

# Introduction To Natural Language Semantics

Natural Language Semantics Semantics of Natural Language Natural Language Semantics Current Approaches to Natural Language Semantics Natural Language Semantics Natural Language Semantics Philosophy of Language: Semantics Introduction to Natural Language Semantics Bayesian Natural Language Semantics and Pragmatics Natural language semantics [electronic journal]. Feature System for Quantification Structures in Natural Language Abstract Objects and the Semantics of Natural Language Formal Semantics of Natural Language Natural Language Understanding and Logic Programming, III Linguistics and Language Behavior Abstracts A Concise History of Linguistic Semantics I Language and ontology Formal Semantics and Pragmatics for Natural Languages Proceedings from Semantics and Linguistic Theory Keith Allan D. Davidson Brendan S. Gillon Chrysanne DiMarco Aloysius Martinich Henriëtte de Swart Henk Zeevat Irena Bellert Friederike Moltmann Edward L. Keenan Veronica Dahl Victor Raskin Werner Leinfellner Franz Guenthner Natural Language Semantics Semantics of Natural Language Natural Language Semantics Current Approaches to Natural Language Semantics Natural Language Semantics Natural Language Semantics Philosophy of Language: Semantics Introduction to Natural Language Semantics Bayesian Natural Language Semantics and Pragmatics Natural language semantics [electronic journal]. Feature System for Quantification Structures in Natural Language Abstract Objects and the Semantics of Natural Language Formal Semantics of Natural Language Natural Language Understanding and Logic Programming, II Linguistics and Language Behavior Abstracts A Concise History of Linguistic Semantics I Language and ontology Formal Semantics and Pragmatics for Natural Languages Proceedings from Semantics and Linguistic Theory Keith Allan D. Davidson Brendan S. Gillon Chrysanne DiMarco Aloysius Martinich Henriëtte de Swart Henk Zeevat Irena Bellert Friederike Moltmann Edward L. Keenan Veronica Dahl Victor Raskin Werner Leinfellner Franz Guenthner

natural language semantics discusses fundamental concepts for linguistic semantics this book combines theoretical explanations of several methods of inquiry with detailed semantic analysis and emphasises the philosophy that semantics is about meaning in human languages and that linguistic meaning is cognitively and functionally motivated

the idea that prompted the conferenee for which many of these papers were written and that inspired this book is stated in the editorial introduction reprinted below from volume 21 of synthese the present

volume contains the artiicles in synthese 21 numbers 3 4 and synthese 22 numbers 1 2 in addition it ineludes new papers by saul kripke james mccawley john r ross and paul ziff and reprints grammar and philosophy by p f strawson strawson s article first appeared in the proceedings of the aristotelian society volume 70 and is reprinted with the kind permission of the author and the aristotelian society we also repeat our thanks to the olivetti companyand edizione di comunita of milan for permission to inelude the paper by dana scott it also appeared in synthese 21 donalo davidson gilbert harman editorial introduction the success of linguistics in treating naturallanguages as formal syntactic systems has aroused the interest of a number of linguists in a parallel or related development of semantics for the most part quite independ ently many philosophers and logicians have reently been applying formal semantic methods to structures increasingly like naturallanguages while differenees in training method and vocabulary tend to veil the fact philosophers and linguists are converging it seerns on a common set of interrelated probiems sinee philosophers and linguists are working on the same or very similar probiems it would obviously be instructive to compare notes

an introduction to natural language semantics that offers an overview of the empirical domain and an explanation of the mathematical concepts that underpin the discipline this textbook offers a comprehensive introduction to the fundamentals of those approaches to natural language semantics that use the insights of logic many other texts on the subject focus on presenting a particular theory of natural language semantics this text instead offers an overview of the empirical domain drawn largely from standard descriptive grammars of english as well as the mathematical tools that are applied to it readers are shown where the concepts of logic apply where they fail to apply and where they might apply if suitably adjusted the presentation of logic is completely self contained with concepts of logic used in the book presented in all the necessary detail this includes propositional logic first order predicate logic generalized quantifier theory and the lambek and lambda calculi the chapters on logic are paired with chapters on english grammar for example the chapter on propositional logic is paired with a chapter on the grammar of coordination and subordination of english clauses the chapter on predicate logic is paired with a chapter on the grammar of simple independent english clauses and so on the book includes more than five hundred exercises not only for the mathematical concepts introduced but also for their application to the analysis of natural language the latter exercises include some aimed at helping the reader to understand how to formulate and test hypotheses

