

Review

Multivariate Statistical Analysis for Water Quality Assessment: A Review of Research Published between 2001 and 2020

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Abstract: Research on water quality is a fundamental step in supporting the maintenance of environmental and human health. The elements involved in water quality analysis are multidimensional, because numerous characteristics can be measured simultaneously. This multidimensional character encourages researchers to statistically examine the data generated through multivariate statistical analysis (MSA). The objective of this review was to explore the research on water quality through MSA between the years 2001 and 2020, present in the Web of Science (WoS) database. Annual results, WoS subject categories, conventional journals, most cited publications, keywords, water sample types analyzed, country or territory where the study was conducted and most used multivariate statistical analyses were topics covered. The results demonstrate a considerable increase in research using MSA in water quality studies in the last twenty years, especially in developing countries. River, groundwater and lake were the most studied water sample types. In descending order, principal component analysis (PCA), hierarchical cluster analysis (HCA), factor analysis (FA) and discriminant analysis (DA) were the most used techniques. This review presents relevant information for researchers in choosing the most appropriate methods to analyze water quality data.

Keywords: multivariate analysis; water quality; monitoring; principal component analysis



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1. Introduction

The topic of water has received high visibility and attention on the global sustainability agenda. This is due to increasing pressure from factors such as economic development models, climate change, population growth and public health [1,2]. Sustainable development objective number 6 (SDG6) of the United Nations 2030 Agenda for Sustainable Development is entirely dedicated to water and, in addition to addressing major challenges of universal access to sanitation and water in desirable quantity and quality, presents issues related to water resources management [3].

The analysis, assessment and monitoring of water quality are important tools for water resource management, providing a comprehensive understanding of the state of water [4,5]. Although water quality data at the global level remain sparse, mainly due to the lack of monitoring in less developed countries, there has been a tendency for the generation of these data to increase, via studies that analyze water quality [1,6].

Water quality can be understood as a measure of the suitability of water in relation to natural quality, pollution effects or specific use based on physical, chemical and biological attributes [7]. This measure provides objective evidence that is needed in decision making in water resource management, in the use of water quality monitoring programs [8], in alerting people to ongoing and emerging problems (including chemical and microbial contamination, eutrophication, emerging contaminants, issues related to climate change, among others), in determining compliance with legal standards, in protecting the beneficial uses of water, in the assessment of environmental status, in temporal trends in water quality [9] and in the assessment of the effects on aquatic ecosystems [10].

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Table of Contents Multivariate Analysis Of Quality Multivariate Analysis Of Quality

1. Understanding the eBook Multivariate Analysis Of Quality Multivariate Analysis Of Quality
 - The Rise of Digital Reading Multivariate Analysis Of Quality Multivariate Analysis Of Quality
 - Advantages of eBooks Over Traditional Books
2. Identifying Multivariate Analysis Of Quality Multivariate Analysis Of Quality
 - 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 Multivariate Analysis Of Quality Multivariate Analysis Of Quality
 - User-Friendly Interface
4. Exploring eBook Recommendations from Multivariate Analysis Of Quality Multivariate Analysis Of Quality
 - Personalized Recommendations
 - Multivariate Analysis Of Quality Multivariate Analysis Of Quality User Reviews and Ratings
 - Multivariate Analysis Of Quality Multivariate Analysis Of Quality and Bestseller Lists
5. Accessing Multivariate Analysis Of Quality Multivariate Analysis Of Quality Free and Paid eBooks

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