

Databases - Tools for information in scientific research

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Abstract: *If it is to talk about the information source in 21-th century, it is definitely the field of virtual information environment, be it website, library, publication, study or article. Nowadays, the information is being created, developed and disseminated in real time, online. The documentation and information are of the greatest importance in order to acquire competencies in scientific research.*

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1. Web – means of information

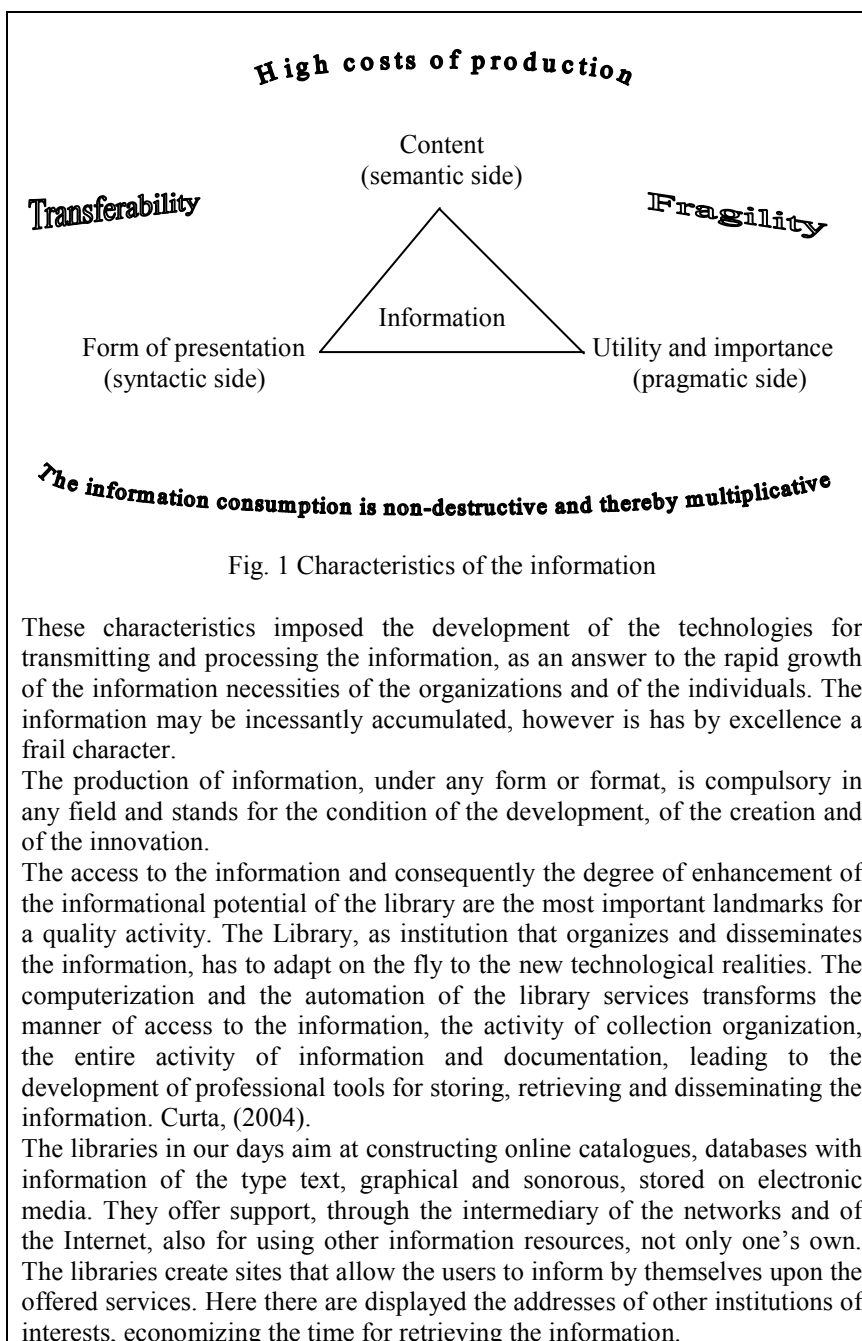
Nowadays, Web is no longer an entertainment for the computer experts. It has gradually turned into an increasingly common means of information, which tends to replace the written media, the radio and even the television.

On the other hand, Web very much suits the informational resources, such as dictionaries, libraries, data banks, different information out of the most variegated fields and so forth. Practically, currently a Website cannot resist unless it offers a certain quantity of information useful for the visitor.

Information means knowledge, power, profit for those who know to retrieve it and to efficiently use it in business, research, education. Information is the basis of the knowledge process, the basis of culture, the force of action of contemporary society.

Information as resources, „being generated through processes of knowledge and innovation, are potentially unlimited, they cumulatively and progressively develop, they have an extremely quick rate of progress; they multiply through dissemination”. Tirziman (2000)

Fig. 1 shows the main characteristics of the information: transferability, high costs of production, fragility.



