## Reference and Computation: An Essay in Applied Philosophy of Language

Amichai Kronfeld (Natural Language Incorporated)

Cambridge: Cambridge University Press (Studies in Natural Language Processing), 1990, xxi + 185 pp. Hardbound, ISBN 0-521-36636-4, \$49.50; Paperbound, 0-521-39982-3, \$14.95

Reviewed by John Barnden New Mexico State University

#### 1. Summary of the Book

Kronfeld's book attacks the problem of referring: How do speakers reveal what entities they are talking about? How do they choose particular referring expressions in their utterances? These questions are asked from the perspective of a plan-based theory of speech acts and communication. Utterances are viewed as acts that are intended by speakers to have certain effects on the addressees, and on the world more generally. Utterances are therefore to be planned in broadly the same way as other types of acts are.

Kronfeld's embedding of referring in speech act theory rests partly on a Gricean formulation of the literal goal of a referring expression. The relationship of this goal to the looser notion of the discourse purpose of the expression is discussed. Another aspect of the speech act theme is the discussion of two ways in which a referring expression can be intended by a speaker to be relevant: functionally relevant or conversationally relevant. Functionally relevant expressions are used primarily to lead the addressee to identify an object. Conversationally relevant descriptions are those that are intended to focus the addressee on a specific aspect of an object. Such descriptions are related to a specific type of Gricean conversational implicature.

Kronfeld carefully draws a distinction between the problem of referring and the philosophical problem of reference. The latter problem is cast as the question, "How can thoughts (and sentences that articulate them) be about objects?" (p. 13). Kronfeld covers quite a lot of ground on the philosophical problem of reference, as the problem of referring is somewhat dependent on it. Kronfeld concentrates throughout on reference to physical objects, and on referring expressions that are noun phrases. Furthermore, almost all the book is about definite descriptions, names and other expressions that refer to single, specific, physical objects, rather than to indefinite objects, several objects, or sets of objects. Kronfeld also stresses that he is not directly concerned with the anaphoric linking of pronouns to other noun phrases. He is directly concerned only with links between noun phrases and the world.

In fact, much of the book is a defense of the descriptive approach to the philosophical problem of reference in thought and in language. In this approach, to refer to an object is essentially to have or invoke a mental representation of that object. The relationship between a sentence or thought and the objects it is about is that of denotation, which in turn is a function of descriptive content. The descriptive approach

# Reference And Computation An Essay In Applied Philosophy Of Language

**Daniel Vanderveken** 

#### Reference And Computation An Essay In Applied Philosophy Of Language:

<u>Reference and Computation</u> Amichai Kronfeld,1990-08-31 On scrutinising how we refer to things in conversation we find that we rarely state explicitly what object we mean although we expect an interlocutor to discern it Dr Kronfield provides an answer to the two questions how do we successfully refer and how can a computer be programmed to achieve this

Principles of Knowledge Representation and Reasoning Bernhard Nebel, Charles Rich, William R. Swartout, 1992 Stringently reviewed papers presented at the October 1992 meeting held in Cambridge Mass address such topics as nonmonotonic logic taxonomic logic specialized algorithms for temporal spatial and numerical reasoning and knowledge representation issues in planning diagnosis and natural langu Encyclopedia of Language and Linguistics ,2005-11-24 The first edition of ELL 1993 Ron Asher Editor was hailed as the field's standard reference work for a generation Now the all new second edition matches ELL s comprehensiveness and high quality expanded for a new generation while being the first encyclopedia to really exploit the multimedia potential of linguistics. The most authoritative up to date comprehensive and international reference source in its field An entirely new work with new editors new authors new topics and newly commissioned articles with a handful of classic articles. The first Encyclopedia to exploit the multimedia potential of linguistics through the online edition Ground breaking and International in scope and approach Alphabetically arranged with extensive cross referencing Available in print and online priced separately The online version will include updates as subjects develop ELL2 includes c 7 500 000 words c 11 000 pages c 3 000 articles c 1 500 figures 130 halftones and 150 colour Supplementary audio video and text files online c 3 500 glossary definitions c 39 000 references Extensive list of commonly used abbreviations List of languages of the world including information on no of speakers language family etc Approximately 700 biographical entries now includes contemporary linguists 200 language maps in print and online Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www info sciencedirect com The first Encyclopedia to exploit the multimedia potential of linguistics Ground breaking in scope wider than any predecessor An invaluable resource for researchers academics students and professionals in the fields of linguistics anthropology education psychology language acquisition language pathology cognitive science sociology the law the media medicine computer science The most authoritative up to date comprehensive and international reference source in its field Meaning and Speech Acts: Volume 2, Formal Semantics of Success and Satisfaction Daniel Vanderveken, 1990 In Meaning and Speech Acts Daniel Vanderveken further develops the logic of speech acts and the logic of propositions to construct a general semantic theory of natural languages Computational Theories of Interaction and Agency Philip Agre, Stanley J. Rosenschein, 1996 Over time the field of artificial intelligence has developed an agent perspective expanding its focus from thought to action from search spaces to physical environments and from problem

