

Studies in Linguistics and Philosophy

Quantification
in
Natural Languages

Volume I and II

Edited by
Emmon Bach, Eloise Jelinek,
Angelika Kratzer and
Barbara H. Partee

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Quantification In Natural Languages

Edward Keenan, Denis Paperno



Quantification In Natural Languages:

Quantification in Natural Languages Emmon W. Bach, 1995-02-28 This extended collection of papers is the result of putting recent ideas on quantification to work on a wide variety of languages. A central perspective of many of the papers follows the recognition of two broad types of quantificational strategies: one associated with nominal structures and determiners, the other with adverbial and other non-nominal expressions. D quantifiers and A quantifiers. The papers demonstrate both the unity and the variety of natural language quantificational forms and meanings. Many of the papers also shed new light on questions of language typology and syntactic and morphological variation. The languages discussed include English, Dutch, Italian, American Sign Language, Hindi, and a number of languages of Australia, Greenland, and the Americas. These comparative studies provide initial data for a typology of quantificational structures in natural languages with important implications for the study of universal grammar. The book consists of research papers aimed at linguists, philosophers, and psychologists interested in semantics and linguistic form. An introduction presents a sketch of the background of this research and some of the central issues discussed, with pointers toward the included papers.

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Quantification in Natural Languages Elke Bach, E. Jelinek, A. Kratzer, Barbara B.H. Partee, 2014-01-14 This volume of papers grew out of a research project on Cross Linguistic Quantification originated by Emmon Bach, Angelika Kratzer, and Barbara Partee in 1987 at the University of Massachusetts at Amherst and supported by National Science Foundation Grant BNS 871999. The publication also reflects directly or indirectly several other related activities. Bach, Kratzer, and Partee organized a two evening symposium on cross linguistic quantification at the 1988 Annual Meeting of the Linguistic Society of America in New Orleans, held without financial support in order to bring the project to the attention of the linguistic community and solicit ideas and feedback from colleagues who might share our concern for developing a broader typological basis for research in semantics and a better integration of

descriptive and theoretical work in the area of quantification in particular The same trio organized a six week workshop and open lecture series and related one day conference on the same topic at the 1989 LSA Linguistic Institute at the University of Arizona in Tucson supported by a supplementary grant NSF grant BNS 8811250 and Partee offered a seminar on the same topic as part of the Institute course offerings Eloise Jelinek who served as a consultant on the principal grant and was a participant in the LSA symposium and the Arizona workshops joined the group of editors for this volume in 1989

Feature System for Quantification Structures in Natural Language Irena Bellert, 2020-10-26 No detailed description available for Feature System for Quantification Structures in Natural Language

Quantification in Natural Languages Elke Bach, E. Jelinek, Angelika Kratzer, Barbara Partee, 2012-10-08 This volume of papers grew out of a research project on Cross Linguistic Quantification originated by Emmon Bach Angelika Kratzer and Barbara Partee in 1987 at the University of Massachusetts at Amherst and supported by National Science Foundation Grant BNS 871999 The publication also reflects directly or indirectly several other related activities Bach Kratzer and Partee organized a two evening symposium on cross linguistic quantification at the 1988 Annual Meeting of the Linguistic Society of America in New Orleans held without financial support in order to bring the project to the attention of the linguistic community and solicit ideas and feedback from colleagues who might share our concern for developing a broader typological basis for research in semantics and a better integration of descriptive and theoretical work in the area of quantification in particular The same trio organized a six week workshop and open lecture series and related one day conference on the same topic at the 1989 LSA Linguistic Institute at the University of Arizona in Tucson supported by a supplementary grant NSF grant BNS 8811250 and Partee offered a seminar on the same topic as part of the Institute course offerings Eloise Jelinek who served as a consultant on the principal grant and was a participant in the LSA symposium and the Arizona workshops joined the group of editors for this volume in 1989

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Language 2012 by the same editors and extends the earlier work in Matthewson 2008 Gil et al 2013 and Bach et al 1995

