

# Lecture Notes

## PROLOG AND NATURAL-LANGUAGE ANALYSIS

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**CSLI**

CENTER FOR THE STUDY  
OF LANGUAGE  
AND INFORMATION

# Prolog And Natural Language Analysis

**Barbara J. Grosz, Karen Sparck  
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## **Prolog And Natural Language Analysis:**

*Prolog and Natural-language Analysis* Fernando C. N. Pereira, Stuart M. Shieber, 2002      Prolog and Natural-language Analysis Fernando C. N. Pereira, Stuart M. Shieber, 1987 Logic programming an important new method of compute programming resulting from recent research in artificial intelligence and computer science has proved to be especially appropriate for solving problems in natrual language processing Prolog and Natural Language Analysis provides a concise and practical introduction to logic programming and the logic programming language Prolog both as vehicles for understanding elementary computational linguistics and as tools for implementing the basic components of natural language processing systems Throughout the specific concepts and techniques are given rigorous theoretical justification and are demonstrated with working programs that show how Prolog can be used to solve actual problems in syntax parsing and semantic inteprétation These examples culminate in a simple working natural language question answering system written in Prolog Extensive bibliographic notes point the reader to related research and further reading Fernando C N Pereira is a senior computer scientist at SRI International s Artificial Intelligence Center and a consulting professor at Stanford University His research on Prolog and natural language processing underlies much recent work in logic grammars Stuart Shieber is a researcher at the Center for the Study of Language and Information and a computer scientist at SRI International s Artificial Intelligence Center His research on unification based grammar formalisms bridges logic programming and linguistic theory      An Introduction to Natural Language Processing Through Prolog Clive Matthews, 2016-07-01 Research into Natural Language Processing the use of computers to process language has developed over the last couple of decades into one of the most vigorous and interesting areas of current work on language and communication This book introduces the subject through the discussion and development of various computer programs which illustrate some of the basic concepts and techniques in the field The programming language used is Prolog which is especially well suited for Natural Language Processing and those with little or no background in computing Following the general introduction the first section of the book presents Prolog and the following chapters illustrate how various Natural Language Processing programs may be written using this programming language Since it is assumed that the reader has no previous experience in programming great care is taken to provide a simple yet comprehensive introduction to Prolog Due to the user friendly nature of Prolog simple yet effective programs may be written from an early stage The reader is gradually introduced to various techniques for syntactic processing ranging from Finite State Network recognisors to Chart parsers An integral element of the book is the comprehensive set of exercises included in each chapter as a means of cementing the reader s understanding of each topic Suggested answers are also provided An Introduction to Natural Language Processing Through Prolog is an excellent introduction to the subject for students of linguistics and computer science and will be especially useful for those with no background in the subject      **Prolog for Natural Language Processing** Annie

Gal,1991-07-18 Covering a wide range of important topics in Natural Language Processing NLP the text is based on logic Offers state of the art resumes on each subject introduced a selection of working programs bibliographic references and extensive appendices which give full listings of all the programs presented The programming language used in the examples provided is Prolog which is available on an accompanying disk      **Natural Language Computing** Ray C. Dougherty,1994 This book s main goal is to show readers how to use the linguistic theory of Noam Chomsky called Universal Grammar to represent English French and German on a computer using the Prolog computer language In so doing it presents a follow the dots approach to natural language processing linguistic theory artificial intelligence and expert systems The basic idea is to introduce meaningful answers to significant problems involved in representing human language data on a computer The book offers a hands on approach to anyone who wishes to gain a perspective on natural language processing the computational analysis of human language data All of the examples are illustrated using computer programs The optimal way for a person to get started is to run these existing programs to gain an understanding of how they work After gaining familiarity readers can begin to modify the programs and eventually write their own The first six chapters take a reader who has never heard of non procedural backtracking declarative languages like Prolog and using 29 full page diagrams and 75 programs detail how to represent a lexicon of English on a computer A bibliography is programmed into a Prolog database to show how linguists can manipulate the symbols used in formal representations including braces and brackets The next three chapters use 74 full page diagrams and 38 programs to show how data structures subcategorization selection phrase marker and processes top down bottom up parsing recursion crucial in Chomsky s theory can be explicitly formulated into a constraint based grammar and implemented in Prolog The Prolog interpreters provided with the book are basically identical to the high priced Prologs but they lack the speed and memory capacities They are ideal since anything learned about these Prologs carries over unmodified to C Prolog and Quintas on the mainframes Anyone who studies the prolog implementations of the lexicons and syntactic principles of combination should be able to use Prolog to represent their own linguistic data on the most complex Prolog computer available whether their data derive from syntactic theory semantics sociolinguistics bilingualism language acquisition language learning or some related area in which the grammatical patterns of words and phrases are more crucial than concepts of quantity The printed examples illustrate C Prolog on an Ultrix Vax a standard university configuration The disk included with the book contains shareware version of Prolog 2 IBM PC and MacProlog Macintosh plus versions of the programs that run on C Prolog Quintas Prolog 2 and MacProlog Appendix II contains information about how to use the Internet Gopher CompuServe and the free More BBS to download the latest copies of Prolog programs lexicons and parsers All figures 100 in the book are available scaled to make full size transparencies for class lectures Valuable special features of this volume include more than 100 full page diagrams illustrating the basic concepts of natural language processing Prolog and Chomsky s linguistic theories more than 100 programs illustrated in at least one script file showing how to encode the

