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Analysis and visualization of urban spatial data

(The integration of remote sensing and GIS technology for urban planning and sustainability)

Abstract:

In recent years, urban areas have dramatically increased. Hence, there is a significant interest for improving efficiency of urban planning in most developed countries. The wide world, is experiencing a rapid urbanization rate. Which urban growth contributes many advantages in terms of economics; if is uncontrolled, it would produce negative consequences to the physical, social and natural environment. As a matter of fact, it requires an analysis process and visualization from various perspectives in order to handle, manage, manipulate, and supervise the enormous flux of spatial data. In order to achieve that, the integration of remote sensing and GIS technology in improving urban planning has become the most reliable approach. It has provided much clearer understanding of real planning problems as well as prescriptive planning scenarios to enhance the quality of urban planning and Land management. It offers a solution to the urban problems and decision-making, to obtain a sustainable city.

Keywords: Urban, remote sensing, GIS technology, spatial data, urban planning.