

# Inheritance and Constraint-Based Grammar Formalisms

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Project POLYGLOSS

*We describe an approach to unification grammars that integrates two paradigms: the object-oriented approach, which offers multiple inheritance, complex objects with role-value restrictions and role-values equality, querying as subsumption; the relational programming approach, which offers declarativity, logical variables, nondeterminism with backtracking, and subsumption queries. This approach is embedded in a constraint-based object-oriented formalism. The interpreter of the formalism is described as a term rewriting system based on unification of typed feature structures.*

*The grammar writer organizes unification grammars as inheritance networks of typed feature structures. Complex linguistic structures are described by means of recursive type constraints. We illustrate the use of inheritance networks with two examples: an HPSG example where implications (as used for “principles”) is modeled using inheritance and an example of bilingual transfer where the minimal amount of information needed for the translation is specified at different levels of generalization.*

## 1. Introduction

Ideally, a linguistic formalism combining the best of the object-oriented approach and the unification-based approach would be realized in a constraint based architecture for an object-oriented language based on inheritance, feature structures, and unification.

The Typed Feature Structure language (TFS) is an attempt to provide a synthesis of several key concepts stemming from unification-based grammar formalisms (feature structure: Kay 1984) knowledge representation languages (inheritance), and logic programming (narrowing). The formalism supports an object-oriented style based on abstraction and generalization through inheritance; it is a fully declarative formalism based on unification of typed feature structures. It is flexible and has enough expres-

# Constraint Based Grammar Formalisms Pars

**Hubert Comon, Claude Marche, Ralf  
Treinen**



## **Constraint Based Grammar Formalisms Pars:**

**Constraint-based Grammar Formalisms** Stuart M. Shieber, 1992 Constraint Based Grammar Formalisms provides the first rigorous mathematical and computational basis for this important area Topics in Constraint-Based Grammar of Japanese T. Gunji, K. Hasida, 2012-12-06 This collection of papers reports our attempt to sketch how Japanese grammar can be represented in a constraint based formalism Our first attempt of this nature appeared a decade ago as Japanese Phrase Structure Grammar Gunji 1987 and in several papers following the publication of the book This book has evolved from a technical memo that was a progress report on the Japanese phrase structure grammar JPSG project which was conducted as an activity of the JPSG Working Group at ICOT Institute for New Generation Computing Technology from 1984 to 1992 JPSG implements ideas from recent developments in phrase structure grammar formalism such as head driven phrase structure grammar HPSG see Pollard Sag 1987 1994 as applied to the Japanese language The main goal of this project was to state various grammatical regularities exhibited in natural language in general and in Japanese in particular as a set of local constraints The book is organized in two parts Part I gives an overview of developments in our framework after the publication of Gunji 1987 introducing our fundamental assumptions as well as discussing various aspects of Japanese in the constraint based formalism and summarizing discussions of the JPSG Working Group during the above mentioned period Naturally in the period after the publication of the above book our discussion was centered on topics not covered in the book

*Grammatical theory : From transformational grammar to constraint-based approaches* Stefan Müller, 2023-01-04 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorical Grammar Head Driven Phrase Structure Grammar Construction Grammar Tree Adjoining Grammar The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts the active passive alternation local reorderings verb placement and fronting of constituents over long distances The analyses are explained with German as the object language The second part of the book compares these approaches with respect to their predictions regarding language acquisition and psycholinguistic plausibility The nativism hypothesis which assumes that humans possess genetically determined innate language specific knowledge is critically examined and alternative models of language acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being more appropriate the question whether constructions should be treated on the phrasal or the lexical level and the question whether abstract non visible entities should play a role in syntactic analyses It is shown that the analyses suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured

**Grammatical theory: From transformational grammar to constraint-based approaches (Fifth revised edition)**

Stefan Müller,2023-01-23 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorical Grammar Head Driven Phrase Structure Grammar Construction Grammar Tree Adjoining Grammar The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts the active passive alternation local reorderings verb placement and fronting of constituents over long distances The analyses are explained with German as the object language The second part of the book compares these approaches with respect to their predictions regarding language acquisition and psycholinguistic plausibility The nativism hypothesis which assumes that humans possess genetically determined innate language specific knowledge is critically examined and alternative models of language acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being more appropriate the question whether constructions should be treated on the phrasal or the lexical level and the question whether abstract non visible entities should play a role in syntactic analyses It is shown that the analyses suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured

