

1 ABDUCTIVE AND INDUCTIVE REASONING: BACKGROUND AND ISSUES

Peter A. Flach and Antonis C. Kakas

1.1 INTRODUCTION

This collection is devoted to the analysis and application of abductive and inductive reasoning in a common context, studying their relation and possible ways for integration. There are several reasons for doing so. One reason is practical, and based on the expectation that abduction and induction are sufficiently similar to allow for a tight integration in practical systems, yet sufficiently complementary for this integration to be useful and productive.

Our interest in combining abduction and induction is not purely practical, however. Conceptually, the relation between abduction and induction is not well understood. More precisely, there are several, mutually incompatible ways to perceive this relation. For instance, Josephson writes that 'it is possible to treat every good (...) inductive generalisation as an instance of abduction' (Josephson, 1994, p.19), while Michalski has it that 'inductive inference was defined as a process of generating descriptions that imply original facts in the context of background knowledge. Such a general definition includes inductive generalisation and abduction as special cases' (Michalski, 1987, p.188).

One can argue that such incompatible viewpoints indicate that abduction and induction themselves are not well-defined. Once their definitions have been fixed, studying their relation becomes a technical rather than a conceptual matter. However, it is not self-evident why there should exist absolute, Platonic ideals of abduction and induction, waiting to be discovered and captured once and for all by an appropriate defini-

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Hussin A.Rothana



Abduction And Induction Essays On Their Relation And Integration:

Abduction and Induction P.A. Flach, Antonis C. Kakas, 2000-04-30 From the very beginning of their investigation of human reasoning philosophers have identified two other forms of reasoning besides deduction which we now call abduction and induction Deduction is now fairly well understood but abduction and induction have eluded a similar level of understanding The papers collected here address the relationship between abduction and induction and their possible integration The approach is sometimes philosophical sometimes that of pure logic and some papers adopt the more task oriented approach of AI The book will command the attention of philosophers logicians AI researchers and computer scientists in general

Computational Logic: Logic Programming and Beyond Antonis C. Kakas, Fariba Sadri, 2003-08-02 Alan Robinson This set of essays pays tribute to Bob Kowalski on his 60th birthday an anniversary which gives his friends and colleagues an excuse to celebrate his career as an original thinker a charismatic communicator and a forceful intellectual leader The logic programming community hereby and herein conveys its respect and thanks to him for his pivotal role in creating and fostering the conceptual paradigm which is its raison d'être The diversity of interests covered here reflects the variety of Bob's concerns Read on It is an intellectual feast Before you begin permit me to send him a brief personal but public message Bob how right you were and how wrong I was I should explain When Bob arrived in Edinburgh in 1967 resolution was as yet fairly new having taken several years to become at all widely known Research groups to investigate various aspects of resolution sprang up at several institutions the one organized by Bernard Meltzer at Edinburgh University being among the first For the half dozen years that Bob was a leading member of Bernard's group I was a frequent visitor to it and I saw a lot of him We had many discussions about logic computation and language

The Logic of Information Luciano Floridi, 2019-02-14 Luciano Floridi presents an innovative approach to philosophy conceived as conceptual design He explores how we make transform refine and improve the objects of our knowledge His starting point is that reality provides the data to be understood as constraining affordances and we transform them into information like semantic engines Such transformation or repurposing is not equivalent to portraying or picturing or photographing or photocopying anything It is more like cooking the dish does not represent the ingredients it uses them to make something else out of them yet the reality of the dish and its properties hugely depend on the reality and the properties of the ingredients Models are not representations understood as pictures but interpretations understood as data elaborations of systems Thus Luciano Floridi articulates and defends the thesis that knowledge is design and philosophy is the ultimate form of conceptual design Although entirely independent of Floridi's previous books *The Philosophy of Information* OUP 2011 and *The Ethics of Information* OUP 2013 *The Logic of Information* both complements the existing volumes and presents new work on the foundations of the philosophy of information

Inductive Logic Programming James Cussens, Alessandra Russo, 2017-07-15 This book constitutes the thoroughly refereed post conference proceedings of the 26th International Conference on Inductive Logic Programming ILP

2016 held in London UK in September 2016 The 10 full papers presented were carefully reviewed and selected from 29 submissions The papers represent well the current breath of ILP research topics such as predicate invention graph based learning spatial learning logical foundations statistical relational learning probabilistic ILP implementation and scalability applications in robotics cyber security and games

