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Ecosystem Services: A Systematic Literature Review and Future Dimension in Freshwater Ecosystems

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Abstract: Ecosystem services are part and parcel of human lives. It is of paramount importance to understand the interaction between these ecosystem services, as they are directly related to human life. In the modern era, quantification of ecosystem services (ES) is playing an important role in the proper understanding and efficient management of social-ecological systems. Even though a significant amount of literature is available to present on the topic, there is a need to build an adequate amount of knowledge repository. Hence, a systematic literature review method is used, in which research question and searching stages are defined. This review study is conducted on ecosystem services and remote-sensing-related keywords in the Scopus database. After a systematic analysis of the papers retrieved from the Elsevier, Scopus database, MDPL and open source, a total of 140 primary articles were categorized according to their relationship with other ecosystem services, land use, land cover, and planning management. Major issue findings and important aspects have been analyzed and reported in each category. With this analysis and developments in the existing literature, we have potential areas for future research. Findings pointed out that regional or local-level ecosystem services-related work is immersely important, and a hotspot of current research aiming to understand the variability and spatiotemporal dynamics in terrestrial and aquatic ecosystems.

Keywords: ecosystem services; provisioning ecosystem services; regulating ecosystem services; cultural ecosystem services; supporting ecosystem services

1. Introduction

The biophysical state of the ecosystem is affected by multiple elements and, simultaneously, by humans' ability to enjoy its services [1]. Furthermore, Anthropogenic and non-anthropogenic interventions can change the biochemical cycles and earth's energy equilibrium, in turn causing global warming, and future climate changes [2]. On the other hand, rapid urbanization degrades ecosystem services [1,3]. Gretchen, in his work, points out that the lifestyle of the people may be hampering the prosperity of ecological biodiversity at the expense of their descendants [4,5]. Talking about ecological biodiversity, the term ecosystem services is described by many authors as the process that helps to sustain human life, with the help of interaction between the natural ecosystem and the species [4,6]. Globally, human systems are supported by nature's contribution, i.e., ecosystem services, and [7,8] state that land use and land cover changes (LULC) induced by humans have increased over the last three decades, leading to changes from a natural setting to humanconquered land. Furthermore, according to Gómez-Baggethun & Barton [9] more than 50% of the world's inhabitants reside in urban areas and potentially receive benefits from the ecosystem services; the future projection of people living in urban areas is calculated to reach 66% by 2050. The main motive for this research is to find a way to conserve the existing ecosystem, with a background of arising global environmental issues.



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Table of Contents Literature Review In Neco System

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

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