the theory of rational choice If so does this mean that the fitness maximizing paradigm of the evolutionary biologist can be mapped directly to the utility maximizing paradigm of the rational choice theorist All of these important guestions are engagingly raised and discussed at length **Computational Logic in Multi-Agent Systems** Fariba Sadri, 2008-10-23 Multi agent systems are communities of problem solving entities that can exhibit varying degrees of intelligence They can perceive and react to their environment they can have individual or joint goals for which they can plan and execute actions Work on such systems integrates many technologies and concepts in ti cial intelligence and other areas of computing as well as other disciplines The agent paradigm has become widely popular and widely used in recent years due to its applicability to a large range of domains from search engines to edu tional aids to electronic commerce and trade e procurement recommendation systems simulation and routing and ambient intelligence to cite only some Computational logic provides a well de ned general and rigorous framework for studying syntax semantics and procedures for various capabilities and fu tionalities of individual agents as well as interaction amongst agents in multi agent systems It also provides a well de ned and rigorous framework for implementions environments tools and standards and for linking together speci cation and veri cation of properties of individual agents and multi agent systems The CLIMA workshop series was founded to provide a forum for discussing presenting and promoting computational logic based approaches in the design development analysis

and application of multi agent systems <u>Rationality + Consciousness = Free Will</u> David Hodgson,2012-01-04 The author examines the idea of free will arguing that consideration of human rationality and consciousness together gives us free will

**Putting Logic in Its Place** David Christensen, 2004-11-04 What role if any does formal logic play in characterizing epistemically rational belief Traditionally belief is seen in a binary way either one believes a proposition or one doesn't Given this picture it is attractive to impose certain deductive constraints on rational belief that one s beliefs be logically consistent and that one believe the logical consequences of one s beliefs A less popular picture sees belief as a graded phenomenon This picture explored more by decision theorists and philosophers of science that by mainstream epistemologists invites the use of probabilistic coherence to constrain rational belief But this latter project has often involved defining graded beliefs in terms of preferences which may seem to change the subject away from pistemic rationality Putting Logic in its Place explores the relations between these two ways of seeing beliefs It argues that the binary conception although it fits nicely with much of our commonsense thought and talk about belief cannot in the end support the traditional deductive constraints on rational belief Binary beliefs that obeyed these constraints could not answer to anything like our intuitive notion of epistemic rationality and would end up having to be divorced from central aspects of ourcognitive practical and emotional lives But this does not mean that logic plays no role in rationality Probabilistic coherence should be viewed as using standard logic to constrain rational graded belief This probabilistic constraint helps explain the appeal of the traditional deductive constraints and even underlies the force of rationally persuasive deductive arguments Graded belief cannot be defined in terms of preferences But probabilistic coherence may be defended without positing definitional connections between beliefsand preferences Like the traditional deductive constraints coherence is a logical ideal that humans cannot fully attain Nevertheless it furnishes a compelling way of understanding a key dimension of epistemic rationality Reasonina About Knowledge Ronald Fagin, Joseph Y. Halpern, Yoram Moses, Moshe Vardi, 2004-01-09 Reasoning about knowledge particularly the knowledge of agents who reason about the world and each other s knowledge was once the exclusive province of philosophers and puzzle solvers More recently this type of reasoning has been shown to play a key role in a surprising number of contexts from understanding conversations to the analysis of distributed computer algorithms Reasoning About Knowledge is the first book to provide a general discussion of approaches to reasoning about knowledge and its applications to distributed systems artificial intelligence and game theory It brings eight years of work by the authors into a cohesive framework for understanding and analyzing reasoning about knowledge that is intuitive mathematically well founded useful in practice and widely applicable The book is almost completely self contained and should be accessible to readers in a variety of disciplines including computer science artificial intelligence linguistics philosophy cognitive science and game Thinking about Acting John L. Pollock, 2006-07-27 John theory Each chapter includes exercises and bibliographic notes Pollock aims to construct a theory of rational decision making for real agents not ideal agents Real agents have limited

cognitive powers but traditional theories of rationality have applied only to idealized agents that lack such constraints Pollock argues that theories of ideal rationality are largely irrelevant to the decision making of real agents Thinking about Acting aims to provide a theory of real rationality

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# **Table of Contents Reasoning About Rational Agents**

- 1. Understanding the eBook Reasoning About Rational Agents
  - $\circ\,$  The Rise of Digital Reading Reasoning About Rational Agents
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Reasoning About Rational Agents
  - $\circ\,$  Exploring Different Genres
  - $\circ\,$  Considering Fiction vs. Non-Fiction
  - $\circ\,$  Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - $\circ~$  Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Reasoning About Rational Agents
  - $\circ~$  User-Friendly Interface
- 4. Exploring eBook Recommendations from Reasoning About Rational Agents
  - $\circ\,$  Personalized Recommendations
  - Reasoning About Rational Agents User Reviews and Ratings
  - $\circ\,$  Reasoning About Rational Agents and Bestseller Lists
- 5. Accessing Reasoning About Rational Agents Free and Paid eBooks
  - Reasoning About Rational Agents Public Domain eBooks
  - Reasoning About Rational Agents eBook Subscription Services

- Reasoning About Rational Agents Budget-Friendly Options
- 6. Navigating Reasoning About Rational Agents eBook Formats
  - $\circ\,$  ePub, PDF, MOBI, and More
  - $\circ\,$  Reasoning About Rational Agents Compatibility with Devices
  - $\circ\,$  Reasoning About Rational Agents Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - $\circ\,$  Adjustable Fonts and Text Sizes of Reasoning About Rational Agents
  - $\circ\,$  Highlighting and Note-Taking Reasoning About Rational Agents
  - $\circ\,$  Interactive Elements Reasoning About Rational Agents
- 8. Staying Engaged with Reasoning About Rational Agents
  - $\circ$  Joining Online Reading Communities
  - $\circ\,$  Participating in Virtual Book Clubs
  - $\circ\,$  Following Authors and Publishers Reasoning About Rational Agents
- 9. Balancing eBooks and Physical Books Reasoning About Rational Agents
  - $\circ\,$  Benefits of a Digital Library
  - $\circ\,$  Creating a Diverse Reading Collection Reasoning About Rational Agents
- 10. Overcoming Reading Challenges
  - $\circ\,$  Dealing with Digital Eye Strain
  - $\circ$  Minimizing Distractions
  - $\circ$  Managing Screen Time
- 11. Cultivating a Reading Routine Reasoning About Rational Agents
  - $\circ\,$  Setting Reading Goals Reasoning About Rational Agents
  - $\circ\,$  Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Reasoning About Rational Agents
  - $\circ\,$  Fact-Checking eBook Content of Reasoning About Rational Agents
  - $\circ\,$  Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - $\circ\,$  Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- $\circ\,$  Integration of Multimedia Elements
- $\circ\,$  Interactive and Gamified eBooks

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