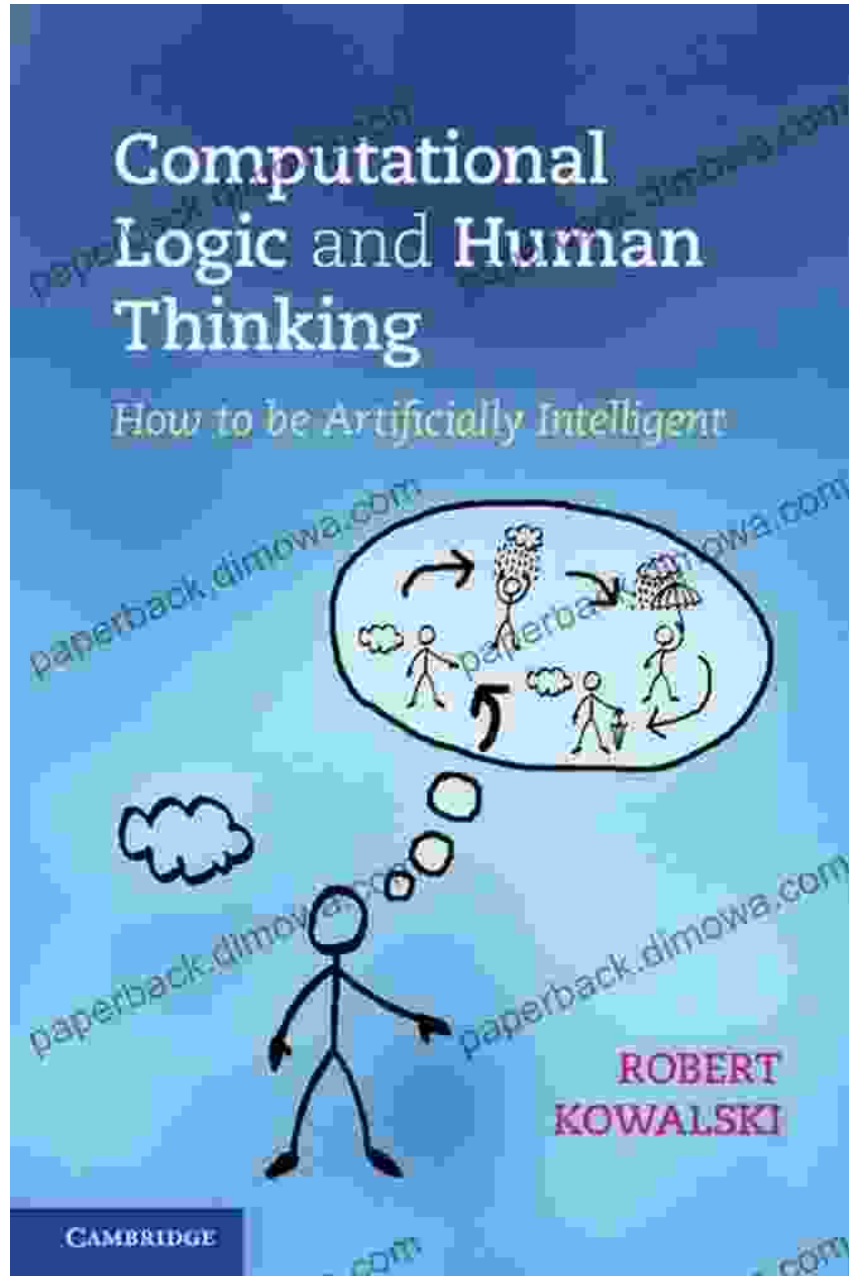


Unlocking the Secrets of Human Thought: Computational Logic and Human Thinking



Computational logic, a branch of artificial intelligence, has emerged as a powerful tool for understanding human thinking. By creating computational models of human reasoning processes, researchers can gain invaluable

insights into the nature of our cognitive abilities and limitations. In the groundbreaking book "Computational Logic and Human Thinking," a team of renowned experts explores the fascinating intersection of computational logic and human thought.



Computational Logic and Human Thinking: How to Be Artificially Intelligent by Robert Kowalski

★ ★ ★ ★ ☆ 4.3 out of 5

Language : English
File size : 4024 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 334 pages
Paperback : 24 pages
Item Weight : 2.88 ounces
Dimensions : 8.5 x 0.06 x 8.5 inches



Bridging the Gap Between Logic and Psychology

"Computational Logic and Human Thinking" bridges the gap between the abstract world of logic and the complexities of human psychology. It introduces readers to the fundamental concepts of computational logic, such as propositional calculus and first-order logic. These concepts are then used to construct computational models of human reasoning, allowing researchers to investigate the validity and soundness of different reasoning strategies.

Unveiling the Mechanisms of Reasoning

The book delves into the mechanisms underlying human reasoning, exploring topics such as:

* **Deductive Reasoning:** The process of drawing logical conclusions from a set of premises. * **Inductive Reasoning:** The process of making generalizations based on observed data. * **Abductive Reasoning:** The process of explaining observations by forming hypotheses. * **Non-Monotonic Reasoning:** The process of reasoning in situations where new information may invalidate previously held beliefs.

Applications in Cognitive Science and Artificial Intelligence

The insights gained from computational models of human reasoning have far-reaching applications in cognitive science and artificial intelligence. The book discusses how computational logic is used in:

* **Cognitive Modeling:** Creating computational models of human cognitive processes, such as memory, attention, and language processing. * **Natural Language Processing:** Developing computer systems that can understand and generate human language. * **Expert Systems:** Building computer systems that can solve problems in specific domains, such as medicine or finance.

Case Studies and Examples

"Computational Logic and Human Thinking" is enriched with numerous case studies and examples that illustrate the practical applications of computational logic in cognitive science and artificial intelligence. These examples provide readers with a deep understanding of how computational models can be used to solve real-world problems.

Key Features

* Comprehensive coverage of computational logic and its applications in human thinking. * Clear and concise explanations for readers of varying backgrounds. * In-depth analysis of deductive, inductive, abductive, and non-monotonic reasoning. * Practical case studies and examples that demonstrate the use of computational logic in real-world applications. * Contributions from leading experts in the field of computational logic and cognitive science.

"Computational Logic and Human Thinking" is a must-read for anyone interested in understanding the connection between logic and human thought. It offers a comprehensive and accessible to the field, providing readers with a solid foundation in computational logic and its applications in cognitive science and artificial intelligence. By illuminating the intricate mechanisms of human reasoning, this book paves the way for future advancements in our understanding of the human mind.



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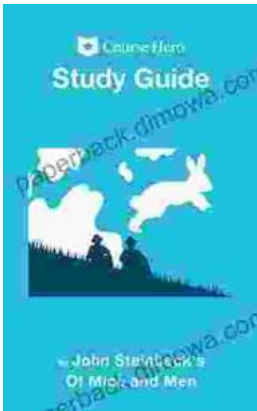
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