solving to long term activity Originally published as a special double volume of the journal Artificial Intelligence this book brings together fundamental work by the top researchers in artificial intelligence neural networks computer science robotics and cognitive science on the themes of interaction and agency It identifies recurring themes and outlines a methodology of the concept of agency The seventeen contributions cover the construction of principled characterizations of interactions between agents and their environments as well as the use of these characterizations to guide analysis of existing agents and the synthesis of artificial agents Artificial Intelligence series Special Issues of Artificial Intelligence Encyclopedia of Semantics Keith Allan, 2010-04-06 Concise Encyclopedia of Semantics is a comprehensive new reference work aiming to systematically describe all aspects of the study of meaning in language It synthesizes in one volume the latest scholarly positions on the construction interpretation clarification obscurity illustration amplification simplification negotiation contradiction contraction and paraphrasing of meaning and the various concepts analyses methodologies and technologies that underpin their study It examines not only semantics but the impact of semantic study on related fields such as morphology syntax and typologically oriented studies such as grammatical semantics where semantics has made a considerable contribution to our understanding of verbal categories like tense or aspect nominal categories like case or possession clausal categories like causatives comparatives or conditionals and discourse phenomena like reference and anaphora COSE also examines lexical semantics and its relation to syntax pragmatics and cognitive linguistics and the study of how logical semantics develops and thrives often in interaction with computational linguistics As a derivative volume from Encyclopedia of Language and Linguistics Second Edition it comprises contributions from 150 of the foremost scholars of semantics in their various specializations and draws on 20 years of development in the parent work in a compact and affordable format Principally intended for tertiary level inquiry and research this will be invaluable as a reference work for undergraduate and postgraduate students as well as academics inquiring into the study of meaning and meaning relations within languages As semantics is a centrally important and inherently cross cutting area within linguistics it will therefore be relevant not just for semantics specialists but for most linguistic audiences. The first encyclopedia ever published in this fascinating and diverse field Combines the talents of the world's leading semantics specialists. The latest trends in the field authoritatively reviewed and interpreted in context of related disciplines Drawn from the richest most authoritative comprehensive and internationally acclaimed reference resource in the linguistics area Compact and affordable single Story Logic David Herman, 2004-01-01 Featuring a major synthesis and critique of volume reference format interdisciplinary narrative theory Story Logic marks a watershed moment in the study of narrative David Herman argues that narrative is simultaneously a cognitive style a discourse genre and a resource for writing Because stories are strategies that help humans make sense of their world narratives not only have a logic but also are a logic in their own right providing an irreplaceable resource for structuring and comprehending experience Story Logic brings together and pointedly examines

key concepts of narrative in literary criticism linguistics and cognitive science supplementing them with a battery of additional concepts that enable many different kinds of narratives to be analyzed and understood By thoroughly tracing and synthesizing the development of different strands of narrative theory and provocatively critiquing what narratives are and how they work Story Logic provides a powerful interpretive tool kit that broadens the applicability of narrative theory to more complex forms of stories however and wherever they appear Story Logic offers a fresh and incisive way to appreciate more fully the power and significance of narratives Possible Worlds Theory and Contemporary Narratology Alice Bell, Marie-Laure Ryan, 2019 The notion of possible worlds has played a decisive role in postclassical narratology by awakening interest in the nature of fictionality and in emphasizing the notion of world as a source of aesthetic experience in narrative texts As a theory concerned with the opposition between the actual world that we belong to and possible worlds created by the imagination possible worlds theory has made significant contributions to narratology Possible Worlds Theory and Contemporary Narratology updates the field of possible worlds theory and postclassical narratology by developing this theoretical framework further and applying it to a range of contemporary literary narratives This volume systematically outlines the theoretical underpinnings of the possible worlds approach provides updated methods for analyzing fictional narrative and profiles those methods via the analysis of a range of different texts including contemporary fiction digital fiction video games graphic novels historical narratives and dramatic texts Through the variety of its contributions including those by three originators of the subject area Lubom r Dole el Thomas Pavel and Marie Laure Ryan Possible Worlds Theory and Contemporary Narratology demonstrates the vitality and versatility of one of the most vibrant strands of contemporary narrative theory Referring in Language Lise Fontaine, Katy Jones, David Schönthal, 2023-05-25 A comprehensive and integrated approach to referring expressions and their typical and atypical use in different language contexts Machine **Conversations** Yorick Wilks, 2013-03-09 Machine Conversations a collection of some of the best research available in the practical arts of machine conversation The book describes various attempts to create practical and flexible machine conversation ways of talking to computers in an unrestricted version of English or some other language While this book employs and advances the theory of dialogue and its linguistic underpinnings the emphasis is on practice both in university research laboratories and in company research and development Since the focus is on the task and on the performance this book provides some of the first rate work taking place in industry quite apart from the academic tradition It also reveals striking and relevant facts about the tone of machine conversations and closely evaluates what users require Machine Conversations is an excellent reference for researchers interested in computational linguistics cognitive science natural language processing artificial intelligence human computer interfaces and machine learning **Culture and Styles of** Academic Discourse Anna Duszak, 2011-06-24 TRENDS IN LINGUISTICS is a series of books that open new perspectives in our understanding of language The series publishes state of the art work on core areas of linguistics across theoretical

