

Multimedia-VR Exploitation and Delivery of Value Added Data

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Abstract

The exploitation of Earth Observation data and in particular SAR requires the development of operational tools to analyse the images and deliver to users the information extracted. To this end, WEU-SC is developing an environment that allows to take advantage of the most advanced computer graphics techniques and deliver value added multimedia-VR data to PC users.

The integration of data sources from different sensors and their 3D representation provide to both photointerpreters and users a better understanding of the situation to be analysed. Now, standard video and virtual reality formats permit an easy exploitation of this technology.

A Digital Elevation Model over a large high relief area with diverse land coverage has been derived by advanced and robust Interferometric SAR (InSAR) techniques. This challenging example illustrates some operational applications of ERS InSAR. In addition, the complementarity of InSAR products with other remote sensing data demonstrates the benefits of InSAR techniques.

We will present a PC based system which integrates data from different sources and topographic models generated by satellite SAR Interferometry. Interactive navigation and video will be used to illustrate some critical operational concepts.