Studies in Linguistics and Philosophy

# Categorial Grammars and Natural Language Structures

edited by Richard T. Oehrle, Emmon Bach and Deirdre Wheeler

Springer-Science+Business Media, B.V.

U. Reyle, C. Rohrer

Categorial Grammars and Natural Language Structures Richard T. Oehrle, E. Bach, Deirdre Wheeler, 1988-03-31 For the most part the papers collected in this volume stern from presentations given at a conference held in Tucson over the weekend of May 31 through June 2 1985 We wish to record our gratitude to the participants in that conference as well as to the National Science Foundation Grant No BNS 8418916 and the University of Arizona SBS Research Institute for their financial support The advice we received from Susan Steele on organizational matters proved invaluable and had many felicitous consequences for the success of the conference We also would like to thank the staff of the Departments of Linguistics of the University of Arizona and the University of Massachusetts at Amherst for their help as well as a number of individuals including Lin Hall Kathy Todd and Jiazhen Hu Sandra Fulmer Maria Sandoval Natsuko Tsujimura Stuart Davis Mark Lewis Robin Schafer Shi Zhang Olivia Oehrle Steele and Paul Saka Finally we would like to express our gratitude to Martin Scrivener our editor for his patience and his encouragement VII INTRODUCTION The term categorial grammar was introduced by Bar Rillel 1964 page 99 as a handy way of grouping together some of his own earlier work 1953 and the work of the Polish logicians and philosophers Lesniewski 1929 and Ajdukiewicz 1935 in contrast to approaches to linguistic Categorial Grammars and Natural Language Structures Richard T. analysis based on phrase structure grammars Oehrle, E. Bach, Deirdre Wheeler, 2012-12-06 For the most part the papers collected in this volume stern from presentations given at a conference held in Tucson over the weekend of May 31 through June 2 1985 We wish to record our gratitude to the participants in that conference as well as to the National Science Foundation Grant No BNS 8418916 and the University of Arizona SBS Research Institute for their financial support The advice we received from Susan Steele on organizational matters proved invaluable and had many felicitous consequences for the success of the conference We also would like to thank the staff of the Departments of Linguistics of the University of Arizona and the University of Massachusetts at Amherst for their help as well as a number of individuals including Lin Hall Kathy Todd and Jiazhen Hu Sandra Fulmer Maria Sandoval Natsuko Tsujimura Stuart Davis Mark Lewis Robin Schafer Shi Zhang Olivia Oehrle Steele and Paul Saka Finally we would like to express our gratitude to Martin Scrivener our editor for his patience and his encouragement VII INTRODUCTION The term categorial grammar was introduced by Bar Rillel 1964 page 99 as a handy way of grouping together some of his own earlier work 1953 and the work of the Polish logicians and philosophers Lesniewski 1929 and Ajdukiewicz 1935 in contrast to approaches to linguistic analysis based on phrase structure grammars Categorial Grammars (RLE Linguistics B: Grammar) Mary McGee Wood, 2014-02-03 In the last few years categorial grammars have been the focus of dramatically expanded interest and activity both theoretical and computational This book the first introduction to categorical grammars is written as an objective critical assessment Categorial grammars offer a radical alternative to the phrase structure paradigm with deep roots in the philosophy of language logic and algebra Mary McGee