Lexicon Development for Speech and Language Processing Frank Van Eynde,2014-11-14 This work offers a survey of methods and techniques for structuring acquiring and maintaining lexical resources for speech and language processing The first chapter provides a broad survey of the field of computational lexicography introducing most of the issues terms and topics which are addressed in more detail in the rest of the book The next two chapters focus on the structure and the content of man made lexicons concentrating respectively on morpho syntactic and morpho phonological information Both chapters adopt a declarative constraint based methodology and pay ample attention to the various ways in which lexical generalizations can be formalized and exploited to enhance the consistency and to reduce the redundancy of lexicons A complementary perspective is offered in the next two chapters which present techniques for automatically deriving lexical resources from text corpora These chapters adopt an inductive data oriented methodology and focus also on methods for tokenization lemmatization and shallow parsing The next three chapters focus on speech synthesis and speech recognition

**The Handbook of Computational Linguistics and Natural Language Processing** Alexander Clark,Chris Fox,Shalom Lappin,2012-10-04 This comprehensive reference work provides an overview of the concepts methodologies and applications in computational linguistics and natural language processing NLP Features contributions by the top researchers in the field reflecting the work that is driving the discipline forward Includes an introduction to the major theoretical issues in these fields as well as the central engineering applications that the work has produced Presents the major developments in an accessible way explaining the close connection between scientific understanding of the computational properties of natural language and the creation of effective language technologies Serves as an invaluable state of the art reference source for

computational linguists and software engineers developing NLP applications in industrial research and development labs of software companies

Design Patterns in Fluid Construction Grammar Luc Steels, 2011 Construction Grammar is enthusiastically embraced by a growing group of linguists who find it a natural way to formulate their analyses But so far there is no widespread formalization of construction grammar with a solid computational implementation Fluid Construction Grammar attempts to fill this gap It is a fully operational computational framework capturing many key concepts in construction grammar The present book is the first extensive publication describing this framework In addition to general introductions it gives a number of concrete examples through a series of linguistically challenging case studies including phrase structure case grammar and modality The book is suited both for linguists who want to know what Fluid Construction Grammar looks like and for computational linguists who may want to use this computational framework for their own experiments or applications

**Verb Constructions in German and Dutch** Pieter A. M. Seuren, Gerard Kempen, 2003 German and Dutch verb constructions show a rich array of syntactic phenomena that have so far been underexposed in the literature despite the fact that they have proved to be a source of substantial problems in theoretical grammar The cross linguistic study of verb constructions and complementation has been dominated by views deriving from English or for that matter Latin The German and Dutch complementation systems however feature several important properties that are missing from English but occur in many other languages Well known but only partially understood examples are clause final verb clusters and the so called Third Construction In the present book these and related phenomena are addressed by leading representatives of various schools of linguistic thought in particular Head driven Phrase Structure Grammar HPSG Generative Grammar Lexical Functional Grammar LFG Tree Adjoining Grammar TAG Performance Grammar and Semantic Syntax By bringing together the diverse theoretical analyses into one volume the editors hope to stimulate comparative evaluations of the formalisms

*New Trends of Research in Ontologies and Lexical Resources* Alessandro Oltramari, Piek Vossen, Lu Qin, Eduard Hovy, 2013-02-01 In order to exchange knowledge humans need to share a common lexicon of words as well as to access the world models underlying that lexicon What is a natural process for a human turns out to be an extremely hard task for a machine computers can't represent knowledge as effectively as humans do which hampers for example meaning disambiguation and communication Applied ontologies and NLP have been developed to face these challenges Integrating ontologies with possibly multilingual lexical resources is an essential requirement to make human language understandable by machines and also to enable interoperability and computability across information systems and ultimately in the Web This book explores recent advances in the integration of ontologies and lexical resources including questions such as building the required infrastructure e.g. the Semantic Web and different formalisms methods and platforms for eliciting analyzing and encoding knowledge contents e.g. multimedia emotions events etc The contributors look towards next generation technologies shifting the focus from the state of the art to the future of Ontologies and Lexical Resources

