

Developing a 3D GIS Platform with Ground LiDar Data

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Abstract

Typical GIS systems provide various 2D images including aerial photographs, land registration maps, topographic maps, and others. In these days, many local governments in Korea have 3D LiDar (light detection and ranging) scan data for famous architectural structures. These LiDar data contains all real-world information for existing cultural properties and facilities. They show all the details of out-door and in-door properties, to re-construct the realistic high-quality in-door and out-door scenes. Our work aims to inexpensive platforms, to provide integrated display of GIS and LiDar data, based on the middle-level commercial PC's.

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