

# Topological Data Analysis and Machine Learning Theory

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## 1 Persistent homology

Perhaps the most important idea in applied algebraic topology is persistence. It is a response to the first difficulty that one encounters in attempting to assign topological invariants to statistical data sets: that the topology is not robust and has a sensitive dependence on the length scale at which the data set is being considered. The solution is to calculate the topology (specifically the homology) at all scales simultaneously, and to encode the relationship between the different scales in an algebraic invariant called the persistence diagram. The effective algorithm for doing so was published in 2000 by Edelsbrunner, Letscher and Zomorodian [2]. Topological data analysis would not be possible without this tool.

Since then, persistence has been developed and understood quite extensively. Cohen-Steiner, Edelsbrunner and Harer [3] proved the important (and nontrivial) theorem that the persistence diagram is stable under perturbations of the initial data. Zomorodian and Carlsson [7] studied persistence algebraically, identifying the points of the persistence diagram with indecomposable summands of a module over the polynomial ring  $k[t]$ , the monomial  $t$  representing a change of scale by a fixed increment. Generalising this approach using polynomial rings with two or more variables, they showed that the corresponding situation with two or more independent length scales is in some sense algebraically intractable, with no complete descriptive invariants available. Carlsson and de Silva [1] showed that persistence can be made to work over “non-monotone” parameters, in contrast to “monotone” parameters such as length scale; this is known as zigzag persistence. Bubenik and Scott [4] have described and studied persistence in terms of category theory.

**Measured view.** In becoming familiar with the literature on persistence, one quickly realises that the existing mathematical foundations are dependent on certain strong finiteness assumptions. For instance, one can do persistence on the sublevelsets of a function on a compact manifold, but it is usually assumed that the function be a Morse function. This ensures that the resulting persistent data is finite: each sublevelset has finite-dimensional homology, and there are only finitely many essentially distinct levels, separated by the critical points. In computational terms, this is a perfectly natural assumption (a computer can only handle finite data), but for some of the theoretical work this assumption is

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## **Table of Contents Topological Data Analysis And Machine Learning Theory**

1. Understanding the eBook Topological Data Analysis And Machine Learning Theory
  - The Rise of Digital Reading Topological Data Analysis And Machine Learning Theory
  - Advantages of eBooks Over Traditional Books
2. Identifying Topological Data Analysis And Machine Learning Theory
  - 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 Topological Data Analysis And Machine Learning Theory
  - User-Friendly Interface
4. Exploring eBook Recommendations from Topological Data Analysis And Machine Learning Theory

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

- Fact-Checking eBook Content of Topological Data Analysis And Machine Learning Theory
  - 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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