Wood outlines their historical evolution and discusses their formal basis starting with a quasi canonical core and considering a number of possible extensions She also explores their treatment of a number of linguistic phenomena including passives raising discontinuous dependencies and non constituent coordination as well as such general issues as word order logic psychological plausibility and parsing This introduction to categorial grammars will be of interest to final year undergraduate and postgraduate students and researchers in current theories of grammar including comparative descriptive and Natural Language Parsing and Linguistic Theories U. Reyle, C. Rohrer, 2012-12-06 computational linguistics presupposition fails we now give a short introduction into Unification Grammar Since all implementations discussed in this volume use PROLOG with the exception of BlockjHaugeneder we felt that it would also be useful to explain the difference between unification in PROLOG and in UG After the introduction to UG we briefly summarize the main arguments for using linguistic theories in natural language processing We conclude with a short summary of the contributions to this volume UNIFICATION GRAMMAR 3 Feature Structures or Complex Categories Unification Grammar was developed by Martin Kay Kay 1979 Martin Kay wanted to give a precise definition and implementation of the notion of feature Linguists use features at nearly all levels of linguistic description In phonetics for instance the phoneme b is usually described with the features bilabial voiced and nasal In the case of b the first two features get the value the third nasal gets the value Feature value pairs in phonology are normally represented as a matrix bilabial voiced I nasal Feature matrix for b In syntax features are used for example to distinguish different noun classes The Latin noun murus would be characterized by the following feature value pairs gender masculin number singular case nominative pred murus Besides a matrix representation one frequently fmds a graph representation for feature value pairs The edges of the graph are labelled by features The leaves denote the value of a Routledge Library Editions: Linguistics Various, 2021-12-02 Routledge Library Editions Linguistics brings feature together as one set mini sets or individual volumes a series of previously out of print classics from a variety of academic imprints With titles ranging from Applied Linguistics and Language Learning to Experimental Psycholinguistics and Sociolinguistics Today International Perspectives this set provides in one place a wealth of important reference sources from a wide range of authors expert in the field The Routledge Handbook of Syntax Andrew Carnie, Dan Siddigi, Yosuke Sato, 2014-04-29 The study of syntax over the last half century has seen a remarkable expansion of the boundaries of human knowledge about the structure of natural language The Routledge Handbook of Syntax presents a comprehensive survey of the major theoretical and empirical advances in the dynamically evolving field of syntax from a variety of perspectives both within the dominant generative paradigm and between syntacticians working within generative grammar and those working in functionalist and related approaches The handbook covers key issues within the field that include core areas of syntactic empirical investigation contemporary approaches to syntactic theory interfaces of syntax with other components of the human language system experimental and computational approaches to syntax Bringing together renowned linguistic

scientists and cutting edge scholars from across the discipline and providing a balanced yet comprehensive overview of the field the Routledge Handbook of Syntax is essential reading for researchers and postgraduate students working in syntactic International Encyclopedia of Linguistics William Frawley, 2003-05 The International Encyclopedia of Linguistics 2nd Edition encompasses the full range of the contemporary field of linguistics including historical comparative formal mathematical functional and philosophical linguistics with special attention given to interrelations within branches of linguistics and to relations of linguistics with other disciplines Areas of intersection with the social and behavioral sciences ethnolinguistics sociolinguistics psycholinguistics and behavioral linguistics receive major coverage along with interdisciplinary work in language and literature mathematical linguistics computational linguistics and applied linguistics Longer entries in the International Encyclopedia of Linguistics ranging up to four thousand words survey the major fields of study for example anthropological linguistics history of linguistics semantics and phonetics Shorter entries treat specific topics within these fields such as code switching sound symbolism and syntactic features Other short entries define and discuss technical terms used within the various subfields or provide sketches of the careers of important scholars in the history of linguistics such as Leonard Bloomfield Roman Jakobson and Edward Sapir A major portion of the work is its extensive coverage of languages and language families From those as familiar as English Japanese and the Romance languages to Hittite Yoruba and Nahuatl all corners of the world receive treatment Languages that are the subject of independent entries are analyzed in terms of their phonology grammatical features syntax and writing systems Lists attached to each article on a language group or family enumerate all languages extinct or still spoken within that group and provide detailed information on the number of known speakers geographical range and degree of intelligibility with other languages in the group In this way virtually every known language receives coverage For ease of reference and to aid research the articles are alphabetically arranged each signed by the contributor supported by up to date bibliographies line drawings maps tables and diagrams and readily accessible via a system of cross references and a detailed index and synoptic outline Authoritative comprehensive and innovative the 2nd edition of the International Encyclopedia of Linguistics will be an indispensable addition to personal public academic and research libraries and will introduce a new generation of readers to the complexities and concerns of this field of study Type-Logical Syntax Yusuke Kubota, Robert D. Levine, 2020-09-15 A novel logic based framework for representing the syntax semantics interface of natural language applicable to a range of phenomena In this book Yusuke Kubota and Robert Levine propose a type logical version of categorial grammar as a viable alternative model of natural language syntax and semantics They show that this novel logic based framework is applicable to a range of phenomena especially in the domains of coordination and ellipsis that have proven problematic for traditional approaches The type logical syntax the authors propose takes derivations of natural language sentences to be proofs in a particular kind of logic governing the way words and phrases are combined This logic builds on and unifies two deductive