Progress in Artificial Intelligence Pedro Barahona, Jose J. Alferes, 2003-07-31 The Portuguese Association for Artificial Intelligence APPIA has been regularly organising the Portuguese Conference on Artificial Intelligence EPIA This ninth conference follows previous ones held in Porto 1985 Lisboa 1986 Braga 1987 Lisboa 1989 Albufeira 1991 Porto 1993 Funchal 1995 and Coimbra 1997 Starting in 1989 the conferences have been held biennially alternating with an APPIA Advanced School on Artificial Intelligence and become truly international English has been adopted as the official language and the proceedings are published in Springer's LNAI series The conference has reconformed its high international standard this year largely due to its programme committee composed of distinguished researchers in a variety of specialities in Artificial Intelligence half of them from Portuguese universities This has attracted a significant international interest well expressed by the number of papers submitted 66 from 17 different countries 29 of which are by Portuguese researchers From the 66 papers submitted about one third of them 23 were selected for oral presentation and have been published in this volume The review process enabled the selection of high quality papers each paper being reviewed by two or three reviewers either from the programme committee or by their appointment We would like to thank all of the reviewers for their excellent and hard work

Realism and Complexity in Social Science Malcolm Williams, 2020-12-30 Realism and Complexity in Social Science is an argument for a new approach to investigating the social world that of complex realism Complex realism brings together a number of strands of thought in scientific realism complexity science probability theory and social research methodology It proposes that the reality of the social world is that it is probabilistic yet there exists enough invariance to make the discovery and explanation of social objects and causal mechanisms possible This forms the basis for the development of a complex realist foundation for social research that utilises a number of new and novel approaches to investigation alongside the more traditional corpus of quantitative and qualitative methods Research examples are drawn from research in sociology epidemiology criminology social policy and human geography The book assumes no prior knowledge of realism probability or complexity and in the early chapters the reader is introduced to these concepts and the arguments against them Although the book is grounded in philosophical reasoning this is in a direct and accessible style that will appeal both to social researchers with a methodological interest and philosophers with an interest in social investigation

Against the Grain Bradley B. Walters, 2008-01-17 Against the Grain gathers scholars from across disciplines to explore the work of ecological anthropologist Andrew P Vayda and the future of the study of human ecology

Weighing Interpretations in Science, Biblical Studies, and Life Matthew B. Joss, 2023-06-05 Conflicting narratives beat upon us everywhere in politics religion and even science One person's conspiracy theory seems to

be another's self-evident truth. But how are we to decide what makes one interpretation of the world better than another? Weighing Interpretations in Science, Biblical Studies and Life: The Quest for the Best Explanation argues that theories and interpretations are trying to explain the world and hence the better theory is the one that better explains the data of the world. But this raises questions: What is an explanation? How are we to rank them? What kind of inference allows us to find and reason about these explanations? This book provides a full description of this Inference to Best Explanation (IBE) and shows how IBE is at work in science, Biblical studies and even everyday life. Matthew B. Joss offers a new method of diagramming and weighing explanatory arguments for competing interpretations. In particular, the book focuses on Biblical studies, showing how this method can help in assessing and dialoging about interpretations, walking through case studies in detail. Finally, the book concludes by gesturing towards some theological implications of IBE. Namely, IBE lends itself to a bottom-up way of theologizing that is consistent with core Christian doctrines.

New Frontiers in Applied Artificial Intelligence Leszek Borzemski, Adam Grzech, Moonis Ali, 2008-06-17. The 21st International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE 2008) held in Wrocław, Poland, was an international scientific forum for researchers in the field of applied artificial intelligence. The presentations of the invited speakers and the authors focused on developing and employing methods and systems to solve real-life problems in all applied intelligence areas. The IEA/AIE conference series, chaired by Moonis Ali, has a very long tradition and it is the first time it was hosted in Poland. We received 302 papers from 52 countries. Each paper was sent to at least three Program Committee members for review. Although the general quality of the submissions was very high, only 90 best papers were selected for oral presentation and publication in the LNAI proceedings. The papers in the proceedings cover the following topics: computer vision, fuzzy system applications, robot manufacturing, data mining and knowledge discovery, neural network machine learning, natural language processing, Internet application, e-learning, heuristic search, application systems, agent-based system, evolutionary and genetic algorithms, knowledge management and other applications. These papers highlight new trends and frontiers of applied artificial intelligence and show how new research could lead to new and innovative applications. We hope you will find these works useful and inspiring for your own research. We would like to express our sincere thanks to the Program Committee members and all the reviewers for their hard work, which helped us to select the highest quality papers for the conference.

Inductive Logic Programming Stan Matwin, 2003-02-12. This book constitutes the thoroughly refereed post-proceedings of the 12th International Conference on Inductive Logic Programming (ILP 2002) held in Sydney, Australia, in July 2002. The 22 revised full papers presented were carefully selected during two rounds of reviewing and revision from 45 submissions. Among the topics addressed are: first-order decision lists, learning with description logics, bagging in ILP, kernel methods, concept learning, relational learners, description logic programs, Bayesian classifiers, knowledge discovery, data mining, logical sequences theory, learning stochastic logic programs, machine discovery and relational pattern discovery.

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