

# ABDUCTIVE INFERENCE

COMPUTATION, PHILOSOPHY,  
TECHNOLOGY



Edited by

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# Abductive Inference Computation Philosophy Technology

**Brian D. Haig**



### **Abductive Inference Computation Philosophy Technology:**

*Abductive Inference* John R. Josephson, Susan G. Josephson, 1996-08-28 This book is about abduction the logic of Sherlock Holmes and about how some kinds of abductive reasoning can be programmed in a computer The work brings together Artificial Intelligence and philosophy of science and is rich with implications for other areas such as psychology medical informatics and linguistics It also has subtle implications for evidence evaluation in areas such as accident investigation confirmation of scientific theories law diagnosis and financial auditing The book is about certainty and the logico computational foundations of knowledge it is about inference in perception reasoning strategies and building expert systems

**Abductive Reasoning and Learning** Dov M. Gabbay, Philippe Smets, 2013-04-17 This book contains leading survey papers on the various aspects of Abduction both logical and numerical approaches Abduction is central to all areas of applied reasoning including artificial intelligence philosophy of science machine learning data mining and decision theory as well as logic itself

### **Relational Thinking Styles and Natural Intelligence: Assessing Inference Patterns for**

**Computational Modeling** Chiasson, Phyllis, Tristan, Jayne, 2012-04-30 This book explores a specific set of intelligence theories unifying and quantifying to create a verifiable model of various inferencing habits Provided by publisher

**Model-Based Reasoning in Science, Technology, and Medicine** Lorenzo Magnani, Ping Li, 2007-06-30 The volume is based on papers presented at the international conference on Model Based Reasoning in Science and Medicine held in China in 2006 The presentations explore how scientific thinking uses models and explanatory reasoning to produce creative changes in theories and concepts The contributions to the book are written by researchers active in the area of creative reasoning in science and technology They include the subject area s most recent results and achievements

**Handbook of Abductive Cognition** Lorenzo Magnani, 2023-03-31 This Handbook offers the first comprehensive reference guide to the interdisciplinary field of abductive cognition providing readers with extensive information on the process of reasoning to hypotheses in humans animals and in computational machines It highlights the role of abduction in both theory practice in generating and testing hypotheses and explanatory functions for various purposes and as an educational device It merges logical cognitive epistemological and philosophical perspectives with more practical needs relating to the application of abduction across various disciplines and practices such as in diagnosis creative reasoning scientific discovery diagrammatic and ignorance based cognition and adversarial strategies It also discusses the inferential role of models in hypothetical reasoning abduction and creativity including the process of development implementation and manipulation for different scientific and technological purposes Written by a group of internationally renowned experts in philosophy logic general epistemology mathematics cognitive and computer science as well as life sciences engineering architecture and economics the Handbook of Abductive Cognition offers a unique reference guide for readers approaching the process of reasoning to hypotheses from different perspectives and for various theoretical and practical purposes Numerous diagrams schemes and

