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Retrieval Support in the Field of Automatics and Remote Control



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The paper deals with the systematization of information in the database "Automatics and Remote Control", generated by the All-Russian Institute for Scientific and Technical Information (VINITI). Documents were analyzed according to the type of publication sources, by countries, languages and subjects.

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The database for VINITI's abstract journal "Automatics and Computers" consists of a bibliography + abstracts + keywords and is organized according to subjects. It has been in existence since 1976.

The input documents forming the database can be analyzed according to the type of publication sources (journals, conferences, transactions, collected works, books, patents, etc.), by countries and languages of the publications.

We analyzed the retrospective collection (1981-1992), which consists of some 80.000 documents from 41 countries. Most of the publications came from the former Soviet Union - 31.2%, USA - 19.7%, Japan - 16.0% and Germany - 13.2%, this holds for those countries with more than 10.000 documents.

The distribution of publications according to the language of the publication is as follows: in Russian - 29%, in English - 33%, in German - 15.6%, in Japanese - 10.1%.

As regards the types of publication sources, one should note that journal articles account for 39.4% of the publications, while a comparable quantity, 46.7% is made up by patents.

In the database each document is provided with a subject key, corresponding to the Rubricator, which has the following structure:

- automatics elements, units, devices;
- control instrumentation;
- automatic and remote control systems;
- computer design, computer integrated production;
- complex automation in scientific research, industry, transport, communications, medicine, agriculture, space technology.

Fig.3 of the original paper shows the distribution of documents 1982-1992, according to subjects. It is interesting to observe that there is a reduction of publications dealing with simple units and devices whereas publications on microprocessor-based devices or computer-assisted systems are increasing.