Conditionals: from Philosophy to Computer Science

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Conditionals From Philosophy To Computer Science

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Conditionals From Philosophy To Computer Science:

   Conditionals Gabriella Crocco,Luis Fariñas del Cerro,Andreas Herzig,1995 Understanding the role of deduction in human reasoning has been an important activity in philosophy logic and more recetnly artificial intelligence The basic patter of this kind of reasoning can be represented by conditional expressions of the form if then There are various kinds of conditionals that fit into this pattern such as counterfactual conditionals if it were the case that A then it would be the case that B causal conditionals if A then causally B action conditionals if A then B is obtained conditional obligations if A then B should be brought about generic conditionals if A then normally B etc The common pattern to all these constructions is their conditional form which connects the antecedetn to the consequent in such a way that the antecedent represents a condition or a context for the consequent The general question arises is it possible to give a formal logical account of these constructions This question is considered in this volume by a group of internationally recognized pure and applied logicians and computer scientists Their papers reflect all the current research in this subject and should serve as a guide for future development   *Conditionals, Information, and Inference* Gabriele Kern-Isberner,Wilhelm Rödder,Friedhelm Kulmann,2005-05-13 Conditionals are fascinating and versatile objects of knowledge representation On the one hand they may express rules in a very general sense representing for example plausible relationships physical laws and social norms On the other hand as default rules or general implications they constitute a basic tool for reasoning even in the presence of uncertainty In this sense conditionals are intimately connected both to information and inference Due to their non Boolean nature however conditionals are not easily dealt with They are not simply true or false rather a conditional if A then B provides a context A for B to be plausible or true and must not be confused with A entails B or with the material implication not A or B This ill trates how conditionals represent information understood in its strict sense as reduction of uncertainty To learn that in the context A the proposition B is plausible may reduce uncertainty about B and hence is information The ab ity to predict such conditioned propositions is knowledge and as such earlier acquired information The rst work on conditional objects dates back to Boole in the 19th c tury and the interest in conditionals was revived in the second half of the 20th century when the emerging Arti cial Intelligence made claims for appropriate formaltoolstohandle generalizedrules Sincethen conditionalshavebeenthe topic of countless publications each emphasizing their relevance for knowledge representation plausible reasoning nonmonotonic inference and belief revision   **Handbook of Philosophical Logic** Dov M. Gabbay,Franz Guenthner,2013-06-29 It is with great pleasure that we are presenting to the community the second edition of this extraordinary handbook It has been over 15 years since the publication of the first edition and there have been great changes in the landscape of philosophical logic since then The first edition has proved invaluable to generations of students and researchers in formal philosophy and language as well as to consumers of logic in many applied areas The main logic artiele in the Encyelopaedia Britannica 1999 has described the first edition as the best starting point for exploring any of the

topics in logic We are confident that the second edition will prove to be just as good The first edition was the second handbook published for the logic commu nity It followed the North Holland one volume Handbook 0 Mathematical Logic published in 1977 edited by the late Jon Barwise The four volume Handbook 0 Philosophical Logic published 1983 1989 came at a fortunate temporal junction at the evolution of logic This was the time when logic was gaining ground in computer science and artificial intelligence cireles These areas were under increasing commercial press ure to provide devices which help andjor replace the human in his daily activity This pressure required the use of logic in the modelling of human activity and organisa tion on the one hand and to provide the theoretical basis for the computer program constructs on the other