other visual representations are included to promote a better understanding of the relevant concepts and to make concepts highly accessible to an audience of scholars and students with different scientific backgrounds *Argument Evaluation and Evidence* Douglas Walton, 2015-08-04 This monograph poses a series of key problems of evidential reasoning and argumentation It then offers solutions achieved by applying recently developed computational models of argumentation made available in artificial intelligence Each problem is posed in such a way that the solution is easily understood The book progresses from confronting these problems and offering solutions to them building a useful general method for evaluating arguments along the way It provides a hands on survey explaining to the reader how to use current argumentation methods and concepts that are increasingly being implemented in more precise ways for the application of software tools in computational argumentation systems It shows how the use of these tools and methods requires a new approach to the concepts of knowledge and explanation suitable for diverse settings such as issues of public safety and health debate legal argumentation forensic evidence science education and the use of expert opinion evidence in personal and public deliberations Recent Advances in Intelligent Technologies and Information Systems Sugumaran, Vijayan, 2014-10-31 The amount of data used in the business world has been growing at a rapid and exponential rate These large volumes of data have led not only to the rise of big data analytics but to the need for improvements and advancements in the management of it Recent Advances in Intelligent Technologies and Information Systems brings together current practices and innovations in the management and processing of diverse big data sets through technological integration Focusing on concepts such as semantic technologies open source tools and soft computing this book is an integral reference source for professionals researchers and practitioners interested in the application of technological advancements Ecotoxicology Michael C. Newman, William H. Clements, 2007-12-13 A unique presentation that unifies the field this book brings together concepts and information about contaminant effects at all levels of the biological hierarchy Beginning at the biomolecular level this book builds progressively toward a discussion of effects to the global biosphere Emphasizing ecological components and fundamental paradigms the authors strike a balance between the presentation of details relevant at each level and the integration of phenomena and processes among levels A milestone in the field the book is suitable for graduate courses as well as a reference for professionals in the field Handbook of Legal Reasoning and Argumentation Giorgio Bongiovanni, Gerald Postema, Antonino Rotolo, Giovanni Sartor, Chiara Valentini, Douglas Walton, 2018-07-02 This handbook addresses legal reasoning and argumentation from a logical philosophical and legal perspective The main forms of legal reasoning and argumentation are covered in an exhaustive and critical fashion and are analysed in connection with more general types and problems of reasoning Accordingly the subject matter of the handbook divides in three parts The first one introduces and discusses the basic concepts of practical reasoning The second one discusses the general structures and procedures of reasoning and argumentation that are relevant to legal discourse The third one looks at their instantiations

and developments of these aspects of argumentation as they are put to work in the law in different areas and applications of legal reasoning      Goal-based Reasoning for Argumentation Douglas Walton,2015-08-25 Practical argumentation is intelligent reasoning from an agent's goals and known circumstances and from an action selected as a means to arrive at a decision on what action to take This book will appeal to a wide audience from designers of multi agent and robotics systems to social scientists      Metadesigning Designing in the Anthropocene John Wood,2022-06-08 Long sighted radical and provocative this book offers a foundational framework of concepts principles and methods exemplified with selected tools to enable metadesigners to manage and reinvent their practices The book reminds readers that designers are albeit unwittingly helping to shape the Anthropocene Despite their willingness to deliver greener products and services designers find themselves part of an industry that has become the go to catalyst for dividends and profit If our species is to achieve the rehabilitation and metamorphosis we may need to design at the level of paradigms genres lifestyles and currencies This would mean making design more integrated comprehensive adaptive transdisciplinary self reflexive and relational The book therefore advocates a shift of emphasis from designing sustainable products services and systems towards cultivating synergies that will induce regenerative lifestyles The book will be of interest to managers designers scholars and educators from a wide range of backgrounds including design research design history design studies and environmental studies

**Science, Explanation, and Rationality** James H. Fetzer,2000 In this volume 13 philosophers illuminate and clarify the central problems to which Carl G Hempel was devoted The result offers readers an explanation of major developments in the philosophy of science particularly the development of logical empiricism as a major intellectual influence      **Theories of Scientific Method** Robert Nola,Howard Sankey,2014-12-18 What is it to be scientific Is there such a thing as scientific method And if so how might such methods be justified Robert Nola and Howard Sankey seek to provide answers to these fundamental questions in their exploration of the major recent theories of scientific method Although for many scientists their understanding of method is something they just pick up in the course of being trained Nola and Sankey argue that it is possible to be explicit about what this tacit understanding of method is rather than leave it as some unfathomable mystery They robustly defend the idea that there is such a thing as scientific method and show how this might be legitimated This book begins with the question of what methodology might mean and explores the notions of values rules and principles before investigating how methodologists have sought to show that our scientific methods are rational Part 2 of this book sets out some principles of inductive method and examines its alternatives including abduction IBE and hypothetico deductivism Part 3 introduces probabilistic modes of reasoning particularly Bayesianism in its various guises and shows how it is able to give an account of many of the values and rules of method Part 4 considers the ideas of philosophers who have proposed distinctive theories of method such as Popper Lakatos Kuhn and Feyerabend and Part 5 continues this theme by considering philosophers who have proposed naturalised theories of method such as Quine Laudan and Rescher This book offers readers

