



Logic Programming - Prolog

- PROgramming in LOGic: PROLOG
 - 1980s
- Brings logic into computer programs
- Express specifications for *problem solving* in formal logic
 - relations
 - logical variables

Logic Programming And Prolog

Ulf Nilsson



Logic Programming And Prolog:

Logic, Programming and Prolog Ulf Nilsson, Jan Maluszynski, 1995-08-30 What sets this book apart from others on logic programming is the breadth of its coverage The authors have achieved a fine balance between a clear and authoritative treatment of the theory and a practical problem solving approach to its applications This edition introduces major new developments in a continually evolving field and includes such topics as concurrency and equational and constraint logic programming

Programming in Prolog W. F. Clocksin, C. S. Mellish, 2012-12-06 The computer programming language Prolog is quickly gaining popularity throughout the world Since Its beginnings around 1970 Prolog has been chosen by many programmers for applications of symbolic computation including D relational databases D mathematical logic D abstract problem solving D understanding natural language D architectural design D symbolic equation solving D biochemical structure analysis D many areas of artificial Intelligence Until now there has been no textbook with the aim of teaching Prolog as a practical programming language It Is perhaps a tribute to Prolog that so many people have been motivated to learn It by referring to the necessarily concise reference manuals a few published papers and by the orally transmitted folklore of the modern computing community However as Prolog is beginning to be Introduced to large numbers of undergraduate and postgraduate students many of our colleagues have expressed a great need for a tutorial guide to learning Prolog We hope this little book will go some way towards meeting this need Many newcomers to Prolog find that the task of writing a Prolog program Is not like specifying an algorithm in the same way as In a conventional programming language Instead the Prolog programmer asks more what formal relationships and objects occur In his problem

Logic Programming with Prolog Max A. Bramer, 2005-07-13 Written for those who wish to learn Prolog as a powerful software development tool but do not necessarily have any background in logic or AI Includes a full glossary of the technical terms and self assessment exercises

Prolog Versus You Anna-Lena Johansson, Agneta Eriksson-Granskog, Anneli Edman, 2012-12-06 Prolog Versus You shows how you can take up the gauntlet of the logic programming language Prolog PROgramming in LOGic and use it as an obedient programming and problem solving tool Logic programming emphasizes that programming is a human activity and consequently that programs should be easy for humans to write understand and manipulate In a program knowledge about the problem is stated in a logical language without consideration of the underlying machine language This book has emerged from undergraduate courses in logic programming The relation to logic is described and the necessary logic is provided continuously No previous programming experience is assumed and it can be used by beginners as well as by advanced programmers The book emphasizes the declarative reading of Prolog programs which greatly facilitates the thinking about the problems and yields programs easy to understand The book covers logic programs their execution and data structures databases and expert systems program synthesis program correctness and program transformation as well as an efficient computation of Prolog programs Each chapter ends with some exercises with solutions The book also contains a

thorough index appendices and a chapter on Prolog implementations DECsystem 10 Prolog Tricia Quintus Prolog MProlog Turbo Prolog micro Prolog and LM Prolog

Logic Programming with Prolog Max Bramer, 2013-11-08 Logic Programming is the name given to a distinctive style of programming very different from that of conventional programming languages such as C and Java By far the most widely used Logic Programming language is Prolog Prolog is a good choice for developing complex applications especially in the field of Artificial Intelligence Logic Programming with Prolog does not assume that the reader is an experienced programmer or has a background in Mathematics Logic or Artificial Intelligence It starts from scratch and aims to arrive at the point where quite powerful programs can be written in the language It is intended both as a textbook for an introductory course and as a self study book On completion readers will know enough to use Prolog in their own research or practical projects Each chapter has self assessment exercises so that readers may check their own progress A glossary of the technical terms used completes the book This second edition has been revised to be fully compatible with SWI Prolog a popular multi platform public domain implementation of the language Additional chapters have been added covering the use of Prolog to analyse English sentences and to illustrate how Prolog can be used to implement applications of an Artificial Intelligence kind Max Bramer is Emeritus Professor of Information Technology at the University of Portsmouth England He has taught Prolog to undergraduate computer science students and used Prolog in his own work for many years