Handbook of Quantifiers in Natural Language Edward Keenan, Denis Paperno, 2012-03-30 Covering a strikingly diverse range of languages from 12 linguistic families this handbook is based on responses to a questionnaire constructed by the editors Focusing on the formation distribution and semantic interpretation of quantificational expressions the book explores 17 languages including German Italian Russian Mandarin Chinese Malagasy Hebrew Pima Basque and more The language data sets enable detailed crosslinguistic comparison of numerous features These include semantic classes of quantifiers generalized existential generalized universal proportional partitive syntactically complex quantifiers intensive modification Boolean compounding exception phrases and several others such as quantifier scope ambiguities quantifier float and binary quantifiers Its theory independent content extends earlier work by Matthewson 2008 and Bach et al 1995 making this handbook suitable for linguists semanticists philosophers of language and logicians alike *Logical Aspects of Quantification in Natural Language* Aleksy Molczanow, 2004 Elucidates the relation between quantifiers in formal logic and quantifiers in natural language Demystifies the theoretical apparatus of contemporary logic as it provides theoretical explanations concerning quantification in natural language and idiomatic quantifiers in ordinary English in particular

Formal Semantics and Pragmatics for Natural Languages Franz Guenther, Siegfried J. Schmidt, 2012-12-06 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 Logic & Natural Language Hanoch Ben-Yami, 2019-09-16 Frege's invention of the predicate calculus has been the most influential event in the history of modern logic The calculus place in logic is so central that many philosophers think in fact of it when they think of logic This book challenges the position in contemporary logic and philosophy of language of the predicate calculus claiming that it is based on mistaken assumptions Ben Yami shows

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Model Generation for Natural Language Interpretation and Analysis Karsten Konrad, 2004-02-10 Mathematical theorem proving has undergone an impressive development during the last two decades resulting in a variety of powerful systems for applications in mathematical deduction and knowledge processing Natural language processing has become a topic of outstanding relevance in information technology mainly due to the explosive growth of the Web where by far the largest part of information is encoded in natural language documents This monograph focuses on the development of inference tools tailored to applications in natural language processing by demonstrating how the model generation paradigm can be used as a framework for the support of specific tasks in natural language interpretation and natural language based inference in a natural way The book appears at a pivotal moment when much attention is being paid to the task of adding a semantic layer to the Web and representation and processing of natural language based semantic information pops up as a primary requirement for further technological progress *The Routledge Handbook of North American Languages* Daniel Siddiqi, Michael Barrie, Carrie Gillon, Jason Haugen, Eric Mathieu, 2019-09-25 The Routledge Handbook of North American Languages is a one stop reference for linguists on those topics that come up the most frequently in the study of the languages of North America including Mexico This handbook compiles a list of contributors from across many different theories and at different stages of their careers all of whom are well known experts in North American languages The volume comprises two distinct parts the first surveys some of the phenomena most frequently discussed in the study of North American languages and the second

surveys some of the most frequently discussed language families of North America. The consistent goal of each contribution is to couch the content of the chapter in contemporary theory so that the information is maximally relevant and accessible for a wide range of audiences including graduate students and young new scholars and even senior scholars who are looking for a crash course in the topics. Empirically driven chapters provide fundamental knowledge needed to participate in contemporary theoretical discussions of these languages making this handbook an indispensable resource for linguistics scholars.

Quantifiers in Action Antonio Badia, 2009-04-03 The database industry is a multi billion world wide all encompassing part of the software world. *Quantifiers in Action: Generalized Quantification in Query Logical and Natural Languages* introduces a query language called GQs Generalized Quantification in Query. Most query languages are simply versions of First Order Logic FOL. GQs are an extension of the idea of quantifier in FOL. GQs are a perfect example of a practical theory within databases. This book provides a brief background in logic and introduces the concept of GQs and then develops a query language based on GQs. Using Query Language with Generalized Quantifiers the reader explores the efficient implementation of the concept always a primary consideration in databases. This professional book also includes several extensions for use with documents employing question and answer techniques. Designed for practitioners and researchers within the database management field also suitable for advanced level students in computer science. Truth, Meaning and

