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Web-based collaborative interpretation of Earth and Space Geophysical data

A.Frigeri(1), C.Federico(1)

(1) Dipartimento di Scienze della Terra, Università degli Studi di Perugia (afrigeri@unipg.it)

For the past few years the World Wide Web has been changing its identity from the place where consult or publish static websites to a place that holds both the data and the relative services to access to them interactively. The use of common protocols and open data formats improve the communication among the people, and among the services. Dealing with scientific data coming from geophysical instruments often means to manage large volumes of information. The raw, unprocessed data pass through a processing pipeline that produces higher level data products that need to be interpreted. While the processing of raw data is a specific and computing-intensive task, commonly made in a specific location by a specialized team of researchers, the process of interpretation involves the work of several scientists from different disciplines, often working in different research intitutions. A web-based collaborative environment allow every scientist to autonomously interpret the data and highlight features by applying specific keywords, or tags, to the data themselves. All the contributed information together with statistics on access to the data, are used to create a new knowledge of the data, summarizing in a common frame the interpretations made by the group of scientists. An application scenario is here presented, involving examples of collaborative interpretation of geophysical data (from a Ground Penetrating Radar) and remote sensed planetary data (from camera and orbiting subsurface radar sounder).