This work will be of interest to research scientists graduate students and professionals in the fields of knowledge engineering computational linguistics and semantic technologies

*Constraints in Computational Logics. Theory and Applications*  
Hubert Comon, ESPRIT CCL Working Group, 2001-04-18 Constraints and constraint solving an introduction Jean Pierre Jouannaud Constraint solving on terms Hubert Comon Combining constraint solving Franz Baader Constraints and theorem proving Harald Ganzinger Functional and constraint logic programming Mario Rodr guez Artalejo Building industrial applications with constraint programming Helmut Simonis

*Constraints, Language and Computation* M. A. Rosner, C. J. Rupp, Torrence Johnson, 2014-06-28 Constraint based linguistics is intersected by three fields logic linguistics and computer sciences The central theme that ties these different disciplines together is the notion of a linguistic formalism or metalanguage This metalanguage has good mathematical properties is designed to express descriptions of language and has a semantics that can be implemented on a computer Constraints Language and Computation discusses the theory and practice of constraint based computational linguistics The book captures both the maturity of the field and some of its more interesting future prospects during a particularly important moment of development in this field

**Functionalism and Formalism in Linguistics: General papers** Mike Darnell, 1999 The 23rd UWM Linguistics Symposium 1996 brought together linguists of opposing theoretical approaches functionalists and formalists in order to determine to what extent these approaches really differ from each other and to what extent the approaches complement each other The two volumes of Functionalism and Formalism in Linguistics contain a careful selection of the papers originally presented at the symposium Volume I includes papers discussing the two basic approaches to linguistics with contributions by Werner Abraham Stephen R Anderson Joan L Bybee William Croft Alice Davidson Mark Durie Ken Hale Michael Hammond Bruce P Hayes Nina Hyams Howard Lasnik Brian MacWhinney Geoffrey S Nathan Daniell Nettle Frederick J Newmeyer Edith A Moravcsik Doris Payne Janet Pierrehumbert Kathleen M Wheatley Volume II consists of case studies which draw upon the strengths of both approaches and thus help to bridge the gap between the two camps with contributions by Mira Ariel Melissa Axelrod Robbin Clamons Bernard Comrie Kees Hengeveld Erika Hoff Ginsberg James Hurford Lizanne Kaiser Nicholas Kibre Simon Kirby Feng hsi Liu Andr Meinunger Viola Miglio Ann Mulkern Waturu Nakamura Maria Polinsky Elizabeth Purnell Gerald Sanders Nancy Stenson Maggie Tallerman Ronnie Wilbur

*Grammatical theory* Stefan Müller, 2018 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorical Grammar Head Driven Phrase Structure Grammar Construction Grammar Tree Adjoining Grammar The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts the active passive alternation local reorderings verb placement and fronting of constituents over long distances The analyses are explained with German as the object language The second part of the book compares these approaches with respect to their predictions regarding language acquisition and

psycholinguistic plausibility The nativism hypothesis which assumes that humans possess genetically determined innate language specific knowledge is critically examined and alternative models of language acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being more appropriate the question whether constructions should be treated on the phrasal or the lexical level and the question whether abstract non visible entities should play a role in syntactic analyses It is shown that the analyses suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured With this critical yet fair reflection on various grammatical theories Müller fills what has been a major gap in the literature Karen Lehmann *Zeitschrift für Rezensionen zur germanistischen Sprachwissenschaft* 2012 Stefan Müller's recent introductory textbook *Grammatiktheorie* is an astonishingly comprehensive and insightful survey of the present state of syntactic theory for beginning students Wolfgang Sternefeld und Frank Richter *Zeitschrift für Sprachwissenschaft* 2012 This is the kind of work that has been sought after for a while The impartial and objective discussion offered by the author is particularly refreshing Werner Abraham *Germanistik* 2012

