

Lunar and Planetary Informatics System Based on Geographical Information

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Abstract

Geographical Information System (GIS) is now becoming an essential platform as digital maps globally. In lunar and planetary exploration field, the application of GIS technology to display maps and data are becoming important part of data handling, browsing and sharing, as these system can process large amount of data efficiently and network bandwidth and computer processing power is increasing. Particularly, web-based GIS, called Web-GIS, is one of the most important infrastructure also in lunar and planetary exploration field as users can easily access maps or other data only by web browsers and data suppliers also can easily construct their system based on web servers. Now we develop the system that can share, browse and search data obtained by past lunar explorations. This system will grow up through the coalition of other system such as search system and addition of security control function. These extension will make the system not only just a map displaying capability but also the platform which support the researchers' activity that can find new knowledge from the exploration data.