systems from the tradition of categorial grammar the resulting system Hybrid Type Logical Categorial Grammar Hybrid TLCG enables comprehensive approaches to coordination gapping dependent cluster coordination and right node raising and ellipsis VP ellipsis pseudogapping and extraction ellipsis interaction It captures a number of intricate patterns of interaction between scopal operators and seemingly incomplete constituents that are frequently found in these two empirical domains Kubota and Levine show that the hybrid calculus underlying their framework incorporates key analytic ideas from competing approaches in the generative syntax literature to offer a unified and systematic treatment of data that have posed considerable difficulties for previous accounts Their account demonstrates that logic is a powerful tool for analyzing the deeper principles underlying the syntax and semantics of natural language The Oxford Handbook of Linguistic Interfaces Gillian Ramchand, Charles Reiss, 2007-02-22 This state of the art guide to some of the most exciting work in current linguistics explores how the core components of the language faculty interact It examines how these interactions are reflected in linguistic and cognitive theory considers what they reveal about the operations of language within the mind and looks at their reflections in expression and communication Leading international scholars present cutting edge accounts of developments in the interfaces between phonetics phonology morphology syntax semantics and pragmatics. They bring to bear a rich variety of methods and theoretical perspectives focus on a broad array of issues and problems and illustrate their arguments from a wide range of the world's languages After the editors introduction to its structure scope and content the book is divided into four parts The first Sound is concerned with the interfaces between phonetics and phonology phonology and morphology and phonology and syntax Part II Structure considers the interactions of syntax with morphology semantics and the lexicon and explores the status of the word and its representional status in the mind Part III Meaning revisits the syntax semantics interface from the perspective of compositionality and looks at issues concerned with intonation discourse and context The authors in the final part of the book General Architectural Concerns examine work on Universal Grammar the overall model of language and linguistic and associated theories of language and cognition All scholars and advanced students of language will value this book whether they are in linguistics cognitive science philosophy artificial intelligence computational science or informatics Type-Logical Semantics Bob Carpenter, 1998-07-24 Based on an introductory course on natural language semantics this book provides an introduction to type logical grammar and the range of linguistic phenomena that can be handled in categorial grammar It also contains a great deal of original work on categorial grammar and its application to natural language semantics The author chose the type logical categorial grammar as his grammatical basis because of its broad syntactic coverage and its strong linkage of syntax and semantics Although its basic orientation is linguistic the book should also be of interest to logicians and computer scientists seeking connections between logical systems and natural language The book which stepwise develops successively more powerful logical and grammatical systems covers an unusually broad range of material Topics covered include higher order logic applicative categorial

grammar the Lambek calculus coordination and unbounded dependencies quantifiers and scope plurals pronouns and dependency modal logic intensionality and tense and aspect The book contains more mathematical development than is usually found in texts on natural language an appendix includes the basic mathematical concepts used throughout the book

