

Pearson 0136042597

Artificial Intelligence: A Modern Approach - User Manual

Product: *Artificial Intelligence: A Modern Approach* | Model: 0136042597 | Brand: Pearson

1. INTRODUCTION

This manual provides guidance for effectively utilizing *Artificial Intelligence: A Modern Approach, 3rd Edition*, a comprehensive textbook authored by Stuart Russell and Peter Norvig. It is designed for students and professionals undertaking one or two-semester courses in Artificial Intelligence at undergraduate or graduate levels. The book serves as a foundational resource for understanding the theory and practice of artificial intelligence.

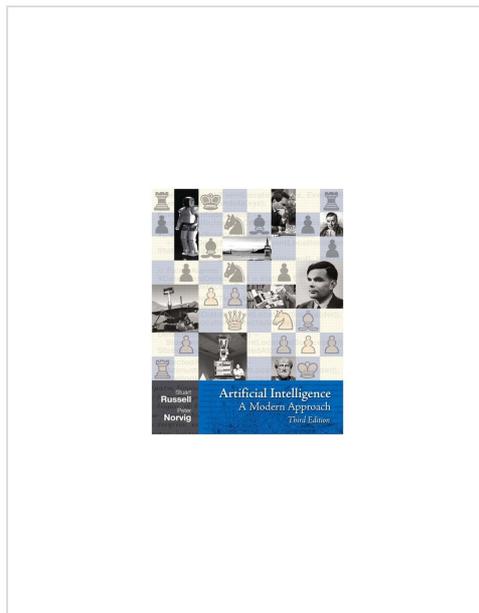


Figure 1.1: Front cover of the textbook, displaying the title, authors Stuart Russell and Peter Norvig, and the edition number.

2. GETTING STARTED

2.1 Prerequisites

To maximize your learning experience with this textbook, a foundational understanding of mathematics, including discrete mathematics, probability, and linear algebra, is beneficial. Familiarity with basic programming concepts and data structures will also aid in comprehending the algorithmic descriptions.

2.2 Companion Resources

The authors and publisher provide supplementary online resources to complement the textbook. These resources may include errata, additional exercises, and code implementations of algorithms discussed in the book. For official course materials and updates related to the authors' work, refer to the official website: <http://www.ai-class.com>.

3. EFFECTIVE STUDY GUIDE

3.1 Navigating the Content

The book is structured into several parts, each covering a distinct area of Artificial Intelligence. It is recommended to read chapters sequentially within each part to build a coherent understanding. Key terms are often bolded (**example**) for emphasis, and important concepts are italicized (*example*).

3.2 Understanding Pseudocode

Algorithms are presented using a consistent pseudocode notation. Pay close attention to indentation and variable definitions. While the book does not provide step-by-step run-throughs for all algorithms, understanding the pseudocode is crucial for implementing and analyzing them.

3.3 Problem Solving

Each chapter typically includes exercises designed to reinforce understanding. Attempting these problems is vital for applying the theoretical knowledge. Solutions or hints for selected exercises may be available through the companion resources.

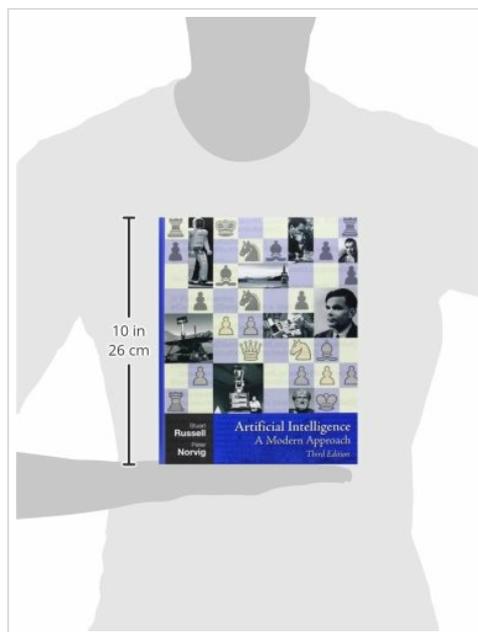


Figure 3.1: The textbook's physical size, illustrating its substantial print length and dimensions.

4. CARE AND HANDLING

To ensure the longevity of your textbook, store it in a dry environment away from direct sunlight and extreme temperatures. Avoid bending the spine excessively or marking pages with permanent ink. For cleaning, use a dry, soft cloth to gently wipe the covers.

5. COMMON CHALLENGES AND SOLUTIONS

5.1 Difficulty with Concepts

If a concept proves challenging, try re-reading the section, consulting the glossary, or referring to the companion website for additional explanations or examples. Discussing with peers or instructors can also provide clarity.

5.2 Pseudocode Implementation Issues

When encountering difficulties implementing pseudocode, verify your understanding of the algorithm's logic. Check for common programming errors such as off-by-one mistakes, incorrect loop conditions, or improper variable initialization.

The companion website may offer reference implementations in various programming languages.

6. PRODUCT SPECIFICATIONS

Attribute	Detail
Title	Artificial Intelligence: A Modern Approach
Authors	Stuart Russell, Peter Norvig
Publisher	Pearson
Publication Date	December 1, 2009
Edition	3rd Edition
Language	English
Print Length	1152 pages
ISBN-10	0136042597
ISBN-13	978-0136042594
Item Weight	4.75 pounds
Dimensions	9.2 x 2.05 x 11.1 inches

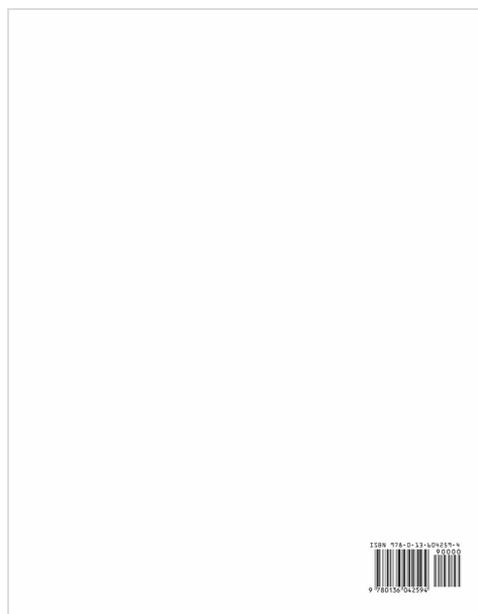


Figure 6.1: Back cover of the textbook, featuring the ISBN-13 barcode (978-0136042594).

7. SUPPORT AND RESOURCES

7.1 Publisher Support

For inquiries regarding the textbook, including content clarification or errata reporting, please refer to the publisher's official website, Pearson, or contact their academic support channels. Specific contact information can typically be found on the publisher's website or within the book's front matter.

7.2 Errata and Updates

While every effort is made to ensure accuracy, minor corrections or updates may be released. It is advisable to periodically check the official companion website for any published errata or supplementary materials that enhance the learning experience.

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Documents - Pearson – 0136042597

no relevant documents