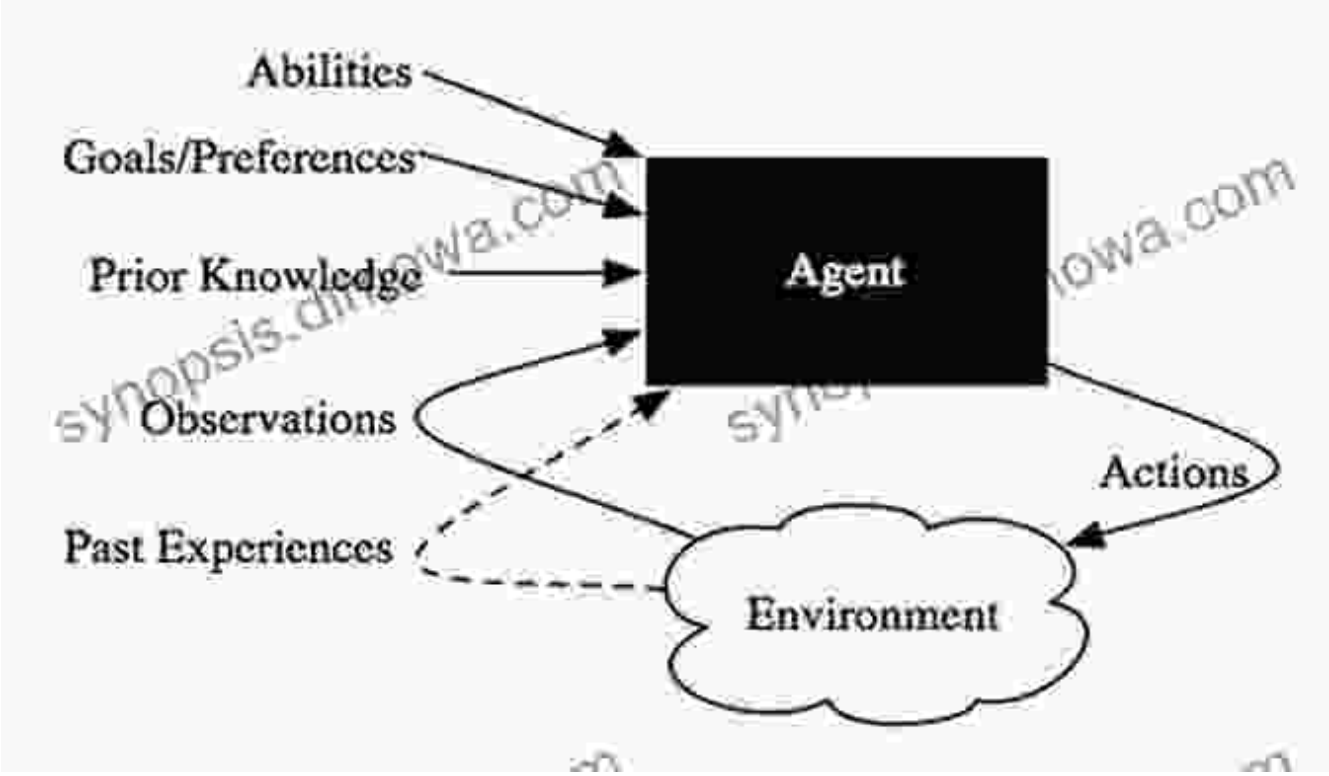
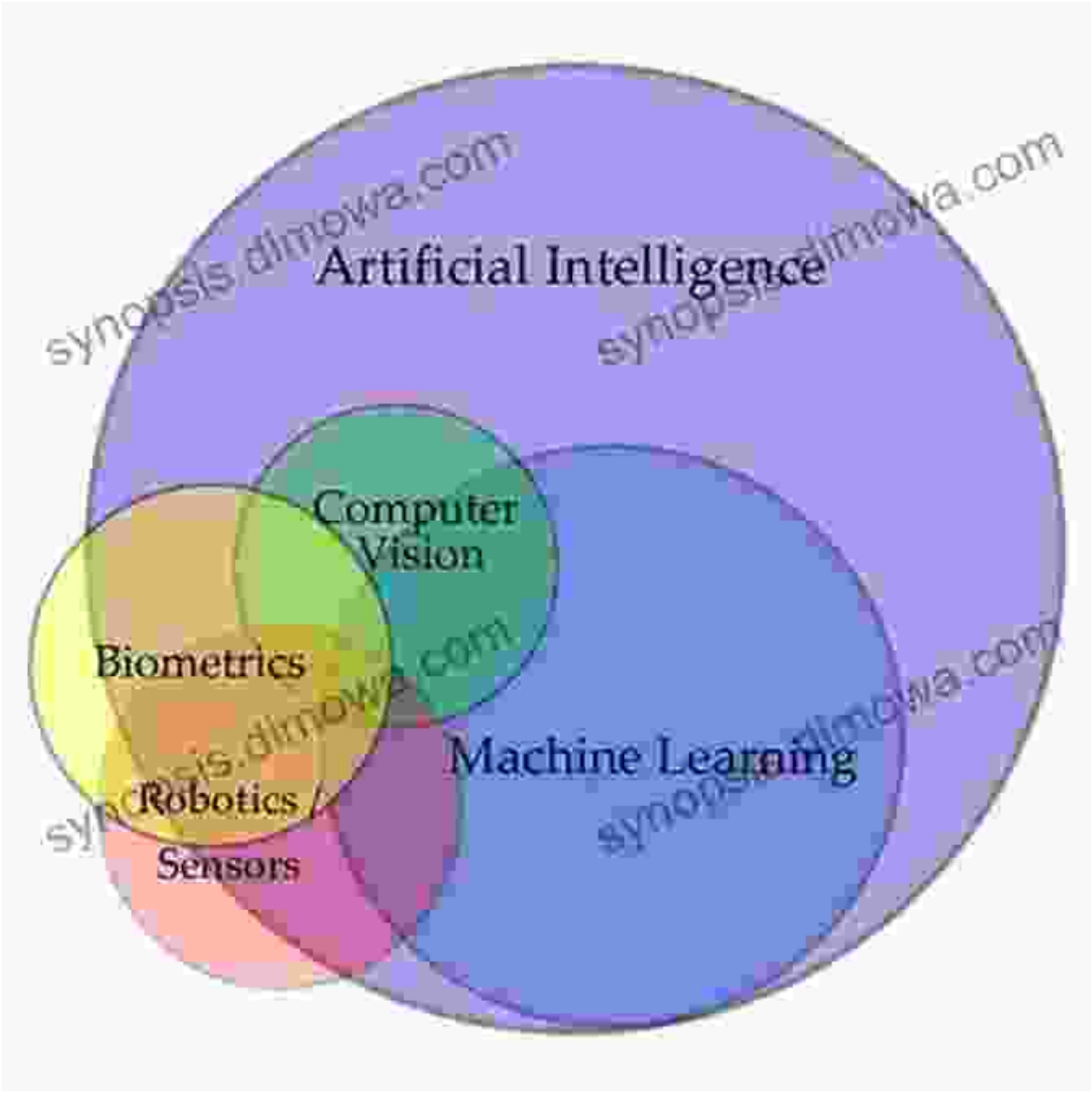
Artificial Intelligence Foundations of Computational Agents: Unlocking the Power of Autonomy

