



# Prolog Programming for Artificial Intelligence (4th Edition) (International Computer Science Series)

*By Ivan Bratko*

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This best-selling guide to Prolog and Artificial Intelligence, which has been updated to include key developments in the field, concentrates on the art of using the basic mechanisms of Prolog to solve interesting AI problems.

- Combined approach to Prolog and AI allows flexibility for learning and teaching.
- Provides a thorough representation of AI, emphasizing practical techniques and Prolog implementations.
- Prolog programs for use in projects and research are available for download from the companion website <http://www.pearsoned.co.uk/bratko>

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## **Editorial Review**

From the Back Cover

The fourth edition of this best-selling guide to Prolog and Artificial Intelligence has been updated to include key developments in the field while retaining its lucid approach to these topics. Divided into two parts, the first part of the book introduces the programming language Prolog, while the second part teaches Artificial Intelligence using Prolog as a tool for the implementation of AI techniques.

Prolog has its roots in logic; however the main aim of this book is to teach Prolog as a practical programming tool. This text therefore concentrates on the art of using the basic mechanisms of Prolog to solve interesting problems. The fourth edition has been fully revised and extended to provide an even greater range of applications, which further enhance its value as a self-contained guide to Prolog, AI or AI Programming for students and professional programmers alike.

### **Features:**

- Combined approach to Prolog and AI allows flexibility for learning and teaching
- Provides a thorough representation of AI, emphasizing practical techniques and Prolog implementations
- Prolog programs in the book are available for download from the book's companion website at **[www.pearsoned.co.uk/bratko](http://www.pearsoned.co.uk/bratko)** . Lecturers visiting the website have access to PowerPoint slides.

### **New for this edition:**

- Coverage of constraint logic programming (CLP) is extended and now introduced earlier in the book, in the Prolog part
- Most of the existing chapters on AI techniques have been systematically improved and updated
- Coverage of planning methods is deepened in a new chapter that includes implementations of partial order planning and the GRAPHPLAN approach
- The treatment of search methods now includes an RTA\* program (real-time A\* search)
- The chapter on meta-programming (now chapter 25) is extended by the addition of sections on abductive reasoning, query-the-user interpreter, and a sketch of CLP interpreter, all implemented as Prolog meta-interpreters

- Programming examples are refreshed throughout the book, making them more interesting and practical. One such example introduces semantic reasoning with the well-known lexical database WordNet®

**Author:**

Professor Ivan Bratko leads the AI Lab in the Faculty of Computer and Information Science at the University of Ljubljana. He has taught Prolog worldwide, as well as applied Prolog in medical expert systems, robot programming, qualitative modelling and computer chess research.

**About the Author**

**Professor Ivan Bratko** leads the AI Lab in the Faculty of Computer and Information Science at Ljubljana University. He has taught Prolog world-wide as well as applying Prolog in medical expert systems, robot programming, qualitative modelling and computer chess research.

**Users Review****From reader reviews:****Brandi Anderson:**

Precisely why? Because this Prolog Programming for Artificial Intelligence (4th Edition) (International Computer Science Series) is an unordinary book that the inside of the book waiting for you to snap the idea but latter it will distress you with the secret the item inside. Reading this book beside it was fantastic author who also write the book in such amazing way makes the content inside easier to understand, entertaining way but still convey the meaning entirely. So , it is good for you for not hesitating having this any longer or you going to regret it. This phenomenal book will give you a lot of gains than the other book have such as help improving your ability and your critical thinking technique. So , still want to postpone having that book? If I had been you I will go to the publication store hurriedly.

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