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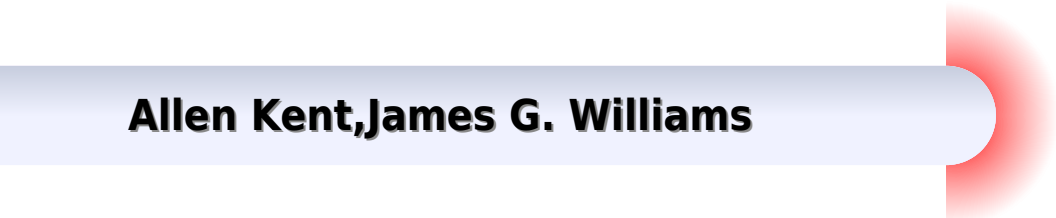
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# Natural Language Processing For Prolog Programmers

**Allen Kent, James G. Williams**



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[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 recognisers 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 Programming in Depth** Michael A. Covington,Donald Nute,André Vellino,1988

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computational level This book aims to show that a programming language based on a simply typed version of higher order logic provides an elegant declarative means for providing such a treatment Three broad topics are covered in pursuit of this goal First a proof theoretic framework that supports a general view of logic programming is identified Second an actual language called Prolog is developed by applying this view to higher order logic Finally a methodology for programming with specifications is exposed by showing how several computations over formal objects such as logical formulas functional programs and terms and calculus expressions can be encoded in Prolog

*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 natrua 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 intepretation 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

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*Information Systems And Technologies For Network Society: Proceedings Of The Ipsj International Symposium* Yahiko Kambayashi,Yoshifumi Masunaga,Makoto Takizawa,Yuichiro Anzai,1997-09-09 This volume contains technical papers and panel position papers selected from the proceedings of the International Symposium on Information Systems and Technologies for Network Society held together with the IPSJ information processing society of Japan National Convention in September 1997 Papers were submitted from all over the world especially from Japan Korea and China Since these countries are believed to form one of the major computer manufacturing centers in the world a panel on Computer Science Education for the 21st Century was set up A special session on the Japanese project on Software Engineering invited representative researchers from the project which is supported by the Ministry of Education Japan

PROLOG, Programming Techniques and Applications Susan Garavaglia,1987

**Encyclopedia of Microcomputers** Allen Kent,James G. Williams,2001-06-20 Achieving Synergy Between Computer Power and Human Resources to Temporal and Modal Logic Programming Languages

**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

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 compilations 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     Advanced Turbo Prolog Programming Dan Shafer,1987 For immediate to advanced programmers who understand this powerful AL language and want to build on that knowledge     Computational Linguistics ,1999     □□□□ ,2002     Introduction to Artificial Intelligence Dr.K.S.Gomathi,2025-04-10 Dr K S Gomathi Principal and Head Department of Computer Science and Computer Applications Madurai Gandhi N M R Subbaraman College for Women Madurai Tamil Nadu India     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     **Programming Languages** Doris Appleby,Julius J. VandeKopple,1997 Programming Languages Paradigm and Practice second edition offers an up to date presentation of the concepts theories and histories of the numerous high level programming languages The book gives equal weight to both imperative Pascal C C Ada etc and declarative paradigms Prolog LISP SQL SETL etc while emphasizing theoretical foundations for different language types

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