a comprehensive introduction to the idea of scientific method and a wide ranging discussion of how historians of science philosophers of science and scientists have grappled with the question over the last fifty years      **In Search of**

**Mechanisms** Carl F. Craver, Lindley Darden, 2024-05-31 Neuroscientists investigate the mechanisms of spatial memory Molecular biologists study the mechanisms of protein synthesis and the myriad mechanisms of gene regulation Ecologists study nutrient cycling mechanisms and their devastating imbalances in estuaries such as the Chesapeake Bay In fact much of biology and its history involves biologists constructing evaluating and revising their understanding of mechanisms With In Search of Mechanisms Carl F Craver and Lindley Darden offer both a descriptive and an instructional account of how biologists discover mechanisms Drawing on examples from across the life sciences and through the centuries Craver and Darden compile an impressive toolbox of strategies that biologists have used and will use again to reveal the mechanisms that produce underlie or maintain the phenomena characteristic of living things They discuss the questions that figure in the search for mechanisms characterizing the experimental observational and conceptual considerations used to answer them all the while providing examples from the history of biology to highlight the kinds of evidence and reasoning strategies employed to assess mechanisms At a deeper level Craver and Darden pose a systematic view of what biology is of how biology makes progress of how biological discoveries are and might be made and of why knowledge of biological mechanisms is important for the future of the human species      Cognitive Neural Mechanism of Semantic Rhetoric Qiaoyun Liao, Lijun Meng, 2022-10-21 This book is a necessary supplement to the theoretical exploration into semantic rhetoric particularly a breakthrough in the study of the relationship between the source domain and target domain involved in the construction of semantic rhetorical discourse The study focuses on rhetorical expressions constructed by means of semantic variation or deviation of concepts Based on the holistic cognitive pragmatic model and the framework of impartment and inheritance of connotation and denotation this book constructs a new framework the Annotation Denotation Relevance Inheritance Model ADRIM to explain the construing of semantic rhetoric Besides rooted in the Index Hypothesis Theory and the research paradigm of affordance derivation in language comprehension three ERP experiments on metaphor irony and pun are conducted to demonstrate the psychological reality that people activate possible feature extraction in the process of understanding semantic rhetoric With those sample analyses and experiments the feasibility and operability of ADRIM are proved The book unfolds a combined approach of speculative research and empirical research and can provide a new methodological alternative for semantic rhetorical studies in different languages This title will be an essential read to students and scholars of Linguistics East Asian Studies and social workers who are interested in Language Studies in general

Statutory Interpretation Douglas Walton, Fabrizio Macagno, Giovanni Sartor, 2021-01-21 Combining pragmatics dialectics analytics and legal theory this work translates interpretative canons into patterns of natural argument      The Blackwell Guide to the Philosophy of Computing and Information Luciano Floridi, 2008-04-15 This Guide provides an ambitious state of

the art survey of the fundamental themes problems arguments and theories constituting the philosophy of computing A complete guide to the philosophy of computing and information Comprises 26 newly written chapters by leading international experts Provides a complete critical introduction to the field Each chapter combines careful scholarship with an engaging writing style Includes an exhaustive glossary of technical terms Ideal as a course text but also of interest to researchers and general readers

