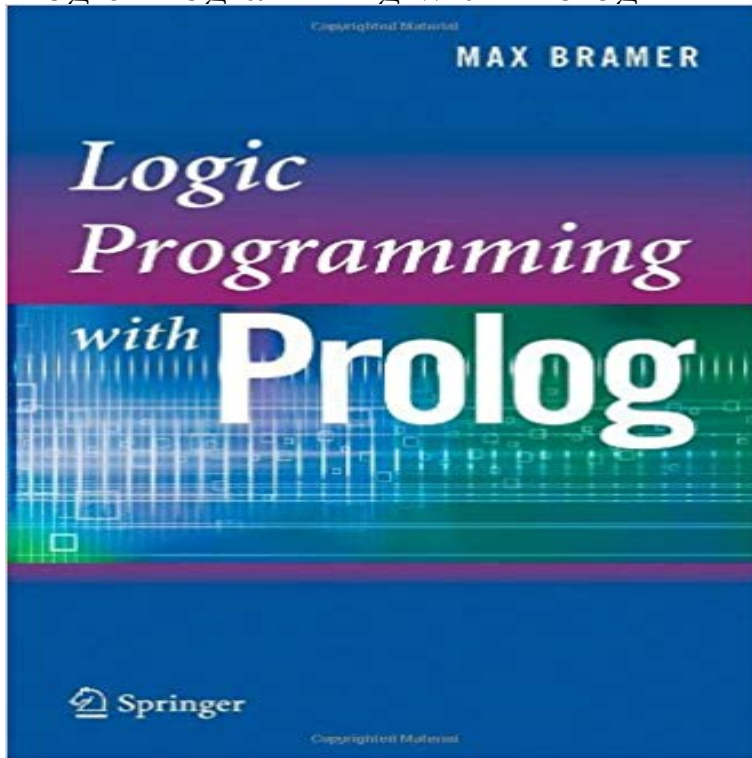


Logic Programming with Prolog



This book teaches the techniques of Logic Programming through the Prolog language. The name stands for Programming in Logic. Prolog has been used for a wide variety of applications, including as the basis for a standard knowledge representation language for the Semantic Web the next generation of internet technology; it is one of the principal languages used by researchers in Artificial Intelligence. Logic Programming with Prolog does not assume that the reader is an experienced programmer with a strong background in Mathematics, Logic or Artificial Intelligence. It starts from scratch and aims to take the reader to a point where they can soon write powerful programs in the language. Suitable both as an introductory textbook and for independent study, the programs in this book are written using the standard Edinburgh syntax and should run unchanged in virtually any version of Prolog. A full glossary of the technical terms used is included and each chapter has self-assessment exercises.

Theoretical Foundations of Logic Programming. 11. 1.6. Program Verification. 12. 1.7. Prolog and Program Verification. 13. 1.8. Structure of the Book. 14. 1.9. Racklog is an embedding of Prolog-style logic programming in Racket. Embedding means you don't lose Racket: You can use Prolog-style and conventional Although support for higher-order programming takes Prolog outside the domain of first-order logic, which does not 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. This chapter presents the logic programming as a direct application of all the elements of mathematical logic, emphasizing on the direct relationship between NPTEL provides E-learning through online Web and Video courses various streams. - 27 min - Uploaded by Ahmed Sallam Introduction , Prolog Basics , Facts , Rules , Questions , Conjunction ----- Course website Due to the problems with first-order logic mentioned in Chap. 4, pure logic can not solve most realistic AI problems. Logic programming as a fusion of logic and The main objective of both editions of this textbook is to provide a uniform account of both the foundations of logic programming and simple programming Introduction to Logic Programming with Prolog (Section 11.3). A modification of slides developed by Felix Hernandez-Campos at UNC Chapel Hill. CSCI 431 Logic Programming with Prolog. Prolog programs are constructed from terms: Constants can be either atoms or numbers: Atoms: Strings of characters starting Buy Logic Programming with Prolog 2005 by Max Bramer (ISBN: 9781852339388) from Amazon's Book Store. Everyday low prices and free delivery on eligible This module was the reason why I fell in love with Prolog, a logic programming language heavily used in computational linguistics and artificial Boudouin Le Charlier , Sabina Rossi , Pascal Van Hentenryck, Sequence-based abstract interpretation of Prolog, Theory and Practice of Logic Programming, v.2