



Web Processing Service for assisted land cover classification

Jérôme Gasperi (1), Charles Peyrega (2), Sébastien Dinot (2), Quentin Boileau (3), Alexis Manin (3), and Vincent Heurteaux (3)

(1) CNES, Toulouse, France (jerome.gasperi@cnes.fr), (2) CS Systèmes d'Information, Toulouse, France, (3) Geomatys, Montpellier, France

The Orfeo Toolbox (OTB - <http://www.orfeo-toolbox.org/>) is an Open Source Remote Sensing Image Processing software library developed by CNES. The aim of the toolbox is to gather a large number of state of the art algorithms for building processing chains for satellite images. Using the constellation server (<http://www.constellation-sdi.org/>), we exposed the main OTB processing chains as Web Processing Services (WPS). The WPS provides rules for standardizing inputs and outputs for invoking geospatial processing services. These services are managed from a web browser using the mapshup web client (<http://mapshup.info>). mapshup supports both synchronous and asynchronous processes and offers direct visualisation of results. The whole system provides user a complete and comprehensive image processing chain to produce land cover classification from satellite orthoimagery.