representations and derivations of generative grammar into Prolog more than 100 session files guiding readers through their own hands on sessions with the programs illustrating Chomsky's theory

- 1 a 3.5 disk IBM Format containing 1 all programs in versions to run in C Prolog or Quintus Prolog on an Ultrix Vax and on an IBM PC and a Macintosh
- 2 a shareware version of Prolog 2 for IBM PC clones which runs all programs in the book
- 3 a shareware version of MacProlog for Macintosh which runs all programs in the book

instructions on using Internet CompuServe and the free More BBS to download the latest copies of Prolog programs lexicons and parsers and numerous references enabling interested students to pursue questions at greater depth by consulting the items in the extensive bibliography

*Natural Language Processing in Prolog* Gerald Gazdar, Christopher S. Mellish, 1989 Explains how computers can be programmed to recognize the complex ambiguities of human language Addresses current techniques in syntax semantics and pragmatics program listings showing applications in Prolog and question answering and inference Targeted at professionals in the artificial intelligence community

**Natural Language Processing for Prolog Programmers** Michael A. Covington, 1994 An examination of natural language processing in Prolog for those who know Prolog but not linguistics this book enables students to move quickly into writing and working in useful software It features many working computer programs that implement subsystems of a natural language processor These programs are designed to be understood in isolation from one another and are compatible with an Edinburgh compatible Prolog implementation such as Quintus Prolog, Arity and ALS

**GWAI-89 13th German Workshop on Artificial Intelligence** Dieter Metzger, 2013-03-12 Die 13. Jahrestagung für Künstliche Intelligenz GWAI 89 ist auch 1989 wieder ein Forum auf dem ein beachtliches Spektrum der KI-Forschung in der Bundesrepublik präsentiert wird Es reicht von Vorträgen über aktuelle Forschungsarbeiten bis zu speziellen Seminaren und dort von Grundlagenveranstaltungen Formale und Kognitive Grundlagen von Wissensrepräsentationen Einführung in Maschinelles Lernen und in spezielle hierarchisch problemorientierte Sprachen für Wissensbasierte Systeme bis zur Sektion Expertensystemlabor in der das Ziel verfolgt wird einen Rahmen zu definieren für kontinuierliche Kooperation und Erfahrungsaustausch zwischen Grundlagen und Anwendungsforschung und Produktentwicklung Die thematischen Schwerpunkte der Beiträge liegen in den Gebieten klassische und nicht klassische Deduktive Systeme Expertensysteme und Natürlichsprachliche Systeme Dazu kommen andere Teilgebiete der KI wie Bildverarbeitung Kognitive und Tutorielle Systeme sowie Neuronale Netze

*Language Processing and Language Acquisition* Lyn Frazier, J. de Villiers, 2012-12-06 Studies of language acquisition have largely ignored processing principles and mechanisms Not surprisingly questions concerning the analysis of an informative linguistic input the potential evidence for grammatical parameter setting have also been ignored Especially in linguistic approaches to language acquisition the role of language processing has not been prominent With few exceptions e.g. Goodluck and Tavakolian 1982 Pinker 1984 discussions of language performance tend to arise only when experimental debris the artifact of some experiment needs to be cleared away Consequently language processing has been viewed as a collection of rather

uninteresting performance factors obscuring the true object of interest namely grammar acquisition On those occasions when parsing strategies have been incorporated into accounts of language development they have often been discussed as vague preferences not open to rigorous analysis In principle however theories of language comprehension can and should be subjected to the same criteria of explicitness and explanatoriness as other theories e g theories of grammar Thus their peripheral role in accounts of language development may reflect accidental factors rather than any inherent fuzziness or irrelevance to the language acquisition problem It seems probable that an explicit model of the way s processing routines are applied in acquisition would help solve some central problems of grammar acquisition since these routines regulate the application of grammatical knowledge to novel inputs

