



## Neural Theory

Modeling and Simulation

Neuro-informatics

Computational Neuroscience

## Neural Computing Capabilities

Neural Machine Learning Algorithms

Formal Neural Computing Theory

Configurable CMOS Neural Architectures

Adaptive post-CMOS Neural Architectures

Enabling Advanced Scientific and Data-driven Computing

Deployable National Security Applications

## Neural-enabling hardware

Memory technology

Micro-sensors

Non-von Neumann architectures

# Neural Computing

**Zhe Xu**



## **Neural Computing:**

The book delves into Neural Computing. Neural Computing is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Neural Computing, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Neural Computing
- Chapter 2: Essential Elements of Neural Computing
- Chapter 3: Neural Computing in Everyday Life
- Chapter 4: Neural Computing in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Neural Computing. This chapter will explore what Neural Computing is, why Neural Computing is vital, and how to effectively learn about Neural Computing.
3. In chapter 2, this book will delve into the foundational concepts of Neural Computing. The second chapter will elucidate the essential principles that need to be understood to grasp Neural Computing in its entirety.
4. In chapter 3, the author will examine the practical applications of Neural Computing in daily life. The third chapter will showcase real-world examples of how Neural Computing can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Neural Computing in specific contexts. This chapter will explore how Neural Computing is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Neural Computing. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Neural Computing.

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