this introduction examines the semantics of natural languages

the contributions in this volume focus on the bayesian interpretation of natural languages which is widely used in areas of artificial intelligence cognitive science and computational linguistics this is the first volume to take up topics in bayesian natural language interpretation and make proposals based on

information theory probability theory and related fields the methodologies offered here extend to the target semantic and pragmatic analyses of computational natural language interpretation bayesian approaches to natural language semantics and pragmatics are based on methods from signal processing and the causal bayesian models pioneered by especially pearl in signal processing the bayesian method finds the most probable interpretation by finding the one that maximizes the product of the prior probability and the likelihood of the interpretation it thus stresses the importance of a production model for interpretation as in grice s contributions to pragmatics or in interpretation by abduction

no detailed description available for feature system for quantification structures in natural language

abstract objects have been a central topic in philosophy since antiquity philosophers have defended various views about abstract objects by appealing to metaphysical considerations considerations regarding mathematics or science and not infrequently intuitions about natural language this book pursues the question of how and whether natural language allows for reference to abstract objects in a fully systematic way by making full use of contemporary linguistic semantics it presents a much greater range of linguistic generalizations than has previously been taken into consideration in philosophical discussions and it argues for an ontological picture is very different from that generally taken for granted by philosophers and semanticists alike reference to abstract objects such as properties numbers propositions and degrees is considerably more marginal than generally held instead natural language is rather generous in allowing reference to particularized properties tropes the use of nonreferential expressions in apparent referential position and the use of nominalizing expressions such as quantifiers like something reference to abstract objects is achieved generally only by the use of reifying terms such as the number eight

a volume of studies in natural language semantics which brings together work by philosophers logicians and linguists the main topics treated are quantification and reference in natural language the relations between formal logic programming languages and natural language pragmatics and discourse meaning surface syntax and logical meaning the volume derives from a colloquium organised in 1973 by the kings college research centre cambridge and the papers have been edited for publication by professor keenan it is hoped that the collection will make available some of the best work in this fast moving field and will stimulate further progress by juxtaposing the different approaches and interests represented here

natural language semantics and pragmatics are now two major fields in linguistics philosophy artificial intelligence and computational linguistics with the development of large and efficient prolog interpreters and compilers and with the expansion of the theoretical aspects of logic programming the study of natural language semantics and related pragmatic aspects is now becoming a very attractive topic the

proceedings of this workshop reflect these trends the papers cover almost all the current research fields in natural language including morphology syntax parser design generation feature checking and specification semantic representations and construction of cooperative responses articles on syntax deal with constraints to parsing and generation rule pruning and comparison of logic based language systems the material on the compilers involves functional logic grammars and unification based grammars the work on semantics investigates logico semantic induction data semantics comparatives conceptual graphs discourse representation and graphs papers on pragmatics discuss disambiguation cooperation with the user through integrity constraints and question interpretation through epistemic reasoning panel discussions are centered around future directions of research as well as comparisons between different points of view about actual research projects

the essays in this collection are the outgrowth of a workshop held in june 1976 on formal approaches to the semantics and pragmatics of natural languages they document in an astoundingly uniform way the developments in the formal analysis of natural languages since the late sixties the avowed aim of the workshop was in fact to assess the progress made in the application of formal methods to semantics to confront different approaches to essentially the same problems on the one hand and on the other to show the way in relating semantic and pragmatic explanations of linguistic phenomena several of these papers can in fact be regarded as attempts to close the semiotic circle by bringing together the syntactic semantic and pragmatic properties of certain constructions in an explanatory framework thereby making it more than obvious that these three components of an integrated linguistic theory cannot be as neatly separated as one would have liked to believe in other words not only can we not elaborate a syntactic description of a fragment of a language and then proceed to the semantics as montague pointed out already forcefully in 1968 we cannot hope to achieve an adequate integrated syntax and semantics without paying heed to the pragmatic aspects of the constructions involved the behavior of polarity items quantifiers like any conditionals or even logical particles like and and or in non indicative sentences is clear cut evidence for the need to let each component of the grammar inform the other

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