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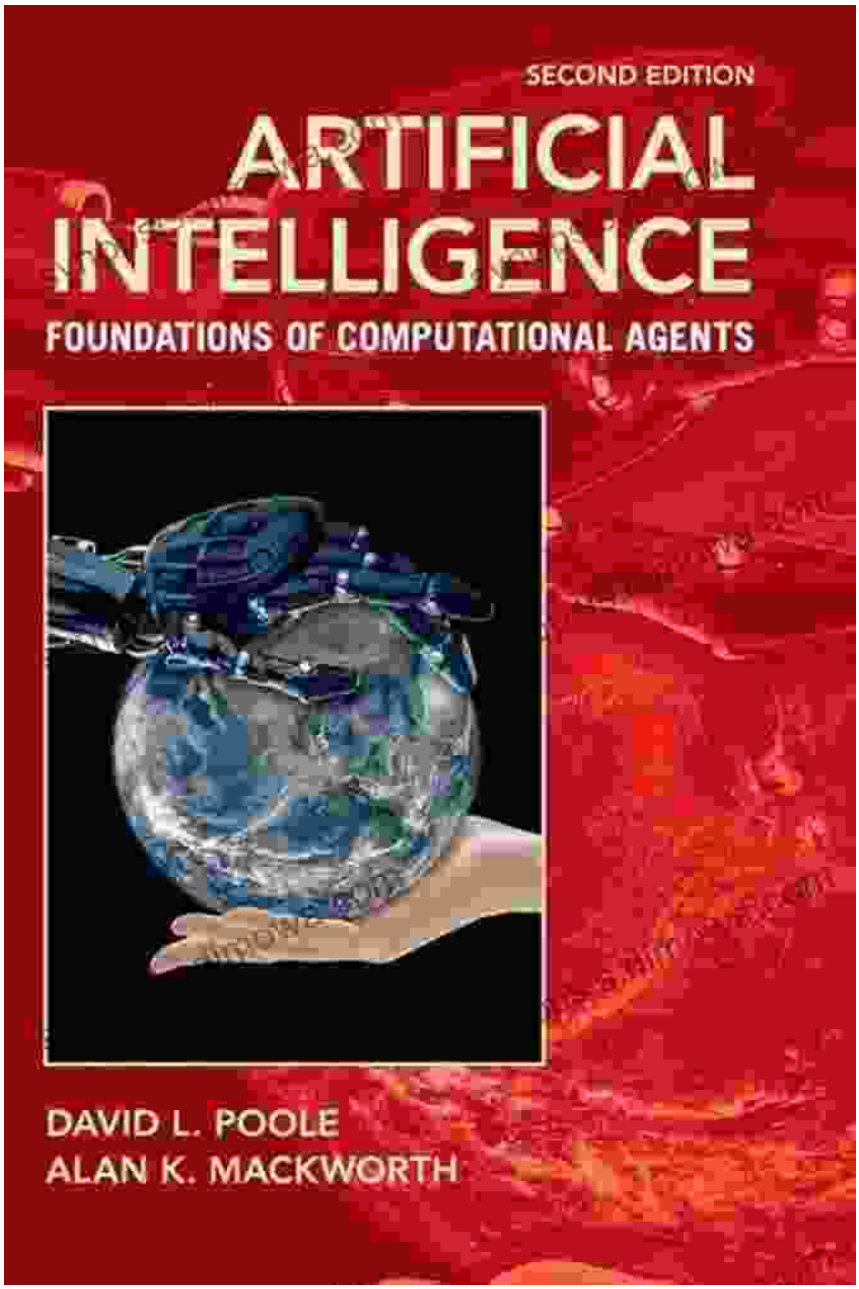

