

Rationality Postulates for Induction

Peter A. Flach[†]

Abstract. I study the process of inductive hypothesis formation from two perspectives: finding general rules that explain given specific evidence, and finding general rules that are confirmed by the evidence. Both forms of hypothesis formation are axiomatised on the metalevel of consequence relations, which provides us with a set of rationality postulates for various forms of induction.

1. Introduction

In this paper I develop a rationality theory of inductive reasoning, applying the methodology of Kraus, Lehmann & Magidor (1990) to views on philosophy of science developed by Peirce and Hempel. This introductory section sketches the motivation for this paper, defines the main concepts and notation, and provides an overview.

1.1 Motivation

Consider a reasoning agent R that, upon observing several black crows, conjectures that all crows are black. Such an agent is said to reason *inductively*: from specific observations about members of a class it tentatively draws general conclusions about the whole class. Clearly, not any general conclusion will do: for instance, R couldn't conclude that all crows are white. Thus, we may draw a distinction between rational and irrational behaviour of R . This paper studies limits of rational behaviour of inductive reasoning agents.

In the ideal case, rationality simply prescribes what conclusions are allowed from what premisses, as in the case of formal deductive reasoning, where rationality is defined by a fixed notion of (deductive) validity. In the general case, however, rationality draws a distinction between reasoning behaviours that is more complex than distinguishing between valid and invalid arguments. For instance, inductive rationality as studied in this paper does not prescribe the number of black crows one must have observed before adopting the hypothesis 'all crows are black', but it does prescribe that once one adopts this hypothesis, observation of yet another black crow cannot be a reason to reject it. This establishes a rationality principle of the form 'if a reasoning agent accepts this inductive argument, it should also accept that inductive argument'. Most of the rationality principles we will consider in this paper are of this form. Other possible forms we will consider are 'if a reasoning agent accepts this inductive

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Rationality Of Induction

Stefán Snævarr



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The Rationality of Induction D.C. Stove, 1986 The Rationality Project Lantz Miller, 2024-05-06 Rationality has been philosophers concern stretching back to ancient times But just what is rationality In trying to answer this question rationality is found to be more complex than supposed This book investigates this supposition and thereby aspires to bring together the facets of the peculiar phenomenon that is rationality Rationality is shown to be both more complex than presumed and yet more accessible than many may have feared One argument concedes the common assumption that those interested in rationality need only rely on intuitions about this phenomenon Yet even moderate research reveals the concept s profound fuzziness This book aims to set forth a theory explanation and unification of the kindred and disparate understandings of this elusive concept rationality **Epistemic Game Theory** Andrés Perea, 2012-06-07 The first textbook to explain the principles of epistemic game theory *The Handbook of Rationality* Markus Knauff, Wolfgang Spohn, 2021-12-14 The first reference on rationality that integrates accounts from psychology and philosophy covering descriptive and normative theories from both disciplines Both analytic philosophy and cognitive psychology have made dramatic advances in understanding rationality but there has been little interaction between the disciplines This volume offers the first integrated overview of the state of the art in the psychology and philosophy of rationality Written by leading experts from both disciplines The Handbook of Rationality covers the main normative and descriptive theories of rationality how people ought to think how they actually think and why we often deviate from what we can call rational It also offers insights from other fields such as artificial intelligence economics the social sciences and cognitive neuroscience The Handbook proposes a novel classification system for researchers in human rationality and it creates new connections between rationality research in philosophy psychology and other disciplines Following the basic distinction between theoretical and practical rationality the book first considers the theoretical side including normative and descriptive theories of logical probabilistic causal and defeasible reasoning It then turns to the practical side discussing topics such as decision making bounded rationality game theory deontic and legal reasoning and the relation between rationality and morality Finally it covers topics that arise in both theoretical and practical rationality including visual and spatial thinking scientific rationality how children learn to reason rationally and the connection between intelligence and rationality **Rationality and Coordination** Cristina Bicchieri, 1997-03-28 This major new book will be of particular interest not only to philosophers but to decision theorists political scientists economists and researchers in artificial intelligence **Rationality in Extensive Form Games** Andrés Perea, 2013-04-18 I would like to use this preface to thank some persons and institutions which have been important during the various stages of writing this book First of all I am grateful to Kluwer Academic Publishers for giving me the opportunity to write this book I started writing the book in 1998 while I was working at the Departament d Economia i d Historia Economica at Universidad Autonoma de Barcelona and continued the writing job from september 1998 to september 2000 at

the Departamento de Economfa at Universidad Carlos III de Madrid The book has been completed while I was visiting the Department of Quantitative Economics at the University of Maastricht from october 2000 to august 2001 I wish to thank these three departments for their hospitality The book has improved substantially by comments and critique from the following persons who have read parts of the manuscript Geir Asheim Eric van Damme Janos Flesch Mari Angeles de Frutos Diego Moreno Hans Peters Antonio Romero and Dries Vermeulen I should also mention my discussions with Peter Wakker about the decision theoretic foundations of noncooperative game theory which have had an important impact on various parts of the book Finally I wish to express my warmest gratitude to my parents my brother and my sister and last but not least to Cati to whom I dedicate this book

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Trames, 2000

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