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GiSHEO –Grid-based Services for Education in Earth Observation

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

GisHEO: On Demand Grid Services for Higher Education and Training in Earth Observation, funded through the PECS Programme of European Space Agency, Contract No. 98061, 2008-2010, 4 partners

Special requirements other than the set up mentioned in the CfA text.

Abstract

Following the recent interest in Grid-based processing and storage in Earth Observation, the development of a platform for grid services for higher education and training in Earth observation, named GiSHEO, has started at the begin of 2008. It aims to set-up a reliable resource for knowledge acquisition using existing distributed information on Earth observation and Grid technology. The platform has a layered architecture: user level for authentication and authorization, service level for service registration, searching and composition, processing level, and data levels referring the application database and datasets database. Application database offers a variety of processing applications that are used to create different training lessons starting from remote sensing data. The platform implements also a custom distributed data storage and distribution system able to accommodate large data instances across various Grid nodes.

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