**Neue Fragen der Linguistik** Elisabeth Feldbusch,Reiner Pogarell,Cornelia Weiß,2011-05-03 Die Buchreihe Linguistische Arbeiten hat mit über 500 Bänden zur linguistischen Theoriebildung der letzten Jahrzehnte in Deutschland und international wesentlich beigetragen Die Reihe wird auch weiterhin neue Impulse für die Forschung setzen und die zentrale Einsicht der Sprachwissenschaft präsentieren dass Fortschritt in der Erforschung der menschlichen Sprachen nur durch die enge Verbindung von empirischen und theoretischen Analysen sowohl diachron wie synchron möglich ist Daher laden wir hochwertige linguistische Arbeiten aus allen zentralen Teilgebieten der allgemeinen und einzelsprachlichen Linguistik ein die aktuelle Fragestellungen bearbeiten neue Daten diskutieren und die Theorieentwicklung vorantreiben

Language Processing with Perl and Prolog Pierre M. Nugues,2014-08-06 The areas of natural language processing and computational linguistics have continued to grow in recent years driven by the demand to automatically process text and spoken data With the processing power and techniques now available research is scaling up from lab prototypes to real world proven applications This book teaches the principles of natural language processing first covering practical linguistics issues such as encoding and annotation schemes defining words tokens and parts of speech and morphology as well as key concepts in machine learning such as entropy regression and classification which are used throughout the book It then details the language processing functions involved including part of speech tagging using rules and stochastic techniques using Prolog to write phrase structure grammars syntactic formalisms and parsing techniques semantics predicate logic and lexical semantics and analysis of discourse and applications in dialogue systems A key feature of the book is the author's hands on approach throughout with sample code in Prolog and Perl extensive exercises and a detailed introduction to Prolog The reader is supported with a companion website that contains teaching slides programs and additional material The second edition is a complete revision of the techniques exposed in the book to reflect advances in the field the author redesigned or updated all the chapters added two new ones and considerably expanded the sections on machine learning techniques

*Logic Grammars* Harvey Abramson,Veronica Dahl,2012-12-06 Logic grammars have found wide application both in natural language processing and in formal applications such as compiler writing This book introduces the main concepts involving natural and formal language processing in logic

programming and discusses typical problems which the reader may encounter proposing various methods for solving them. The basic material is presented in depth, advanced material involving new logic grammar formalisms and applications is presented with a view towards breadth. Major sections of the book include grammars for formal language and linguistic research, writing a simple logic grammar, different types of logic grammars, applications and logic grammars and concurrency. This book is intended for those interested in logic programming, artificial intelligence, computational linguistics, Fifth Generation computing, formal languages and compiling techniques. It may be read profitably by upper level undergraduates, post graduate students and active researchers on the above named areas. Some familiarity with Prolog and logic programming would be helpful; the authors however briefly describe Prolog and its relation to logic grammars. After reading Logic Grammars, the reader will be able to cope with the ever increasing literature of this new and exciting field. An Introduction to Language Processing with Perl and Prolog, Pierre M. Nugues, 2006-11-22. The areas of natural language processing and computational linguistics have continued to grow in recent years, driven by the demand to automatically process text and spoken data. With the processing power and techniques now available, research is scaling up from lab prototypes to real world proven applications. This book teaches the principles of natural language processing, first covering linguistics issues such as encoding, entropy and annotation schemes, defining words, tokens and parts of speech and morphology. It then details the language processing functions involved, including part of speech tagging using rules and stochastic techniques, using Prolog to write phrase structure grammars, parsing techniques and syntactic formalisms, semantics, predicate logic and lexical semantics and analysis of discourse and applications in dialog systems. The key feature of the book is the author's hands on approach throughout, with extensive exercises, sample code in Prolog and Perl and a detailed introduction to Prolog. The reader is supported with a companion website that contains teaching slides, programs and additional material. The book is suitable for researchers and students of natural language processing and computational linguistics.

