A Web-application of Dynamic Time-Scale Previewer and its Application for Historical Geoscience Studies

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The NICT Science Cloud is one of the science clouds proposed for development of sciences. A variety of science data are collected and stored in the science cloud to be analyzed interdisciplinary. After the Internet is widely used, new concept and information technology haves shown up; semantic web and linked open data (LOD). These technologies enable information on the Internet machine readable. In many science fields, it is pointed out that the semantic web will play an important role for the interdisciplinary research works. However, there have been few ideas to be ever proposed as a methodology or roadmap to the interdisciplinary science using semantic web. Herein we present a concept of professional knowledge and academic knowledge following collective knowledge proposed as a Web 2.0. Based on the concept, we design a Web-application for interdisciplinary science. The application (named STARS touch) provides users with an environment of dynamic and light preview of any types of time-dependent data. In the demonstration, we show an example of simultaneous preview of both scientific data (satellite observation data) and social data (newspaper information).

Keywords: STARS touch, NICT Science Cloud, Web Application