### **Computer Applications for Handling Legal Evidence, Police Investigation and Case**

**Argumentation** Ephraim Nissan, 2012-06-15 This book provides an overview of computer techniques and tools especially from artificial intelligence AI for handling legal evidence police intelligence crime analysis or detection and forensic testing with a sustained discussion of methods for the modelling of reasoning and forming an opinion about the evidence methods for the modelling of argumentation and computational approaches to dealing with legal or any narratives By the 2000s the modelling of reasoning on legal evidence has emerged as a significant area within the well established field of AI Law An overview such as this one has never been attempted before It offers a panoramic view of topics techniques and tools It is more than a survey as topic after topic the reader can get a closer view of approaches and techniques One aim is to introduce practitioners of AI to the modelling legal evidence Another aim is to introduce legal professionals as well as the more technically oriented among law enforcement professionals or researchers in police science to information technology resources from which their own respective field stands to benefit Computer scientists must not blunder into design choices resulting in tools objectionable for legal professionals so it is important to be aware of ongoing controversies A survey is provided of argumentation tools or methods for reasoning about the evidence Another class of tools considered here is intended to assist in organisational aspects of managing of the evidence Moreover tools appropriate for crime detection intelligence and investigation include tools based on link analysis and data mining Concepts and techniques are introduced along with case studies So are areas in the forensic sciences Special chapters are devoted to VIRTOPSY a procedure for legal medicine and FLINTS a tool for the police This is both an introductory book possibly a textbook and a reference for specialists from various quarters

### **Toward a Visually-Oriented School Mathematics Curriculum**

Ferdinand Rivera, 2011-01-06 What does it mean to have a visual representation of a mathematical object concept or process What visualization strategies support growth in mathematical thinking reasoning generalization and knowledge Is mathematical seeing culture free How can information drawn from studies in blind subjects help us understand the significance of a multimodal approach to learning mathematics Toward a Visually Oriented School Mathematics Curriculum explores a unified theory of visualization in school mathematical learning via the notion of progressive modeling Based on the author's longitudinal research investigations in elementary and middle school classrooms the book provides a compelling empirical account of ways in which instruction can effectively orchestrate the transition from personally constructed visuals both externally drawn and internally derived into more structured visual representations within the context of a socioculturally

grounded mathematical activity Both for teachers and researchers a discussion of this topic is relevant in the history of the present The ubiquity of technological tools and virtual spaces for learning and doing mathematics has aroused interest among concerned stakeholders about the role of mathematics in these contexts The book begins with a prolegomenon on the author's reflections on past and present visual studies in mathematics education In the remaining seven chapters visualization is pursued in terms of its role in bringing about progressions in mathematical symbolization abduction pattern generalization and diagrammatization Toward a Visually Oriented School Mathematics Curriculum views issues surrounding visualization through the eyes of a classroom teacher researcher it draws on findings within and outside of mathematics education that help practitioners and scholars gain a better understanding of what it means to pleurably experience the symmetric visual symbolic reversal phenomenon that is seeing the visual in the symbolic and the symbolic in the visual

**Method Matters in Psychology** Brian D. Haig, 2018-09-25 This book applies a range of ideas about scientific discovery found in contemporary philosophy of science to psychology and related behavioral sciences In doing so it aims to advance our understanding of a host of important methodological ideas as they apply to those sciences A philosophy of local scientific realism is adopted in favor of traditional accounts that are thought to apply to all sciences As part of this philosophy the implications of a commitment to philosophical naturalism are spelt out and a correspondence theory of truth is defended by showing how it helps explain various features of scientific practice The central chapter of the book presents a broad theory of scientific method that comprises the detection of empirical phenomena and their subsequent understanding by constructing explanatory theories through the use of abductive methods This theory of scientific method is then used as a framework to reconstruct the well known qualitative method of grounded theory and to present a systematic perspective on clinical reasoning and case formulation Relatedly an abductive or explanationist understanding of methods is employed to evaluate the knowledge credentials of evolutionary psychology In addition the conceptual and methodological foundations of a variety of quantitative methods are examined Exploratory factor analysis and tests of statistical significance are given special attention



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