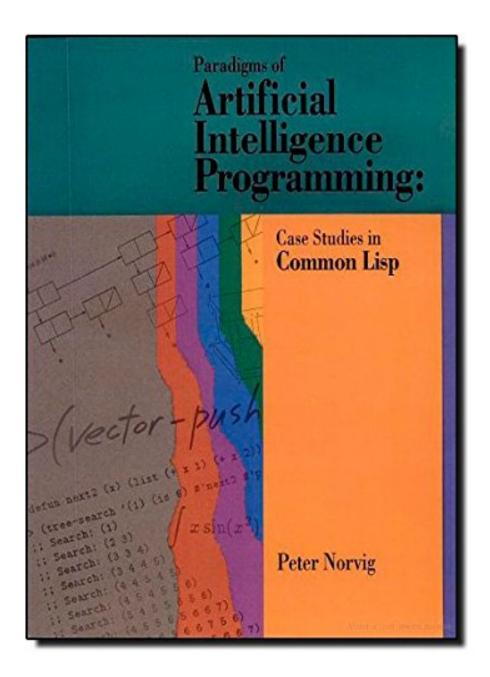


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This is an overview of classical artificial intelligence (AI) programming via actual implementation of landmark systems (case studies). For the student interested in AI, Paradigms of Artificial Intelligence Programming is an invaluable history lesson. Even the programmer who is relatively uninterested in AI will find value in the book's basic introduction to Lisp and case studies written in Lisp. But perhaps the book's best feature is its information on efficiency considerations in Lisp. Paradigms of Artificial Intelligence Programming is worth purchasing for these discussions alone, which provide a wealth of useful guidelines for optimizing your code.

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Paradigms of AI Programming teaches advanced Common Lisp techniques in the context of building major AI systems. By reconstructing authentic, complex AI programs using state-of-the-art Common Lisp, the book teaches students and professionals how to build and debug robust practical programs, while demonstrating superior programming style and important AI concepts. The author strongly emphasizes the practical, performance issues of writing real working programs of significant size, including chapters on troubleshooting and efficiency. A discussion of the fundamentals of object-oriented programming and a description of the main CLOS functions are included. This volume is an excellent text for a course on AI programming, a useful supplement for general AI courses and an indispensable reference for the professional programmer. -- Book Description

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1 of 1 people found the following review helpful.

A good AI book and an advanced 1000-page CL tutorial

By Victor Lemeshev

As for AI part I must say that even though this book is somewhat old, its still very good for people new to the world of AI (such as myself). Since I only have another Norvig's book (http://www.amazon.com/Artificial-Intelligence-Modern-Approach-Edition/dp/0137903952/ref=sr_1_3?ie=UTF8&qid=1359373092&sr=8-3&keywords=Norvig) to compare to

I must say that this book takes a more practical approach, allowing one to understand ways in which implementation efficiency can be improved.

For CL part - the best CL introduction and real world usage book in my opinion. Yes, I've read PCL, yet still this book digs a lot deeper when it comes to optimization patterns for Common Lisp. Motivation for almost every design choice is clear (overcoming Prolog's drawbacks is one of my favorite parts).

Also this book offers a variety of exercises and some of those are quite a time-killers.

As for cons - some of the exercises are formulated a bit freely. And again, book is 20 years old, so some content is a bit outdated, especially techno-related.

19 of 21 people found the following review helpful. A mediocre AI / LISP book with very well-written examples By Aditya First, the good:

This book is a great read, both the code and non-code sections. Peter Norvig is clearly passionate about AI, and it comes through in his examples. His writing is clear and fun to read. His code examples are fantastic. When he begins a chapter by describing a problem, you think "wow, that's going to take ages to get through." Then you flip the page, and he's got all the code down on the next page. It's a real joy to see clear, concise, well-written code like this. This is probably what musicians feel when they listen to a Beethoven sonata.

The bad: the examples are historical (read: dated), and they don't teach you a whole lot about either AI or Lisp. If you know depth first search and regular expressions, you can breeze through the first 250 pages of this book: it won't show you anything besides some very well-written code (which, let me emphasize again, is really great to read). Unless you are using Lisp as your programming language (I'm using Haskell), section 3 (optimizing your Lisp code + Logic programming) will be hit and miss too.

So, to sum up:

If you want to learn Lisp, Norvig recommends Paul Graham's book. If you want to learn AI, Norvig has written AI: A Modern Approach.

I spent five bucks on a used copy of this book, and felt like I got my money's worth. I would definitely not spend \$80+ on it.

0 of 0 people found the following review helpful. Excellent for both AI and Common Lisp By m00nlight This is a excellent book for both the history of AI and a lot of program written very well in Common Lisp. Peter Norvig is actually very enthusastic about AI and programming. From a glimpse of the book, I know it is valuable for learner both of AI and Common Lisp. So I decided to buy one for myself.

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