**Discontinuous Constituency** Almerindo E. Ojeda, Geoffrey J. Huck, 2020-01-13 Preliminary Material Geoffrey J. Huck and Almerindo E Ojeda Introduction Geoffrey J Huck and Almerindo E Ojeda Degree Complements Mark R Baltin Phrase Structure Grammatical Relations and Discontinuous Constituents Pauline Jacobson Redoing Reduplication A Preliminary Sketch Yoshihisa Kitagawa Analyzing Extraposition in a Tree Adjoining Grammar Anthony S Krogh and Aravind K Joshi Some Extensions of the Autolexical Approach to Structural Mismatches Steven G Lapointe Some Additional Evidence for Discontinuity James D McCawley Boolean Properties in the Analysis of Gapping Richard T Oehrle Discontinuous Constituents in a Free Word Order Language William O Grady Discontinuity Multidominance and Unbounded Dependency in Generalized Phrase Structure Grammar Some Preliminaries Almerindo E Ojeda Discontinuity in Autolexical and Autosemantic Syntax Jerrold M Sadock Grammatical Hierarchy and Linear Precedence Ivan A Sag Constituency and Luise o Argument Structure Susan Steele Configurational Variation in English A Study of Extraposition and Related Matters Susan U Stucky Linear Precedence in Discontinuous Constituents Complex Fronting in German Hans Uszkoreit Extraposition from NP as Anaphora Kent Wittenburg Index Geoffrey J Huck and Almerindo E Ojeda Syntax and Semantics Geoffrey J Huck and Almerindo E Syntax - Theory and Analysis. Volume 2 Tibor Kiss, Artemis Alexiadou, 2015-02-24 This Handbook represents the Ojeda development of research and the current level of knowledge in the fields of syntactic theory and syntax analysis Syntax can look back to a long tradition Especially in the last 50 years however the interaction between syntactic theory and syntactic analysis has led to a rapid increase in analyses and theoretical suggestions This second edition of the Handbook on Syntax adopts a unifying perspective and therefore does not place the division of syntactic theory into several schools to the fore but the increase in knowledge resulting from the fruitful argumentations between syntactic analysis and syntactic theory It uses selected phenomena of individual languages and their cross linguistic realizations to explain what syntactic analyses can do and at the same time to show in what respects syntactic theories differ from each other It investigates how syntax is related to neighbouring disciplines and investigate the role of the interfaces especially the relationship between syntax and phonology morphology compositional semantics pragmatics and the lexicon The phenomena chosen bring together renowned experts in syntax and represent the consensus reached as to what has to be considered as an important as well as illustrative syntactic phenomenon The phenomena discuss do not only serve to show syntactic analyses but also to compare theoretical approaches with each other Proceedings of the 9th West Coast Conference on Formal Linguistics Stanford Linguistics Association, 1991 Most of the papers presented at the 1990 West Coast Conference on Formal Linguistics are included in this volume This annual publication not readily available in the past makes the latest research in formal