The Epistemology of Indicative Conditionals Igor Douven,2016 Addresses central questions concerning conditionals by combining the methods of formal epistemology with those of cognitive psychology   Conditionals Nicholas Rescher,2007-05-04 A unified treatment of conditionals based on epistemological principles rather than the semantical principles in vogue over recent decades This book by distinguished philosopher Nicholas Rescher seeks to clarify the idea of what a conditional says by elucidating the information that is normally transmitted by its utterance The result is a unified treatment of conditionals based on epistemological principles rather than the semantical principles in vogue over recent decades This approach argues Rescher makes it easier to understand how conditionals actually function in our thought and discourse In its concern with what language theorists call pragmatics the study of the norms and principles governing our use of language in conveying information Conditionals steps beyond the limits of logic as traditionally understood and moves into the realm claimed by theorists of artificial intelligence as they try to simulate our actual information processing practices The book s treatment of counterfactuals essentially revives an epistemological approach proposed by F P Ramsey in the 1920s and developed by Rescher himself in the 1960s but since overshadowed by the now dominant possible worlds approach Rescher argues that the increasingly evident liabilities of the possible worlds strategy make a reappraisal of the older style of analysis both timely and desirable As the book makes clear an epistemological approach demonstrates that counterfactual reasoning unlike inductive inference is not a matter of abstract reasoning alone but one of good judgment and common sense   **A Philosophical Guide to Conditionals** Jonathan Bennett,2003 The author one of the world s leading authorities on the subject of conditional sentences distils many years work and teaching into A Philosophical Guide to Conditionals an authoritative treatment of the subject   LOGIC: Lecture Notes for Philosophy, Mathematics, and Computer Science Andrea Iacona,2021-05-10 This textbook is a logic manual which includes an elementary course and an advanced course It covers more than most introductory logic textbooks while maintaining a comfortable pace that students can follow The technical exposition is clear precise and follows a paced increase in complexity allowing the reader to get comfortable with previous definitions and procedures before facing more difficult material The book also presents an interesting overall balance between formal and philosophical discussion making it suitable for both philosophy and more formal science oriented

students This textbook is of great use to undergraduate philosophy students graduate philosophy students logic teachers undergraduates and graduates in mathematics computer science or related fields in which logic is required *Conditional Reasoning* Raymond S. Nickerson,2015 This book reviews the work of prominent psychologists and philosophers on conditional reasoning It provides empirical research on how people deal with conditional arguments and examines how conditional statements are used and interpreted in everyday communication It also includes philosophical and theoretical treatments of the mental processes that support conditional reasoning making it an ideal resource for students teachers and researchers with a focus in cognition across disciplines <u>Norms, Logics and Information Systems</u> Paul McNamara,Henry Prakken,1999 This book presents research in an interdisciplinary field resulting from the vigorous and fruitful cross pollination between traditional deontic logic and computer science AI researchers have used deontic logic as one of the tools in modelling legal reasoning Computer scientists have discovered that computer systems including their interaction with other computer systems and with human agents can often be productively modelled as norm governed So for example deontic logic has been applied by computer scientists for specifying bureaucratic systems access and security policies and soft design or integrity constraints and for modelling fault tolerance In turn computer scientists and AI researchers have also discovered and made it clear to the rest of us that various formal tools e g nonmonotonic temporal and dynamic logics developed in computer science and artificial intelligence have interesting applications to traditional issues in deontic logic This volume presents some of the best work done in this area with the selection at once reflecting the general interdisciplinary and international character that this area of research has taken on as well as reflecting the more specific recent inter disciplinary developments between traditional deontic logic and computer science **Oxford Studies in Epistemology Volume 4** Tamar Szabó Gendler,John Hawthorne,2013-04-25 This work is a major biennial volume offering a regular snapshot of state of the art work in this important field of epistemology *A Guided Tour of Artificial Intelligence Research* Pierre Marquis,Odile Papini,Henri Prade,2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI Implementing reasoning or decision making processes requires an appropriate representation of the pieces of information to be exploited This first volume starts with a historical chapter sketching the slow emergence of building blocks of AI along centuries Then the volume provides an organized overview of

