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Distribution of temporal geospatial information using Cyber Japan Web System

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Temporal geospatial information dataset of Tsukuba City was constructed. Temporal range is about 10 years from 2000 to 2009; the area is 15 square kilometers along Tsukuba Express railroad. Data contents are transportation (road and railroad), land use, topography (Digital Elevation Model), buildings and drainage. The authors proposed two types of temporal data specification, one is occurrence and disappearance type data such as road, buildings and so on, another is coverage type data such as land use and DEM. This dataset is not only image data described for background map but also analytical data such as polygon type or mesh tape.

The authors also developed the system which extracts optional time serial geospatial data from temporal geospatial information dataset, and portraits image data such as topographical map published by GSI. As the users select optional time, the system constructs GIS data to select all objects which exist in selected time, and describes topographical maps. And the authors developed the system which distributes the described olden topographical maps for base map using Cyber Japan Web System. The users can distribute various contents data which overlay olden topographical maps.

Keywords: temporal geospatial information, Cyber Japan Web System, Tsukuba City