

Development of e-Infrastructure for permanent access to scientific resources: creation of Spectral databank of Remote Sensing data

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Abstract

When studying natural and artificial objects using satellite technology spectral data containing information on the distribution of reflecting / emitting properties of physical objects and materials by wavelength are of great importance. It should be noted that the prompt receipt of necessary spectral data from the above mentioned sources is usually the problem. This paper describes an approach to the development of the Bank of the spectral data that has advanced features that enable to realize not only the inquiry and search procedure, but rather a wide range of computational and applied procedures related to the spectral data and their attributes. Based on a systematic analysis of the subject area and the relational database model, a scheme, implemented by means of MS Access. A simple scheme of integration the database in the e-Infrastructure of permanent access to scientific resources of remote sense data is offered.

Key words: Digital Libraries, Satellite technologies, Spectral databank, e-Infrastructure for Permanent access, Remote Sensing data.

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