different logical numerical or graphical representation formalisms able to handle incomplete information rules having exceptions probabilistic and possibilistic uncertainty and beyond as well as taxonomies time space preferences norms causality and even trust and emotions among agents Different types of reasoning beyond classical deduction are surveyed including nonmonotonic reasoning belief revision updating information fusion reasoning based on similarity case based interpolative or analogical as well as reasoning about actions reasoning about ontologies description logics argumentation and negotiation or persuasion between agents Three chapters deal with decision making be it multiple criteria collective or under uncertainty Two chapters cover statistical computational learning and reinforcement learning other machine learning topics are covered in Volume 2 Chapters on diagnosis and supervision validation and explanation and knowledge base acquisition complete the volume **Kit Fine on Truthmakers, Relevance, and Non-classical Logic** Federico L. G. Faroldi,Frederik Van De Putte,2023-11-25 This book explores some of Kit Fine s outstanding contributions to logic philosophy of language philosophy of mathematics and metaphysics among others Contributing authors address in depth issues about truthmaker semantics counterfactual conditionals grounding vagueness non classical consequence relations and arbitrary objects offering critical reflections and novel research contributions Each chapter is accompanied by an extensive commentary in which Kit Fine offers detailed responses to the ideas and themes raised by the contributors The book includes a brief autobiography and exhaustive list of his publications to this date This book is of interest to logicians of all stripes and to analytic philosophers more generally *Philosophy of Computer Science* William J. Rapaport,2023-02-01 A unique resource exploring the nature of computers and computing and their relationships to the world Philosophy of Computer Science is a university level textbook designed to guide readers through an array of topics at the intersection of philosophy and computer science Accessible to students from either discipline or complete beginners to both the text brings readers up to speed on a conversation about these issues so that they can read the literature for themselves form their own reasoned opinions and become part of the conversation by contributing their own views Written by a highly qualified author in the field the book looks at some of the central questions in the philosophy of computer science including What is philosophy for readers who might be unfamiliar with it What is computer science and its relationship to science and to engineering What are computers computing algorithms and programs Includes a line by line reading of portions of Turing s classic 1936 paper that introduced Turing Machines as well as discussion of the Church Turing Computability Thesis and hypercomputation challenges to it How do computers and computation relate to the physical world What is artificial intelligence and should we build AIs Should we trust decisions made by computers A companion website contains annotated suggestions for further reading and an instructor s manual Philosophy of Computer Science is a must have for philosophy students computer scientists and general readers who want to think philosophically about computer science A Companion to Latin American Philosophy Susana Nuccetelli,Ofelia Schutte,Otávio Bueno,2013-03-05 This comprehensive collection of original essays

written by an international group of scholars addresses the central themes in Latin American philosophy Represents the most comprehensive survey of historical and contemporary Latin American philosophy available today Comprises a specially commissioned collection of essays many of them written by Latin American authors Examines the history of Latin American philosophy and its current issues traces the development of the discipline and offers biographical sketches of key Latin American thinkers Showcases the diversity of approaches issues and styles that characterize the field **Modeling and Using Context** Paolo Bouquet,Luciano Serafini,Patrick Brézillon,Massimo Benerecetti,Francesca Castellani,2003-07-31 This volume contains the papers presented at the Second International and terdisciplinary Conference on Modeling and Using Context CONTEXT 99 held in Trento Italy from 9 to 11 September 1999 CONTEXT 99 is the second in the CONTEXT series The rst was held in Rio de Janeiro Brazil in 1997 The CONTEXT conference series is meant to provide an interdisciplinary rum where researchers can exchange ideas methodologies and results on c text and is increasingly becoming an important reference for all people doing research on context This is testi ed by the larger number of research areas that are represented at CONTEXT 99 in particular Philosophy and Cognitive Psychology were not signi cantly present at the rst conference and by the number and quality of submitted papers Speci cally we received 118 papers mostly of good or excellent quality Among them 33 28% have been accepted as full papers and 21 as short papers We think it is fair to say that the 54 papers collected in this volume provide a signi cant picture of the international research on context currently going on The notion of context plays an important role in many areas both theoretical and applied such as Formal Logic Arti cial Intelligence Philosophy Pragm ics Computational Linguistics Computer Science Cognitive Psychology **If P, Then Q** David Sanford,2011-02-25 This new edition includes three new chapters updating the book to take into account developments in the field over the past fifteen years Logic, Action and Cognition Eva Ejerhed,Sten Lindström,2012-12-06 The present volume has its origin in a meeting of philosophers linguists and cognitive scientists that was held at Umea University Sweden September 24 26 1993 The meeting was organized by the Department of Philosophy in cooperation with the Department of Linguistics and it was called UmLLI 93 the Umea Colloquium on Dynamic Approaches in Logic Language and Information The papers published here are considerably expanded and revised versions of talks presented by invited speakers at this colloquium The papers included here fall into three broad categories In the first part of the book Action we have collected papers that concern the formal theory of action the logic of nonns and the theory of rational decision The papers in the second part Belief Change concern the theory of belief dynamics in the tradition of Alchourr6n Gardenfors and Makinson The third part Cognition concerns abstract questions about knowledge and truth as well as more concrete questions about theusefuleness and tractability of various graphic representations of infonnation An additional and important topic of the colloquium concerned logical approaches to natural language For the sake of the thematic unity of this book and its appearance in the series Trends in logic the colloquium papers related to language are not included here but some of these