Predicative Forms in Natural Language and in Lexical Knowledge Bases P. Saint-Dizier, 2013-03-09 This volume is a selection of papers presented at a workshop entitled *Predicative Forms in Natural Language and in Lexical Knowledge Bases* organized in Toulouse in August 1996 A predicate is a named relation that exists among one or more arguments In natural language predicates are realized as verbs prepositions nouns and adjectives to cite the most frequent ones Research on the identification organization and semantic representation of predicates in artificial intelligence and in language processing is a very active research field The emergence of new paradigms in theoretical language processing the definition of new problems and the important evolution of applications have in fact stimulated much interest and debate on the role and nature of predicates in natural language From a broad theoretical perspective the notion of predicate is central to research on the syntax semantics interface the generative lexicon the definition of ontology based semantic representations and the formation of verb semantic classes From a computational perspective the notion of predicate plays a central role in a number of applications including the design of lexical knowledge bases the development of automatic indexing systems for the extraction of structured semantic representations and the creation of interlingual forms in machine translation

**Constraints in Computational Logics: Theory and Applications** Hubert Comon, Claude Marche, Ralf Treinen, 2003-08-06 Constraints provide a declarative way of representing infinite sets of data They are well suited for combining different logical or programming paradigms as has been known for constraint logic programming since the 1980s and more recently for functional programming The use of constraints in automated deduction is more recent and has proved to be very successful moving the control from the meta level to the constraints which are now first class objects This monograph like book presents six thoroughly reviewed and revised lectures given by leading researchers at the summer

school organized by the ESPRIT CCL Working Group in Gif sur Yvette France in September 1999 The book offers coherently written chapters on constraints and constraint solving constraint solving on terms combining constraint solving constraints and theorem proving functional and constraint logic programming and building industrial applications International Encyclopedia of Linguistics William J. Frawley, 2003-05-01 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

*Head-Driven Phrase Structure Grammar* Stefan Müller, Anne Abeillé, Robert D. Borsley, Jean-Pierre Koenig, 2024-11-07 Head Driven Phrase Structure Grammar HPSG is a constraint based or declarative approach to linguistic knowledge which analyses all descriptive levels phonology morphology syntax semantics pragmatics with feature value pairs structure sharing and relational constraints In syntax it assumes that expressions have a single relatively simple constituent structure This volume provides a state of the art introduction to the framework Various chapters discuss basic assumptions and formal foundations describe the evolution of the framework and go into the details of the main syntactic phenomena Further



chapters are devoted to non syntactic levels of description The book also considers related fields and research areas gesture  
 sign languages computational linguistics and includes chapters comparing HPSG with other frameworks Lexical Functional  
 Grammar Categorical Grammar Construction Grammar Dependency Grammar and Minimalism      **Constraint Grammar**  
 Fred Karlsson,Atro Voutilainen,Juha Heikkilae,Arto Anttila,2011-08-30 No detailed description available for Constraint  
 Grammar      *Formal Grammar* Philippe de Groote,Mark-Jan Nederhof,2012-07-16 This book constitutes the refereed  
 proceedings of the 15th and 16th International Conference on Formal Grammar 2010 and 2011 collocated with the European  
 Summer School in Logic Language and Information in July 2010 2011 The 19 revised full papers were carefully reviewed and  
 selected from a total of 50 submissions The papers papers deal with the following topics formal and computational phonology  
 morphology syntax semantics and pragmatics model theoretic and proof theoretic methods in linguistics logical aspects of  
 linguistic structure constraint based and resource sensitive approaches to grammar learnability of formal grammar  
 integration of stochastic and symbolic models of grammar foundational methodological and architectural issues in grammar  
 mathematical foundations of statistical approaches to linguistic analysis      **Parsing Schemata** Klaas Sikkel,2012-12-06  
 Parsing the syntactic analysis of language has been studied extensively in computer science and computational linguistics  
 Computer programs and natural languages share an underlying theory of formal languages and require efficient parsing  
 algorithms This introduction reviews the theory of parsing from a novel perspective It provides a formalism to capture the  
 essential traits of a parser that abstracts from the fine detail and allows a uniform description and comparison of a variety of  
 parsers including Earley Tomita LR Left Corner and Head Corner parsers The emphasis is on context free phrase structure  
 grammar and how these parsers can be extended to unification formalisms The book combines mathematical rigor with high  
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