P-prolog: A Parallel Logic Programming Language Rong Yang, 1988-01-01 P Prolog is put forward as an alternative proposal to the difficulties faced in the main research areas of parallel logic programmings which have been studied P Prolog provides the advantages of guarded Horn clauses while retaining don't know non determinism where required This monograph presents also an or tree model and an implementation scheme for it to combine and and or parallelism with reasonable efficiency The model and implementation scheme discussed can be applied to P Prolog and other parallel logic languages

From Logic Programming to Prolog Krzysztof R. Apt, 1997 Provides a systematic introduction to the theory of logic programming and shows how this theory can be applied to reason about pure Prolog programs The text includes an introduction to programming in Prolog and deals with such programming issues as determination occur check freedom and absence of errors It covers both the natural interpretations of logic programming as declarative specification and as procedure for computer execution

An Introduction to Logic Programming Through Prolog J. M. Spivey, 1996 Logic programming has increasing significance in computer science beyond the current fashion for expert systems This book takes a software engineering rather than an expert systems AI approach and covers logical theory practical programming and PROLOG im

Programming in Prolog William F. Clocksin, Christopher S. Mellish, 2012-12-06 The continued popularity of Prolog and of logic programming in general has called for a new edition in which we have corrected a few minor errors found in the previous edition Since the previous edition of this book the development of Prolog has proceeded with much vigour and creativity on the part of hundreds of researchers around the world For example the International Conference on Logic

Programming will meet in 1995 for the twelfth time the Internet newsgroup comp 1 ang pro log exchanges many messages daily and there are numerous World Wide Web resources of interest to Prolog users It is no longer possible to track the many books on Prolog and implementations of Prolog that are now available The Prolog idea has been extended to new languages for manipulating sets of constraints functional expressions type hierarchies and object oriented programs And yet throughout this time the Edinburgh Prolog syntax and semantics have served as a standard and as a base of stability In tum we hope that this book can continue to serve as an introduction to the language and its use Cambridge England W F C July 1994 C S M

PREFACE TO THE THIRD EDITION We have added new material to Chapter 3 to give an account of up to date programming techniques using accumulators and difference structures Chapter 8 contains some new information on syntax errors Operator precedences are now compatible with the most widely used implementations Why Prolog? Gregory L. Lazarev,1989

Foundations of Logic Programming J. W. Lloyd,2012-12-06 This book gives an account oC the mathematical Coundations oC logic programming I have attempted to make the book selC contained by including prooCs of almost all the results needed The only prerequisites are some Camiliarity with a logic programming language such as PROLOG and a certain mathematical maturity For example the reader should be Camiliar with induction arguments and be comCortable manipulating logical expressions Also the last chapter assumes some acquaintance with the elementary aspects of metric spaces especially properties oC continuous mappings and compact spaces Chapter 1 presents the declarative aspects of logic programming This chapter contains the basic material Crom first order logic and fixpoint theory which will be required The main concepts discussed here are those oC a logic program model correct answer substitution and fixpoint Also the unification algorithm is discussed in some detail Chapter 2 is concerned with the procedural semantics oC logic programs The declarative concepts are implemented by means oC a specialized Corm oC resolution called SLD resolution The main results of this chapter concern the soundness and completeness oC SLD resolution and the independence oC the computation rule We also discuss the implications of omitting the occur check from PROLOG implementations Chapter 3 discusses negation Current PROLOG systems implement a form of negation by means of the negation as failure rule The main results of this chapter are the soundness and completeness oC the negation as failure rule **PROLOG** Pierre Deransart,Abdelali Ed-Dbali,Laurent Cervoni,1996-04-15

Programming in Prolog William F. Clocksin,Christopher S. Mellish,2003 Originally published in 1981 this was the first textbook on programming in the Prolog language and is still the definitive introductory text on Prolog Though many Prolog textbooks have been published since this one has withstood the test of time because of its comprehensiveness tutorial approach and emphasis on general programming applications Prolog has continued to attract a great deal of interest in the computer science community and has turned out to be a basis for an important new generation of programming languages and systems for Artificial Intelligence Since the previous edition of Programming in Prolog the language has been standardised by the International Organization for Standardization ISO and

this book has been updated accordingly The authors have also introduced some new material clarified some explanations corrected a number of minor errors and removed appendices about Prolog systems that are now obsolete From Publisher

