

ABDUCTIVE INFERENCE

COMPUTATION, PHILOSOPHY,
TECHNOLOGY



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Abductive Inference Computation Philosophy Technology

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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

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

Hitler and Abductive Logic Ben Novak, 2014-05-01 Adolf Hitler is the greatest mystery of the 20th century and the mystery surrounding him consists of two unanswered questions that have baffled biographers and historians First how did he ever rise to power Second who was he really Hitler had the power to mesmerize crowds as the most dynamic orator of the modern age Yet his power was not in his ideas which he collected from the gutter sheets of Vienna nor was it in his personality his biographers describe him as an unperson and his character as a void and a black hole What then was the source of his power Was he a medium or a magician with paranormal powers as many contemporaries thought Or did he

have a secret or method that has not yet been revealed Ben Novak spent fourteen years searching for the secret of Hitler's political success and his power as a speaker Hitler's most astute contemporary observer Konrad Heiden who wrote the first objective books on Hitler warning that this man was the greatest mass-disturber in world history suggested that Hitler's secret lay in his use of *eine eigentümliche Art von Logik* or a peculiar form of logic Beginning with this clue Novak finds that there is a new form of logic in accordance with Heiden's description and examples that can explain Hitler's phenomenal political success This new form of logic called abduction was discovered by an American philosopher Charles Sanders Peirce 1839-1914 who is rapidly becoming America's most well-known philosopher and logician Abduction is a third form of logic in addition to deduction and induction Unlike the other forms of logic abduction is based on instinct and has a power over emotions Novak argues that Hitler was the first politician to apply the logic of abduction to politics This book provides the first coherent account of Hitler's youth that ties together all the known facts clearly showing the genesis of the strangest and most terrible man of the twentieth century while identifying the power he discovered that allowed him to break out into the world in such a terrifying way

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

[Nonlinear Pricing](#) Christopher T. May, 1999-02-22 One of the many striking applications of nonlinear technology in recent years nonlinear pricing uses cutting-edge technology to identify and exploit patterns hidden within the seemingly helter-skelter rise and fall of daily stock prices Nonlinear Pricing sheds much-needed light on the principles behind this innovative view of reality and provides clear explanations of how it is employed to predict at least partially the

unpredictable Beginning with an incisive introduction to the topic May presents the roots of nonlinearity through the examples of calendrics geometry and music He then illustrated the application and integration of various nonlinear technologies including genetic algorithms fuzzy logic fractal imaging and nonlinear dynamics to such essentials as trading strategies asset allocation risk management and derivative pricing and hedging Along with practical methodologies and a wealth of real world examples this comprehensive resource contains a glossary of terms a bibliography and in depth information on Fractal analysis power law distributions fractional Brownian motion and their relationships The Hurst Exponent the KAOS screen and its practical implementation Resonance time domain versus frequency domain Brownian motion and the Gaussian distribution Advanced concepts Soros s Reflexivity non equilibrium economics kernel of theoretical nonlinear pricing May s Law resolution and resonance Written by one of the few practitioners using this breakthrough methodology to trade the markets successfully Nonlinear Pricing fills an important niche in investment literature It is a must read for anyone seeking to understand and capitalize on twenty first century financial economics CHRISTOPHER MAY New York NY runs TLB Partners LP an onshore hedge fund and May Nonlinear US Equity Fund an offshore fund **Working Memory in Sentence Comprehension** Shravan Vasishth,2003-05-09 The first ever investigation of sentence processing in Hindi Working Memory in Sentence Comprehension studies the predictions of three existing wide coverage sentence processing models In experiments that apply these models to Hindi Shravan Vasishth develops a new sentence processing model that builds on existing theories and overcomes their empirical problems Advancing the understanding of human parsing processes this book is a landmark in cross linguistic research presenting a challenging set of sentence processing facts that will impact future theories **Pedagogy and Edusemiotics** Inna Semetsky,Andrew Stables,2014-11-27 This book represents an essential resource exploring semiotics for education Edusemiotics It opens new pathways of engaging with signs inside outside schools and across theory practice poetry art technology and politics Peter Pericles Trifonas Ontario Institute for Studies in Education University of Toronto Author of Reading Culture and Deconstructing the Machine with Jacques Derrida This trenchant collection of essays successfully integrates the scientific rigors of semiotics with a sophisticated application of creative arts in the context of both formal and informal pedagogy The groundbreaking research in this volume represents a long overdue inquiry into multiple relations and cross currents in education worldwide and as informed by such luminaries as Peirce Bakhtin Greimas Kristeva Havel and other thinkers A must to read Thomas E Peterson University of Georgia USA Author of The Revolt of the Scribe in Modern Italian Literature and numerous essays in Educational Philosophy and Theory The book comprises a series of ingenious semiotic approaches to educational theory practice and research It represents a synthesis of analytic reason with poetics and images to enrich the meaning of education John Deely Professor of Philosophy University of St Thomas Houston USA Author of Four Ages of Understanding The First Postmodern Survey of Philosophy from Ancient Times to the Turn of the Twenty First Century **Inter-Domain**

Management Arosha K. Bandara, 2007-06-11 This book constitutes the refereed proceedings of the First International Conference on Autonomous Infrastructure Management and Security AIMS 2007 held in Oslo Norway in June 2007 It covers scalable network management inter domain concepts promises and ubiquitous management autonomous infrastructure and security management models policy interactions security management logic and validation and networks **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

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