

Editorial

# Smart Land Use Planning: New Theories, New Tools and New Practice

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Currently, the world has entered the fourth technological revolution era characterized by intelligence (the era of Industry 4.0). In the era of intelligence, how to leverage new technologies to drive the smart transformation of land use planning and achieve sustainable land utilization has become a critical issue. Presently, various measurement, photography, and remote sensing data collection and processing technologies are increasingly being integrated together with the aim of establishing more reliable and accurate geospatial reference data and related geodetic networks [1], providing important references for land use planning. With the development and improvement of technologies such as geographic information systems (GIS), remote sensing (RS), global positioning system (GPS), and artificial intelligence (AI), smart land use planning has gradually transitioned from theory to reality [2].

Smart land use planning is characterized by smart land management, refined planning, big data analysis, and intelligent monitoring. Its core lies in the widespread application of artificial intelligence algorithms such as machine learning (ML) and deep learning (DL), which generate large amounts of data to enhance the efficiency and level of land use planning. In addition, in recent decades, remote sensing sensors and related technologies have become increasingly complex and sophisticated [3]. They can provide a large amount of high-quality and high spatial resolution data, thus driving the smart development of land use planning. As an emerging form of land use planning based on big data simulation algorithms, smart land use planning represents the future direction of land use planning. In the future, land use planning will evolve towards greater precision and intelligence, further integrating technologies such as the Internet of Things (IoT), cloud computing (CC), and internet technology (IT) to form a diverse and interconnected smart planning decision-making management system.

Smart land use planning is currently in the process of transitioning from theory to practice. Therefore, there are still many discussions and analyses regarding the theories, tools, and practices of smart land use planning. However, the existing theories, tools, and practices are still anchored in the previous stages of land use planning and do not fully align with the emerging forms of smart land use planning that are maturing with the rapid development of artificial intelligence. Traditional methods used for land use planning, such as field surveys and participatory mapping, are time-consuming, expensive, and labor-intensive. Currently, with advancements in data collection techniques and increased computing power, it is possible to utilize big data algorithms for smart land use planning to improve the quality and efficiency of planning [4]. However, there is a lack of innovations and breakthroughs in the theories, tools, and practices of smart land use planning.

Consequently, there is still insufficient research into new theories, tools, and practices of smart land use planning, specifically those related to big data, artificial intelligence, and



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## **Table of Contents Land Use Planning Abstracts Volume 2**

1. Understanding the eBook Land Use Planning Abstracts Volume 2
  - The Rise of Digital Reading Land Use Planning Abstracts Volume 2
  - Advantages of eBooks Over Traditional Books
2. Identifying Land Use Planning Abstracts Volume 2
  - 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 Land Use Planning Abstracts Volume 2
  - User-Friendly Interface
4. Exploring eBook Recommendations from Land Use Planning Abstracts Volume 2
  - Personalized Recommendations
  - Land Use Planning Abstracts Volume 2 User Reviews and Ratings
  - Land Use Planning Abstracts Volume 2 and Bestseller Lists
5. Accessing Land Use Planning Abstracts Volume 2 Free and Paid eBooks
  - Land Use Planning Abstracts Volume 2 Public Domain eBooks
  - Land Use Planning Abstracts Volume 2 eBook Subscription Services
  - Land Use Planning Abstracts Volume 2 Budget-Friendly Options
6. Navigating Land Use Planning Abstracts Volume 2 eBook Formats

- ePub, PDF, MOBI, and More
  - Land Use Planning Abstracts Volume 2 Compatibility with Devices
  - Land Use Planning Abstracts Volume 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Land Use Planning Abstracts Volume 2
    - Highlighting and Note-Taking Land Use Planning Abstracts Volume 2
    - Interactive Elements Land Use Planning Abstracts Volume 2
  8. Staying Engaged with Land Use Planning Abstracts Volume 2
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Land Use Planning Abstracts Volume 2
  9. Balancing eBooks and Physical Books Land Use Planning Abstracts Volume 2
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Land Use Planning Abstracts Volume 2
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Land Use Planning Abstracts Volume 2
    - Setting Reading Goals Land Use Planning Abstracts Volume 2
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Land Use Planning Abstracts Volume 2
    - Fact-Checking eBook Content of Land Use Planning Abstracts Volume 2
    - 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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