

1

An Introduction to Computational Intelligence

The chapter provides an introduction to computational intelligence. It begins with a thorough review of the underlying principles of artificial intelligence, and examines the scope of computational intelligence in overcoming the limitations of the traditional AI. The chapter then briefly introduces various tools of computational intelligence such as fuzzy logic, neural network, genetic algorithm, belief network, chaos theory, computational learning theory and artificial life. The synergistic behavior of the above tools on many occasions far exceeds their individual performance. A discussion on the synergistic behavior of neuro-fuzzy, neuro-GA, neuro-belief and fuzzy-belief network models is also included in the chapter. A list of tutorial problems is appended at the end of the chapter to build up students' ability in handling real world problems.

1.1 Artificial Intelligence- a Brief Review

Artificial intelligence (AI) aims at emulating human intelligence on machines so as to enable these act and think like the human beings. It is a vast discipline of

Computational Intelligence Principles Techniques And Applications

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Table of Contents Computational Intelligence Principles Techniques And Applications

1. Understanding the eBook Computational Intelligence Principles Techniques And Applications
 - The Rise of Digital Reading Computational Intelligence Principles Techniques And Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying Computational Intelligence Principles Techniques And Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computational Intelligence Principles Techniques And Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computational Intelligence Principles Techniques And Applications
 - Personalized Recommendations
 - Computational Intelligence Principles Techniques And Applications User Reviews and Ratings
 - Computational Intelligence Principles Techniques And Applications and Bestseller Lists
5. Accessing Computational Intelligence Principles Techniques And Applications Free and Paid eBooks
 - Computational Intelligence Principles Techniques And Applications Public Domain eBooks
 - Computational Intelligence Principles Techniques And Applications eBook Subscription Services
 - Computational Intelligence Principles Techniques And Applications Budget-Friendly Options

6. Navigating Computational Intelligence Principles Techniques And Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - Computational Intelligence Principles Techniques And Applications Compatibility with Devices
 - Computational Intelligence Principles Techniques And Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computational Intelligence Principles Techniques And Applications
 - Highlighting and Note-Taking Computational Intelligence Principles Techniques And Applications
 - Interactive Elements Computational Intelligence Principles Techniques And Applications
8. Staying Engaged with Computational Intelligence Principles Techniques And Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computational Intelligence Principles Techniques And Applications
9. Balancing eBooks and Physical Books Computational Intelligence Principles Techniques And Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computational Intelligence Principles Techniques And Applications
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Computational Intelligence Principles Techniques And Applications
 - Setting Reading Goals Computational Intelligence Principles Techniques And Applications
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computational Intelligence Principles Techniques And Applications
 - Fact-Checking eBook Content of Computational Intelligence Principles Techniques And Applications
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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