linguistics available to a wider audience Aaron Halpern is a graduate student in linguistics at Stanford University The MIT Encyclopedia of the Cognitive Sciences (MITECS) Robert A. Wilson, Frank C. Keil, 2001-09-04 Since the 1970s the cognitive sciences have offered multidisciplinary ways of understanding the mind and cognition The MIT Encyclopedia of the Cognitive Sciences MITECS is a landmark comprehensive reference work that represents the methodological and theoretical diversity of this changing field At the core of the encyclopedia are 471 concise entries from Acquisition and Adaptationism to Wundt and X bar Theory Each article written by a leading researcher in the field provides an accessible introduction to an important concept in the cognitive sciences as well as references or further readings Six extended essays which collectively serve as a roadmap to the articles provide overviews of each of six major areas of cognitive science Philosophy Psychology Neurosciences Computational Intelligence Linguistics and Language and Culture Cognition and Evolution For both students and researchers MITECS will be an indispensable guide to the current state of the cognitive sciences In the World of Signs, 2022-04-25 The book covers almost the whole range of semiotics the conceptions of meaning the appearance of meaning units in semiosis the dichotomy analyticity syntheticity the formal condition of good translation the metaphorical change in fine arts the figurativeness in modern literary theories the metaphor in computer translation the conditionals with egocentric predicates the evolution of the notion of cause the temporal relation in conditionals the structure of passive voice the semantics of to think the reasoning and rationality the non formalized reasoning the operation of acceptance the principle of non contradiction the relation semiotics logic philosophy the interdisciplinarity and exactness the notion of imprecision the interpretation of some semiotic notions i a semantic field of terms in terms of mathematics the description of categorial grammars in terms of model theory the human knowledge as moral problem the conceptualization of the development of knowledge by means of the notion of meme the cultural relations between some European countries the typology of scientists the semiotic studies of some Spanish Irish Czech Polish and Norwegian works of literature the semiotic aspects of music television and the whole sphere of artifacts the history of semiotics Plato Gonsung Long Descartes Fu Yen Peirce Brwal Lotman Langer Logic and Grammar Sylvain Pogodalla, Myriam Quatrini, Christian Retoré, 2011-06-14 This book contains selected papers from the Colloquium in Honor of Alain Lecomte held in Pauillac France in November 2007 The event was part of the ANR project Pr lude Towards Theoretical Pragmatics Based on Ludics and Continuation Theory the proceedings of which were published in another FoLLI LNAI volume LNAI 6505 edited by Alain Lecomte and Samuel Tron on The selected papers of this Festschrift volume focus on the scientific areas in which Alain Lecomte has worked and to which he has contributed formal linguistics computational linguistics logic and cognition **Functor Analysis of Natural** Language John Lehrberger, 2019-03-18 No detailed description available for Functor Analysis of Natural Language The Syntactic Process Mark Steedman, 2001-07-27 This book covers topics in formal linguistics intonational phonology computational linguistics and experimental psycholinguistics presenting them as an integrated theory of the language faculty In this book Mark Steedman argues that the surface syntax of natural languages maps spoken and written forms directly to a compositional semantic representation that includes predicate argument structure quantification and information structure without constructing any intervening structural representation His purpose is to construct a principled theory of natural grammar that is directly compatible with both explanatory linguistic accounts of a number of problematic syntactic phenomena and a straightforward computational account of the way sentences are mapped onto representations of meaning The radical nature of Steedman's proposal stems from his claim that much of the apparent complexity of syntax prosody and processing follows from the lexical specification of the grammar and from the involvement of a small number of universal rule types for combining predicates and arguments These syntactic operations are related to the combinators of Combinatory Logic engendering a much freer definition of derivational constituency than is traditionally assumed This property allows Combinatory Categorial Grammar to capture elegantly the structure and interpretation of coordination and intonation contour in English as well as some well known interactions between word order coordination and relativization across a number of other languages It also allows more direct compatibility with incremental semantic interpretation during parsing The book covers topics in formal linguistics intonational phonology computational linguistics and experimental psycholinguistics presenting them as an integrated theory of the language faculty in a form accessible to readers from any of Direct Compositionality Chris Barker, Pauline Jacobson, 2007-03-01 This book examines the hypothesis of those fields direct compositionality which requires that semantic interpretation proceed in tandem with syntactic combination Although associated with the dominant view in formal semantics of the 1970s and 1980s the feasibility of direct compositionality remained unsettled and more recently the discussion as to whether or not this view can be maintained has receded The syntax semantics interaction is now often seen as a process in which the syntax builds representations which at the abstract level of logical form are sent for interpretation to the semantics component of the language faculty In the first extended discussion of the hypothesis of direct compositionality for twenty years this book considers whether its abandonment might have been premature and whether in fact direct compositionality is not after all a simpler and more effective conception of the grammar than the conventional account of the syntax semantics interface in generative grammar It contains contributions from both sides of the debate locates the debate in the setting of a variety of formal theories and draws on examples from a range of languages and a range of empirical phenomena Non-Transformational Syntax Robert Borsley, Kersti Börjars, 2011-09-19 This authoritative introduction explores the four main non transformational syntactic frameworks Head driven Phrase Structure Grammar Lexical Functional Grammar Categorial Grammar and Simpler Syntax It also considers a range of issues that arise in connection with these approaches including questions about processing and acquisition An authoritative introduction to the main alternatives to transformational grammar Includes introductions to three long established non transformational syntactic frameworks Head driven Phrase Structure Grammar Lexical Functional Grammar and Categorial Grammar along with the recently developed Simpler Syntax Brings together linguists who have developed and shaped these theories to illustrate the central properties of these frameworks and how they handle some of the main phenomena of syntax Discusses a range of issues that arise in connection with non transformational approaches including processing and acquisition

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