

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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