the Analysis of Natural Language Paolo Casalegno, 2014-01-08 A striking turn in the history of philosophy over recent decades has been the spread and growth of analytic philosophy in continental Europe as a major force. Paolo Casalegno was one of the best minds in the generation responsible for that change. His essays in the philosophy of logic and language are remarkable for their rigour, their originality, their good sense and the depth of knowledge behind them. Timothy Williamson Wykeham Professor of Logic New College Oxford. Paolo Casalegno was a brilliant and probing philosopher whose work contains many fundamental insights and challenges. It is wonderful to have this collection of his most important papers. Paul Boghossian Silver Professor New York University. **Knowledge Representation and the Semantics of Natural**

Language Hermann Helbig, 2005-12-19 Natural Language is not only the most important means of communication between human beings; it is also used over historical periods for the preservation of cultural achievements and their transmission from one generation to the other. During the last few decades the flood of digitalized information has been growing tremendously. This tendency will continue with the globalization of information societies and with the growing importance of national and international computer networks. This is one reason why the theoretical understanding and the automated treatment of communication processes based on natural language have such a decisive social and economic impact. In this context the semantic representation of knowledge originally formulated in natural language plays a central part because it connects all components of natural language processing systems: be they the automatic understanding of natural language analysis, the rational reasoning over knowledge bases or the generation of natural language expressions from formal representations. This

book presents a method for the semantic representation of natural language expressions texts sentences phrases etc which can be used as a universal knowledge representation paradigm in the human sciences like linguistics cognitive psychology or philosophy of language as well as in computational linguistics and in artificial intelligence It is also an attempt to close the gap between these disciplines which to a large extent are still working separately *Semantics of Natural Language D.*

Davidson, Gilbert Harman, 2012-12-06 The idea that prompted the conference 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 articles in Synthese 21 Numbers 3 4 and Synthese 22 Numbers 1 2 In addition it includes 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 Company and Edizione di Comunità of Milan for permission to include the paper by Dana Scott it also appeared in Synthese 21 DONALD DAVIDSON GILBERT HARMAN EDITORIAL INTRODUCTION The success of linguistics in treating natural languages 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 independently many philosophers and logicians have recently been applying formal semantic methods to structures increasingly like natural languages While differences in training method and vocabulary tend to veil the fact philosophers and linguists are converging it seems on a common set of interrelated problems Since philosophers and linguists are working on the same or very similar problems it would obviously be instructive to compare notes Mathematical and Computational Analysis of

Natural Language Carlos Martín Vide, 1998-01-01 In the last decade computational linguistics has produced a revival of the interest in the mathematical study of the various levels of human language This volume contains a selection of recent research papers approaching mathematical and computational topics in natural languages with a special attention being paid to syntax and semantics According with their main focus the papers are distributed into four parts Syntax Semantics Natural language processing and Varia which cover a vast range of problems The book may be of interest to all those who intend to know which kind of mathematics is used when giving account of natural language as well as to people working on

computational issues involving human machine interaction *Interperspectival Content* Peter Ludlow, 2019-01-24 Too often today it seems we find ourselves communicating from radically different perspectives on the world and we often despair of communication even being possible Peter Ludlow argues that perspectival content or what some call indexical content is ineliminable and ubiquitous running through our accounts of human action and emotions perception normative behaviour and even our theories of computation and information While such content may be ineliminable it also gives rise to philosophical puzzles particularly those involving reporting these contents from different perspectival positions Such puzzles have led some to try and abandon perspectival content and others to despair of communication across diverse perspectival

positions Ludlow argues that communication across diverse perspectival positions is not only possible but routine and develops a theory of intersperspectival content and cognitive dynamics to explain how it is accomplished

Quantifiers in Language and Logic Stanley Peters, Dag Westerståhl, 2006-04-27 Quantification is a topic which brings together linguistics logic and philosophy Quantifiers are the essential tools with which in language or logic we refer to quantity of things or amount of stuff In English they include such expressions as no some all both many Peters and Westerståhl present the definitive interdisciplinary exploration of how they work their syntax semantics and inferential role

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