Prolog by Example Helder Coelho, Jose C. Cotta, 2012-12-06 Prolog has a declarative style A predicate definition includes both the input and output parameters and it allows a programmer to define a desired result without being concerned about the detailed instructions of how it is to be computed Such a declarative language offers a solution to the software crisis because it is shorter and more concise more powerful and understandable than present day languages Logic highlights novel aspects of programming namely using the same program to compute a relation and its inverse and supporting deductive retrieval of information This is a book about using Prolog Its real point is the examples introduced from Chapter 3 onwards and so a Prolog programmer does not need to read Chapters 1 and 2 which are oriented more to teachers and to students respectively The book is recommended for introductory and advanced university courses where students may need to remember the basics about logic programming and Prolog before starting doing Chapters 1 and 2 were also kept for the sake of unity of the whole material In Chapter 1 a teaching strategy is explained based on the key concepts of Prolog which are novel aspects of programming Prolog is enhanced as a computer programming language used for solving problems that involve objects and the relationships between objects This chapter provides a pedagogical tour of prescriptions for the organization of Prolog programs by pointing out the main drawbacks novices may encounter

Prolog Anthony Dodd, Tony Dodd, 1990 Procedural programming languages such as FORTRAN Pascal and C expect the programmer to build a representation of the solution to a problem using a model of the execution process of a computer The goal of logic programming is to provide a higher level formalism in which the solution is represented using a formal representation that was in use before computers were invented human reasoning The present volume starts with an explanation of how logic may be used as a programming language and then explains the practical limitations that at present restrict logic programmers to the use of the subset of logic embodied in the Prolog programming language Enhancements to Prolog that compensate for the weakness of its underlying logic but compromise the purity of the language are then introduced Most Prolog systems add to the logical core of the language a bewildering variety of extra features for procedural tasks such as input output The second part of the book presents some of the most common features including facilities that are common to all Prologs There is also an account of more abstruse topics such as garbage collection The third part of the volume is concerned with programming style Its principal aim is to show that despite the illogicalities in Prolog a number of design criteria are available that conform to the principles of logic programming Efficiency of programs is also considered at length An approach to debugging Prolog programs is discussed and there is an extended example showing how an application is developed

Logic, Programming and Prolog Ulf Nilsson, **Prolog++** Christopher D. S. Moss, Chris Moss, 1994 The first book on Prolog an important new language combining object orientation with logic programming Includes tutorial style

with worked examples exercises summaries etc significant applications coverage state of the art coverage of other approaches including parallel language and distributed databases *The Art of Prolog, second edition* Leon S. Sterling, Ehud Y. Shapiro, 1994-03-10 This new edition of The Art of Prolog contains a number of important changes Most background sections at the end of each chapter have been updated to take account of important recent research results the references have been greatly expanded and more advanced exercises have been added which have been used successfully in teaching the course Part II The Prolog Language has been modified to be compatible with the new Prolog standard and the chapter on program development has been significantly altered the predicates defined have been moved to more appropriate chapters the section on efficiency has been moved to the considerably expanded chapter on cuts and negation and a new section has been added on stepwise enhancement a systematic way of constructing Prolog programs developed by Leon Sterling All but one of the chapters in Part III Advanced Prolog Programming Techniques have been substantially changed with some major rearrangements A new chapter on interpreters describes a rule language and interpreter for expert systems which better illustrates how Prolog should be used to construct expert systems The chapter on program transformation is completely new and the chapter on logic grammars adds new material for recognizing simple languages showing how grammars apply to more computer science examples **Logic and Objects** Frank G. McCabe, 1992 The issues involved in augmenting logic programming with object oriented features are explored in this book A new language built on top of logic is introduced and programming examples illustrate the power of the extension highlighting inheritance and the construction of modules **Logic with Prolog** Peter Gibbins, 1988 This book is an introduction to the essential ideas of formal logic and to the new field of logic programming which is beginning to have an impact on the traditional area of conventional software engineering Logical concepts and how they may be implemented in the logic programming language Prolog are emphasized The authors discuss parsers pretty printers programming language interpreters interactive proof checkers theorem provers of various kinds and implements versions of Prolog The early part of the book deals with Prolog as a programming language and how it can be used The core of the book deals with the propositional and predicate calculi which are treated conventionally via natural deduction systems The theory behind automatic theorem proving is sketched The last two chapters examine the logic of a specified small programming imperative language and the restricted logic of real Prolog Philosophical questions are also considered

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