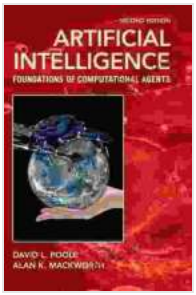

Artificial Intelligence: Foundations of Computational Agents by David L. Poole

4 out of 5

Language	: English
File size	: 18087 KB
Screen Reader	: Supported
Print length	: 820 pages
Item Weight	: 15.2 ounces
Dimensions	: 5.98 x 0.5 x 9.02 inches

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Discover the principles and practices of building intelligent computational agents that can autonomously perceive, reason, and act in complex environments.

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Artificial intelligence (AI) is rapidly transforming our world, and at the heart of this transformation lie computational agents. These autonomous entities can perceive their surroundings, reason about them, and take actions to achieve their goals. Understanding the foundations of computational agents is essential for building and deploying effective AI systems.

Theoretical Foundations

The book "Artificial Intelligence Foundations of Computational Agents" provides a comprehensive overview of the theoretical foundations of computational agents. It covers topics such as:

- The history of AI and computational agents
- The different types of computational agents
- The formalisms used to represent and reason about agents' knowledge and beliefs
- The algorithms used to control agents' behavior

Practical Applications

The book also explores the practical applications of computational agents in various domains, including:

- Robotics
- Autonomous vehicles
- Planning and scheduling
- Healthcare
- E-commerce

Each chapter provides real-world examples and case studies to illustrate how computational agents are being used to solve complex problems and create new opportunities.

Future Prospects

The book concludes with a look at the future prospects of computational agents. It discusses the challenges involved in building more intelligent and autonomous agents, as well as the potential benefits of such advances for society.

Key Features

- Comprehensive coverage of the theoretical foundations of computational agents
- Practical applications in various domains
- Real-world examples and case studies
- Exploration of future prospects and challenges

- Written by leading experts in the field of AI

"Artificial Intelligence Foundations of Computational Agents" is an essential resource for anyone interested in building and deploying effective AI systems. It provides a comprehensive overview of the theoretical foundations and practical applications of computational agents, and explores the future prospects for this exciting field.

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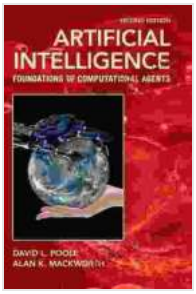

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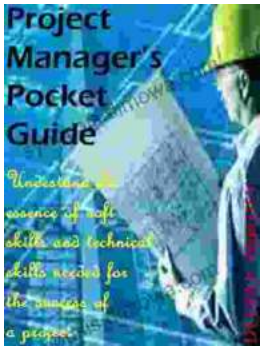

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