

Chapter 11

Hypergraph Computation for Computer Vision



Abstract In this chapter, the applications of hypergraph computation in computer vision are introduced. Computer vision is one of the most widely used areas of hypergraph computation. The hypergraphs can be constructed by modeling the high-order relationship among inter- or intra-visual samples, and then computer vision tasks can be solved by hypergraph computation procedures. More specifically, four typical applications, including visual classification, 3D object retrieval, and tag-based social image retrieval, are provided, in which hypergraphs are used to model high-order relationship among samples and solve visual problems by hypergraph computation. For example, in social image retrieval, hypergraphs are used to model the high-order relationship among social images based on both visual and textual information, which is the high-order modeling of elements within samples.

11.1 Introduction

Hypergraphs have demonstrated excellent performance in modeling high-order relationship of data and have been applied in several fields. In computer vision, this property of hypergraphs is also promising for a wide range of works, and many researches focus on how to use hypergraph modeling to solve visual problems. On one hand, hypergraphs can be used to model high-order relationship of images within a class or different classes, and then to conduct the hypergraph-based label propagation procedures, which is useful for visual classification and retrieval. On the other hand, the relation can be modeled within the elements in a visual object to exploit the structural information.

In this chapter, we discuss four typical applications of hypergraph computation in computer vision, i.e., visual classification [1–6], 3D object retrieval [2, 7–12], and tag-based social image retrieval [13–17]. In these applications, the vertices represent the visual objects, and a hypergraph is constructed to formulate the high-order correlations among all the samples by some metric. In this hypergraph, some vertices are labeled. The prediction of other vertices can be obtained by the label propagation procedure. Visual classification and retrieval problems can be solved by this method. The elements within one sample, such as pixels in an image, can

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Table of Contents Computer Funda Hypergraph Text

1. Understanding the eBook Computer Funda Hypergraph Text
 - The Rise of Digital Reading Computer Funda Hypergraph Text
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Funda Hypergraph Text
 - 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 Computer Funda Hypergraph Text
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Funda Hypergraph Text
 - Personalized Recommendations
 - Computer Funda Hypergraph Text User Reviews and Ratings
 - Computer Funda Hypergraph Text and Bestseller Lists

5. Accessing Computer Funda Hypergraph Text Free and Paid eBooks
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 - Computer Funda Hypergraph Text eBook Subscription Services
 - Computer Funda Hypergraph Text Budget-Friendly Options
6. Navigating Computer Funda Hypergraph Text eBook Formats
 - ePub, PDF, MOBI, and More
 - Computer Funda Hypergraph Text Compatibility with Devices
 - Computer Funda Hypergraph Text Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computer Funda Hypergraph Text
 - Highlighting and Note-Taking Computer Funda Hypergraph Text
 - Interactive Elements Computer Funda Hypergraph Text
8. Staying Engaged with Computer Funda Hypergraph Text
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Funda Hypergraph Text
9. Balancing eBooks and Physical Books Computer Funda Hypergraph Text
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Funda Hypergraph Text
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Computer Funda Hypergraph Text
 - Setting Reading Goals Computer Funda Hypergraph Text
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computer Funda Hypergraph Text
 - Fact-Checking eBook Content of Computer Funda Hypergraph Text
 - 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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