**The Role of PROLOG (PROgramming and LOGic) in Natural Language Processing**, Michael L. McHale, ROME AIR DEVELOPMENT CENTER GRIFFISS AFB NY., 1988. The field of Artificial Intelligence strives to produce computer programs that exhibit intelligent behavior. One of the areas of interest is the processing of natural language. This report will discuss the role of the computer language PROLOG in Natural Language Processing. NLP, both from theoretic and pragmatic viewpoints. The reasons for using PROLOG for NLP are numerous. First, linguists can write natural language grammars almost directly as PROLOG programs; this allows fast prototyping of NLP systems and facilitates analysis of NLP theories. Second, semantic representations of natural language texts that use logic formalisms are readily produced in PROLOG because of PROLOG's logical foundations. Third, PROLOG's built in inferencing mechanisms are often sufficient for inferences on the logical forms produced by NLPs. Fourth, the logical declarative nature of PROLOG may make it the language of choice for parallel computing systems. Finally, the fact that PROLOG has a de facto standard, Edinburgh, makes the porting

of code from one computer system to another virtually trouble free Perhaps the strongest tie one could make between NLP and PROLOG was stated by John Stuart Mill in his inaugural Address at St Andrews The structure of every sentence is a lesson in logic

Expertensysteme '87 Konzepte und Werkzeuge Balzert, Heyer, Lutze, 2013-12-01 Die Fachtagung Expertensysteme 87 Konzepte und Werkzeuge ist die erste Tagung des German Chapter der ACM zu diesem Themengebiet und eine der ersten wissenschaftlichen Fachtagungen in Deutschland die sich speziell mit dieser Wissenschaftsdisziplin befaßt Im Jahre 1987 erstaunt dies um so mehr als seit dem Auftauchen der ersten Prototypen solcher Systeme Mitte der siebziger Jahre zunächst noch unter der Bezeichnung Produktionssysteme und regelbasierte Systeme bereits über eine Dekade vergangen ist Der Begriff Expertensysteme der sich zu Beginn der achtziger Jahre auf breiter Ebene durchgesetzt hat manifestiert aber auch einen Wandel der Wissenschaftsdisziplin Während regelbasierte Systeme als Studienobjekt in der künstlichen Intelligenz und Kognitionswissenschaft auf eine langjährige Tradition zurückblicken und letztlich von den durch E L Post in den vierziger Jahren entwickelten Ersetzungssystemen ihren Ausgang nahmen artikuliert der Begriff Expertensystem einen Anspruch der interdisziplinär in die Anwendungsgebiete solcher Systeme hineinreicht Dort im Anwendungsgebiet finden sich nämlich die menschlichen Experten an denen ein Expertensystem von seinem Namen her beansprucht gemessen zu werden Die Stellung solcher Expertensysteme in einer zukünftigen Wissensindustrie beleuchtet Dr Hein in seinem eingeladenen Vortrag Aus dieser Situation heraus muß es eines der wesentlichen Anliegen einer Fachtagung zum Thema Expertensysteme sein die Beurteilung des Anspruchs den ein Expertensystem für ein Anwendungsgebiet erhebt letztlich dem fachkundigen Besucher der Tagung bzw Leser dieses Bandes zu berlassen

**Natural Language Processing and Speech Technology** Dafydd Gibbon, 2016-09-26 Keine ausführliche Beschreibung für Natural Language Processing and Speech Technology verfügbar

**Readings in Natural Language Processing** Barbara J. Grosz, Karen Sparck Jones, Bonnie Lynn Webber, 1986 Proceedings of the Ninth International Joint Conference on Artificial Intelligence International Joint Conferences on Artificial Intelligence, 1985

**Advanced Logic Programming for Language Processing** Patrick Saint-Dizier, 1994 For twenty years unification and rewriting have played a major role in the modeling of linguistic phenomena More recently notions of types as in typed feature systems and constraints have emerged and are now extensively used in theoretical computational linguistics and the development of applications Recent developments in the area of logic programming such as new compilation techniques constraints object oriented programming and higher order programming coincide perfectly with the needs of computational linguistics Moreover logic programming offers a well defined theoretical framework whose computational properties are well identified and are efficient to operate Advanced Logic Programming for Language Processing covers the main advanced features of logic programming Each feature is introduced step by step and its use for natural language processing is studied in detail A large number of programs illustrate the advantages and current limitations of each feature This book is essential reading for advanced undergraduates and



graduates in computational linguistics and cognitive science It will also interest engineers involved in the development of natural language techniques      **Arbeiten zu Text und Sprache im Alten Testament** ,1990

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