

## Software development of Viewer for Stereoscopic Topographic Map

SASAKI, Tatsuya<sup>1\*</sup>, YOSHIKANE, Masanori<sup>1</sup>, SHIMOYAMA, Nao<sup>1</sup>, SHIRASAWA, Michio<sup>2</sup>, YOKOYAMA, Ryuzo<sup>2</sup>, IMAIZUMI, Toshifumi<sup>3</sup>

<sup>1</sup>OYO corporation, Database Business Department, <sup>2</sup>Yokoyama Geo-Spatial Information Lab., <sup>3</sup>Graduated School of Science, Tohoku University

This paper shows the new software development of stereoscopic topographic map browser. Anaglyphic raster data of stereoscopic topographic map of Japan's land area generated from 10m-mesh DEM by the Geospatial Information Authority of Japan were used in this development.

This viewer was developed based on GIS engine MAGIS (developed by OYO Corp.). MAGIS is a general-purpose GIS engine which has been widely used in Japanese local governments as a business support system in public domain management.

The new viewer provides seamless and fast mapping, as well as smooth zooming of stereoscopic topographic map data of Japan's whole land area. This usability can benefit a wide range of map users with its user-friendly interface.

The parallax of stereoscopic topographic map data has been pre-optimized for this viewer. The new browser will be released to all the map users.

Keywords: Digital stereoscopic topographic map, GIS, Software Developmnt