
Multi-media GIS: Analysis and Visualization of Spatio-Temporal and Multimedia Geographic Information

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Abstract

The advancement of computer technology enables the integration of GIS and multimedia technologies, called multimedia GIS, that allows to incorporate not only spatio-temporal geographic information in image/vector format, but also multimedia geographic information in descriptive text, scanned ground photographs, graphics, digital sound and video. This paper presents the concept and components of a multimedia GIS, and the benefits of using multimedia GIS. Two case studies of multimedia GIS applications for the integration, analysis and visualization of the spatio-temporal GIS database and multimedia information are demonstrated.
