

Development of ASTER Hot Spot Detection System using International Standards

YAMAMOTO, Naotaka^{1*}, NAKAMURA, Ryosuke¹, TSUCHIDA, Satoshi¹, IWAO, Koki¹, URAI, Minoru¹

¹AIST

In this presentation, we propose a new design of ground data management system for earth observing satellite data archive, in order to achieve an alert system development for volcanic activities, forest fire, environment monitoring, etc. There are some major activities, such as MODIS Rapid Response. However, these systems are usually maintained by organizations who have a ground data management system. Therefore, it is hard to construct such a rapid monitoring system by research groups outside of a ground data management system. In order to solve this inconvenience, we propose a design of ground data management system using international standards such as GeoRSS, WMS, WCS and WPS. In addition, we present an ASTER hot spot detection system using international standards as an example implementation.

Keywords: ASTER, GeoRSS, OGC