An exploration with XML for knowledge management system in earth and planetary sciences

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In order to provide an appropriate approach for the knowledge management system of earth and planetary sciences, we are reviewing techniques which are presently proposed for sharing knowledge in computers and networks among various users.

By composing simple examples with the use of XML, DTD, XML Schema, RELAX, DOM, SAX, XSLT, SVG, a conceptual introduction is presented.

It is confirmed that RELAX seems, at the present stage, the most promising schema-language for formulating data format structured by XML.

As a specific example, by the use of chemical equilibrium calculation, it is demonstrated that a language format such as XSLT and SVG is feasible for linkage between a numerical program and XML structured I/O data.