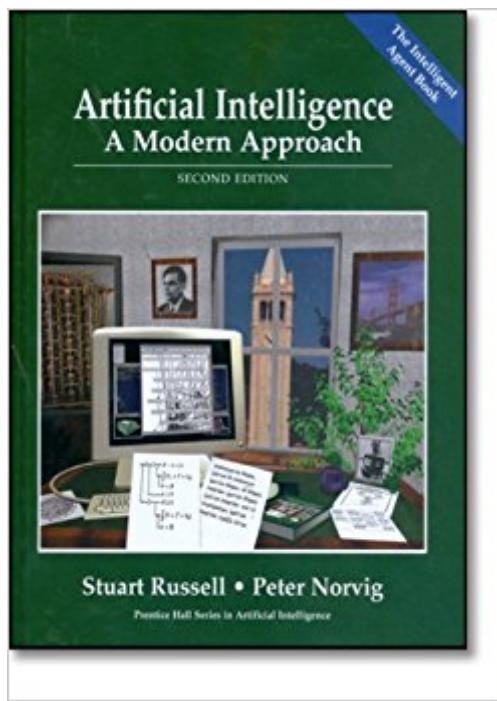


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# Artificial Intelligence: A Modern Approach (2nd Edition)



## **Synopsis**

For one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence. The long-anticipated revision of this best-selling text offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. Click on "Features" tab below for more information Resources: Visit the author's website <http://aima.cs.berkeley.edu/> to access both student and instructor resources including Power Point slides, syllabus, homework and exams, and solutions text problems.

## **Book Information**

Hardcover: 1132 pages

Publisher: Prentice Hall; 2 edition (December 30, 2002)

Language: English

ISBN-10: 0137903952

ISBN-13: 978-0137903955

Product Dimensions: 8.3 x 1.8 x 10.1 inches

Shipping Weight: 4.8 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 73 customer reviews

Best Sellers Rank: #124,463 in Books (See Top 100 in Books) #41 in Books > Textbooks > Computer Science > Artificial Intelligence #114 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Intelligence & Semantics #858 in Books > Computers & Technology > Programming > Languages & Tools

## **Customer Reviews**

"The publication of this textbook was a major step forward, not only for the teaching of AI, but for the unified view of the field that this book introduces. Even for experts in the field, there are important insights in almost every chapter." &#151; Prof. Thomas Dietterich, Oregon State "Just terrific. The book I've always been waiting for...the AI bible for the next decade." &#151; Prof. Gerd Brewka (Vienna) "A marvelous achievement, a truly beautiful book!" &#151; Prof. Selmer Bringsjord, RPI "It's a great book, with incredible breadth and depth, and very well-written. Everyone I know who has used it in their class has loved it." &#151; Prof. Haym Hirsh, Rutgers "I am deeply impressed by its unprecedented quality in presenting a coherent, balanced, broad and deep, enjoyable picture of the field of AI. It will become the standard text for the years to come." &#151; Prof. Wolfgang Bibel, Darmstadt "Terrific! Well-written and well-organised, with comprehensive coverage of the material that every AI student should know." &#151; Prof. Martha Pollack (Michigan) "Outstanding ... Its

descriptions are extremely clear and readable; its organization is excellent; its examples are motivating; and its coverage is scholarly and throughout! ...will deservedly dominate the field for some time." &#151; Prof. Nils Nilsson, Stanford"The best book available now...It's almost as good as the book Charniak and I wrote, but more up to date. (Okay I'll admit it, it may even be better than our book.)" &#151; Prof. Drew McDermott, Yale"A magisterial wide scope account of the entire field of Artificial Intelligence that will enlighten professors as well as students." &#151; Dr. Alan Kay"This is the book that made me love AI." &#151; Student (Indonesia)

The first edition of Artificial Intelligence: A Modern Approach has become a classic in the AI literature. It has been adopted by over 600 universities in 60 countries, and has been praised as the definitive synthesis of the field. In the second edition, every chapter has been extensively rewritten. Significant new material has been introduced to cover areas such as constraint satisfaction, fast propositional inference, planning graphs, internet agents, exact probabilistic inference, Markov Chain Monte Carlo techniques, Kalman filters, ensemble learning methods, statistical learning, probabilistic natural language models, probabilistic robotics, and ethical aspects of AI. The book is supported by a suite of online resources including source code, figures, lecture slides, a directory of over 800 links to "AI on the Web," and an online discussion group. All of this is available at: [aima.cs.berkeley.edu](http://aima.cs.berkeley.edu)

Bought for a class. It's informative and very good. It explains in a simple way anyone can understand.

Good reading.

I am half way through and I like it so far. Frankly I am puzzled by other reviewers complaining about "lack of real code examples", they clearly have not read the book carefully: it comes with tons of sample code (online) written in different languages, publishers/authors simply did not want to waste the precious real estate. The book is nearly a thousand pages already. Otherwise this is a great CS book. Yes there is some math in it, but don't be scared - there is an appendix with all necessary mathematical background you'll need (and you don't need much). I was surprised to see so much historical references in this book, it teaches you not just about most major branches of AI, but also about how they started and where originated from in a "problem -> solution" form. For instance when they talk about genetic algorithms they actually go ahead and write a comprehensive

comparison of analogies between biological evolution, genes and their computer-generated counterparts referencing the original work of Darwin and others. If you're into AI, applied mathematics or computer science, I have no doubt you'll enjoy this book: it's not too focused on something specific (and something you'd need a PhD to understand) while not too shallow and covers fairly wide spectrum of AI problems, including (!) ethical and philosophical issues like "what happens if we succeed?" Highly recommended.

An author of this book is said to have commented that its writing has made him a millionaire. It is used in over 1000 universities for a simple reason, it is good. The book uses the concept of an agent to unify the formerly fragmented field of AI and to link together concepts as diverse as logic programming and ethics. It is very easy to read and touches every area of modern research interest I can think of. The problems have a nice variety of difficulties (although there are no worked-out solutions in the book) and provide a mix between theory and practice, introducing the careful student to concepts and papers not developed in the main text of the chapter. The bibliography is well laid-out and provides useful depth (one of my current research interests was sparked by reading one of the referenced papers in the 2nd chapter). My only complaint so far (not having finished the entire book) is that some of the definitions in chapter 17's whirlwind introduction to game theory were a little vague. But, a quick look at some other sources clarified things immensely. It is rare to find a textbook as interesting and clear as this one. If a professor is requiring that you read it, consider yourself fortunate. If you are thinking of reading it yourself, you also are blessed. Look forward to many pleasant evenings.

I like the book a lot and fits perfect in what I am working! Thank you...

This book is a great survey of Artificial Intelligence that can be used to look back on no matter how experienced in the subject you become. I continue to find the sections that discuss large data set analysis for automated learning to be very grounding. As a student, I am often tempted to find ways to not purchase textbooks as you only end up using them for a semester but this is definitely one that you should spring for if you plan on doing AI work in the future.

Great for intro to AI including chapters on commonly used algorithms e.g., A\* Search, min-max and alpha-beta pruning.

Wonderful book!!!! If you have any interest in AI, you should have a copy of this book.

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