The libraries of the days to come will be complex info-documentary structures, which will keep on developing their collections of books and multimedia documents, but which will increasingly appeal to digital resources and to scientific databases that offer to the users full-text documents, to the purpose of information and documentation. Helerea (2008)

In this paper there is analyzed the politics and the management for the access to information at Transilvania University of Braşov, in which the Library of the University plays a key role: - acquisition, organization, tracking, dissemination and enhancement of the information offered by the databases.

2. Databases offered by *Transilvania University of Braşov*

At *Transilvania University of Braşov*, the acquisition policy is declared and approved by the Senate of the University. *Transilvania University of Braşov* is an institution of higher education and research. The databases support both the didactic activity and the research activity.

There are several paths for acquiring databases:

- through direct acquisition (buying)
- through partnerships with agencies, institutions, cooperation projects.

The databases subscribed by *Transilvania University of Braşov* are synthetically presented in Table 1.

Table 1. Databases subscribed by *Transilvania University of Braşov*

<p>SpringerLink http://www.springerlink.com</p>	<p>SpringerLink is one of the widest used electronic resources of scientific documentation in our country. It comprises more than 1600 specialized magazines, edited by Springer-Verlag, Kluwer Academic Publishers, Urban and Vogel, Steinkopff and Birkhäuser. It comprises online magazines edited by Springer Verlag, Kluwer Academic Publishers, Urban and Vogel, Steinkopff and Birkhäuser. It has 1250 titles of fulltext magazines and about 2500 books.</p>
<p>Oxford Journals http://www.oxfordjournals.org</p>	<p>Division Oxford Journals is part of the greatest university publishing houses throughout the world, a publishing house motivated by the quality of its publishing. It contains magazines, summing up <i>more than 194 titles</i> (among whom 110 magazines have ISI factor of impact).</p>

	<p>Its collections: <i>Law, Social Sciences, Humanities, Medicine, Life Sciences, Mathematics & Physical Science</i>, include many of the reference journals in the respective fields, in online format.</p> <p>It exceeds 180 titles, realized in collaboration with far-reaching universities and research institutes. It includes noteworthy magazines in the fields of the natural sciences, of mathematics, physics, humanistic and social sciences, law, medicine etc.</p>
<p>MathSciNet http://www.ams.org/mathscinet/</p>	<p>MathSciNet offers rapid and easy access to peer-reviews, abstracts and bibliographical information for the mathematical sciences. More than 100.000 new elements are added every year, most of them classified according to the subject. MathSciNet contains more than 2 million articles and more than 1 million direct connections to original articles.</p>
<p>Forest Science Data Base http://www.forestscience.info</p>	<p>Forest Science Database is an important database on the worldwide level, for the researches in the field of forest engineering, forest exploitation and wood industry.</p> <p>Offered by the specialists from CABI, this one currently contains more than 810.000 abstracts and quotations with 30.000 records added every year.</p>
<p>EBSCO Host</p>	<p>Academic Search Premier http://www.ebsco.com/home/</p> <p>Elaborated especially for academic institutions. It is the most comprehensive academic multidisciplinary DB, it contains full text articles from more than 4650 scientific publications. Beside full text articles, it offers indices and abstracts for almost</p>

EBSCO Host	Academic Search Premier http://www.ebsco.com/home/	indices and abstracts for almost 8200 magazines from the collection, from every academic study field, inclusively: education, informatics, engineering, physics, chemistry, linguistics, arts and literature, medical sciences, ethnographical studies etc.
	MEDLINE with Full Text	The National Library of Medicine from the United States creates it and within it there may be realized the search of the bibliographical notes and of the abstracts from 4800 magazines.

In tables 2 and 3 there are presented the main characteristics of the databases acquired through collaborations / partnerships projects.

Table 2. Databases offered by INID

Thomson ISI http://isiknowledge.com	Thomson ISI is one of the most important sources of scientific documentation on the worldwide level. The National Institute of Information and Documentation - INID as well as Prior and Books offers the following bibliometric and bibliographical databases Thomson ISI: Web of Science – offers access to the abstracts of the articles of more than 9300 important magazines, ISI quoted, from 1990 up to the present, the majority with impact index. Journal Citation Reports 2007-2008 – offers quantifiable statistics data that allow the evaluation of the impact of the magazines within the scientific community. ISI Proceedings 2007-2008 – Weekly updated, ISI Proceedings offers access to bibliographical information and to the abstracts of the articles presented at
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	<p>various international conferences, symposia, seminars, colloquia, workshops, conventions in a wide range of disciplines, from anthropology to zoology.</p> <p>Derwent Innovations Index 2008 - comprises data upon patent specifications, registered in 41 countries, including Romania</p>
<p>Science Direct http://www.sciencedirect.com</p>	<p>The online platform of scientific magazines with integral text for research Science Direct offers direct access to the integral text of the scientific magazines Elsevier of the year 2004 up to the current number. It covers all scientific areas.</p>
<p>Ovid - Lippincott Williams & Wilkins High Impact Collection http://ovidsp.ovid.com/autologin.html</p>	<p>The medical research platform Ovid - Lippincott Williams & Wilkins High Impact Collection offers a unique collection of 50 noteworthy medical magazines, the essential source of documentaries in journals with ISI index of high impact.</p>