frameworks as well as studies that provide new insights by building bridges to neighbouring fields such as neuroscience and cognitive science TRENDS IN LINGUISTICS considers itself a forum for cutting edge research based on solid empirical data on language in its various manifestations including sign languages. It regards linguistic variation in its synchronic and diachronic dimensions as well as in its social contexts as important sources of insight for a better understanding of the design of linguistic systems and the ecology and evolution of language TRENDS IN LINGUISTICS publishes monographs and outstanding dissertations as well as edited volumes which provide the opportunity to address controversial topics from different empirical and theoretical viewpoints High quality standards are ensured through anonymous reviewing

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Each chapter addresses a different stage of PhD candidature pre enrolment the first six months research design literature review data collection data analysis drafting chapters supervision and feedback publishing and the examination process Each chapter includes a set of questions for the readers to reflect on issues raised by the authors and a comprehensive list of references The book is intended for an audience of prospective and current PhD candidates PhD supervisors academic language and learning advisors who work with PhD candidates researchers working in the field of doctoral education and university administrators in pertinent leadership roles

A Network Theory of Reference Kiyoshi Ishikawa,1998

Brandial '06 David Schlangen, Raquel Fernández, 2006 **Computational Models of Referring Kees Van** Deemter, 2016-05-06 An argument that computational models can shed light on referring a fundamental and much studied aspect of communication To communicate speakers need to make it clear what they are talking about The act of referring which anchors words to things is a fundamental aspect of language In this book Kees van Deemter shows that computational models of reference offer attractive tools for capturing the complexity of referring Indeed the models van Deemter presents cover many issues beyond the basic idea of referring to an object including reference to sets approximate descriptions descriptions produced under uncertainty concerning the hearer's knowledge and descriptions that aim to inform or influence the hearer The book which can be read as a case study in cognitive science draws on perspectives from across the cognitive sciences including philosophy experimental psychology formal logic and computer science Van Deemter advocates a combination of computational modeling and careful experimentation as the preferred method for expanding these insights He then shows this method in action covering a range of algorithms and a variety of methods for testing them He shows that the method allows us to model logically complicated referring expressions and demonstrates how we can gain an understanding of reference in situations where the speaker's knowledge is difficult to assess or where the referent resists exact definition Finally he proposes a program of research that addresses the open questions that remain in this area arguing that this program can significantly enhance our understanding of human communication **Linguistic Inquiry** ,1992 Research on current topics in linguistic theory including new theoretical developments based on the latest international discoveries Success in Referential Communication M. Paul, 2013-03-09 One of the most basic themes in the philosophy of language is referential uptake viz the question of what counts as properly understanding a referring act in communication In this inquiry the particular line pursued goes back to Strawson's work on reidentification but the immediate influence is that of Gareth Evans It is argued that traditional and recent proposals fail to account for success in referential communication A novel account is developed resembling Evans account in combining an external success condition with a Fregean one But in contrast to Evans greater emphasis is placed on the action enabling side of communication Further topics discussed include the role of mental states in accounting for communication the impact of re identification on the understanding of referring acts and Donnellan's referential attributive distinction Readership

Philosophers cognitive scientists and semanticists

Computational Linguistics ,1995

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