contributions will appear in the philosophical journal Theoria *Handbook of Epistemology* I. Niiniluoto,Matti Sintonen,Jan Wolenski,2004-03-31 The twenty eight essays in this Handbook all by leading experts in the field provide the most extensive treatment of various epistemological problems supplemented by a historical account of this field The entries are self contained and substantial contributions to topics such as the sources of knowledge and belief knowledge acquisition and truth and justification There are extensive essays on knowledge in specific fields the sciences mathematics the humanities and the social sciences religion and language Special attention is paid to current discussions on evolutionary epistemology relativism the relation between epistemology and cognitive science sociology of knowledge epistemic logic knowledge and art and feminist epistemology This collection is a must have for anybody interested in human knowledge and its fortunes and misfortunes *Counterfactuals and Scientific Realism* Michael J. Shaffer,2012-08-13 The author attempts to show that scientific realism is compatible with the presence of idealization in the sciences His main contention is that idealized theories can be treated as counterfactuals about how things are in worlds that are similar to but simpler than the actual world

Everyday Abstract Conditional Reasoning András Veszelka,2014-07-04 The interpretation of the if P then Q conditional statement is a central element in most logical systems It largely shapes how these logical systems function It is well known that although attempts have been made logical systems are principally unable to encapsulate how people reason in everyday life This is mainly due to the discrepancies between the logical abstractions of the conditional statement and its everyday interpretation Among other things this makes it difficult to design artificial intelligence based on the abstract rules of logic However the ancient logicians who rst defined the traditional interpretation of the conditional erroneously took into account more propositions than were actually being denoted They characterised the if P or R then Q relationship in place of the if P then Q relationship In relation to this they also committed the error of leaving the context undenoted which led to an unnatural interpretation of logical truth and logical necessity This mistaken interpretation is still predominant today and can also be found in several mathematical logics such as in propositional logic even though mathematical logics were allegedly created independently of the ancient Greco Roman logic Fixing these problems reveals that the correct interpretation of the conditional statement is the equivalence biconditional This equivalent interpretation is interpreted by logicians as one of the most common everyday fallacies Yet looking back on how the conditional statement was actually abstracted in the antiquity it is evident that people were right and logicians were mistaken Although the almost 50 year old experimental psychological literature on the conditional did not confirm this common everyday tendency towards the biconditional interpretation these findings are merely the result of unsystematic research Running some of the long missing experiments leads the main experimental tasks to reveal overall the basic biconditional inferences The approach presented in this book also resolves such dilemmas as the Wason s abstract selection task the paradox of the conditional statement and the Raven paradox It is also shown here that the probabilistic interpretation of the conditional statement is not in conflict with this basic equivalent

biconditional interpretation The approach is described in this book as the simplest possible non monotonic logic and pragmatic inferences context effects counterfactuals possible world semantics and psychologism are also discussed Since the conditional statement is equivalent to the universal affirmative statement in syllogisms it is plausible to observe that fixing this same error in syllogisms also makes them compatible with people s actual inferences Even the normally ambiguous Euler circles become an excellent tool to depict how this updated logic functions Finally with this new approach the root of learning processes is inherently embedded into the logical abstraction of the conditional universal affirmative statement and hence into logic in general Therefore this simple logic presented in a non technical way has the potential to bring both human reasoning and learning under the umbrella of the same abstract system This might be beneficial both for formalising psychology and for creating artificial intelligence

The Enigmatic Realm of **Conditionals From Philosophy To Computer Science**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Conditionals From Philosophy To Computer Science** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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