Table 3. Databases offered by CNCSIS:

<p>Scopus http://www.scopus.com</p>	<p>Bibliographical DB with access to more than 16.000 magazines, with impact factor, from more than 4000 publishing houses.</p>
<p>EV-2 Compendex http://www.engineeringvillage.org</p>	<p>Bibliographical DB defining for the literature in the field of engineering. It contains more than 9 million records, dated since 1969 up to the present and covers 175 disciplines in engineering.</p>
<p>EV-2 Inspec http://www.engineeringvillage.org</p>	<p>Bibliographical DB with global coverage in ensuring the scientific and technical literature in the field of physics, electrical engineering, electronics and informatics.</p>
<p>EMBASE http://www.embase.com</p>	<p>Medical bibliographical database comprising MEDLINE and other few thousands of indexed magazines. It is the intelligent portal in the fields of biomedicine and pharmacology.</p>
<p>PIO http://pio.chadwyck.co.uk</p>	<p>It is an electronic index containing millions of articles electronically</p>

	published in the field of the arts, of the humanistic sciences and of the social sciences across a period of more than 300 years.
LION (Literature online) http://lion.chadwyck.co.uk	It contains more than 300 000 full-text works of English poetry, prose and drama, together with the online criticism and reference bookshop; <i>Literature Online</i> is the greatest DB for cross search throughout the world in the field of literature and literary criticism.
MLA http://collections.chadwyck.co.uk	It is a classified list with index of the subjects for school books and articles about modern languages, folklore and linguistics that has been compiled by the Association for Modern Languages in America ever since 1926. The electronic version likewise includes the possibility to list the entire bibliography and it momentarily contains more than 2 millions entries. Moreover, <i>MLA Directory of Periodicals</i> offers complete information about more than 7100 periodical publications and series of books.

Following the statistics realized for the year 2008, there was noted a more frequent accessing of the database Oxford Journal than of the database Springer link and a users' preference for the pdf. Format

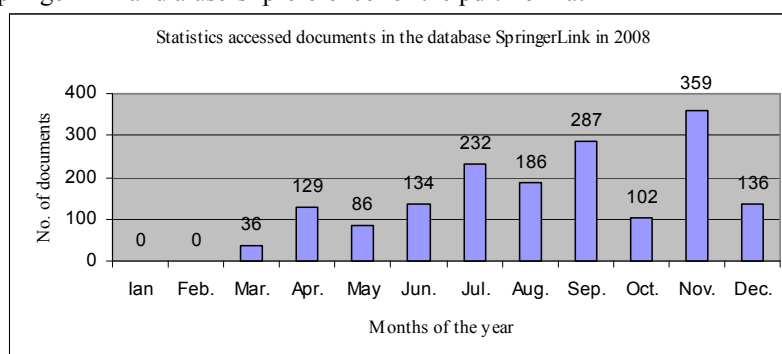


Fig. 2. Access to SpringerLink in the year 2008.

Total accessed documents - 1688 among whom: **1001** in format .htm and **687** in format .pdf.

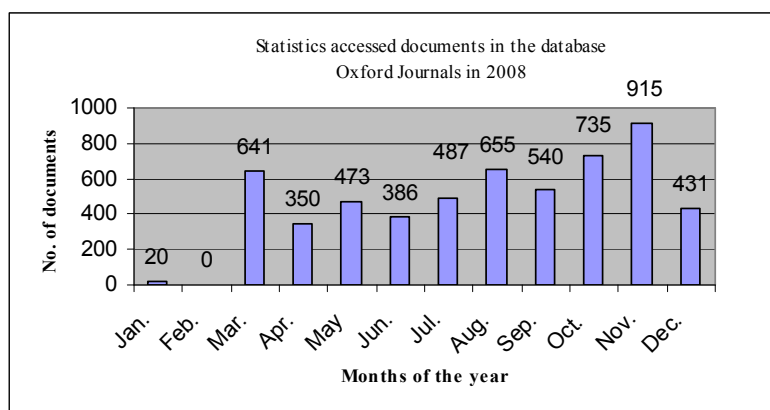


Fig. 3. Access to Oxford Journals in 2008.

Total accessed documents - **5633** among whom: **84** in format .htm and **5549** in format .pdf.

These databases were also presented to the students from *Transilvania* University of Braşov. In the framework of the applications, there were submitted as sources of information and documentation the databases SpringerLink, Oxford Journals, Academic Search Premier (EBSCOHost), and Thomson ISI.

Conclusion

The Library of *Transilvania* University of Braşov is an essential factor in communicating information. The librarian is the mediator between the information sources and the users, plays an active part in the library, finds out the users' information needs, teaches them how to use the search instruments and the electronic equipment, enhances the library resources as well as the online ones, searches for information, offers direct and personalized assistance to the user.

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