



The “Lucian Blaga” University of Sibiu, Romania  
The LBUS Library

and

The Library of the Romanian Academy

University of Bucharest - DigInfo Centre

Biblioteca Academiei Române



CENTRUL DE CERCETARE  
PENTRU  
INFORMAȚIA DIGITALĂ

CERCETARE TEORETICĂ ȘI APLICATĂ

**The SECOND INTERNATIONAL CONFERENCE in ROMANIA**

on

**Information Science and Information Literacy**

**CONFERENCE ABSTRACTS**

April 14<sup>th</sup> - 15<sup>th</sup> 2011, Sibiu, Romania

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Honorary President of the conference  
Prof.dr. **Constantin OPREAN**  
Rector of the "Lucian Blaga" University of Sibiu

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## **Foreword**

*The Second International Conference in Romania on Information Science and Information Literacy, Sibiu 2011, stands for a major event that gives the specialists in Librarianship and Information Science the great opportunity to meet in a friendly and proficient atmosphere.*

*The Conference is organized by the:  
**Central Library of the „Lucian Blaga” University of Sibiu together with  
The Library of the Romanian Academy and  
University of Bucharest - DigInfo Centre.***

### **Guests :**

Prof.dr. **Werner SCHAAL** - President of the Lucian Blaga University of Sibiu  
Prof.dr. **Doina BANCIU**, ICI-National Institute for Research and Development in informatics, Bucharest, Romania  
Acad. Prof. dr. **Florin FILIP**, Romanian Academy, Bucharest, Romania  
Dr. **Ralf BRUGBAUER** - University Library of Bayreuth (Bavaria), Germany  
**Manuella BIDAUD** – Documentaliste AFPE -GIRFAS Bretagne – Centre Emmanuel Mounier Bruz Cedex, France, <http://www.afpe.org>

## TOPICS AND FOCUS

The main goal of this conference is to present and discuss the new trends in the following areas:

### Information literacy

- *Modern approach in information literacy*
- *Changes of reading and writing in information literacy age*
- *Ethical use of information and plagiarism*
- *Scientometrics*

### Education

- *Teaching information literacy and*
- *Developing the skills of the information literacy practitioner*
- *Lifelong learning and e-learning based on information literacy*
- *Reviewing the fundamentals of education and curriculum redesign*

### Digital libraries

- *Libraries in digital age*
- *Quality evaluation of digital and classical libraries*
- *Data storage and databases*
- *Interconnection protocols for digital libraries*

### Information science and technologies

- *Information theory*
- *Information retrieval*
- *Measuring the performance of document classification*
- *Data mining strategies for digital libraries*
- *Hypermedia in digital libraries*
- *Image processing for digital libraries*
- *Media conversion and digitization tools*
- *Interfaces: design and ergonomics*
- *Knowledge management.*

## Scientific committee :

- Prof.dr. **Constantin OPREAN**, *Rector of the "Lucian Blaga" University of Sibiu, Romania*
- Acad. Prof. Dr. **Florin FILIP**, *Romanian Academy Library, Bucharest, Romania*
- Prof.dr. **Doina BANCIU**, *ICI-National Institute for Research and Development in Informatics, Bucharest, Romania*
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- Prof.dr. **Ioana MOISIL**, "*Lucian Blaga*" University of Sibiu, Computer Science and Automatic Control Department, Romania
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- Prof.dr. **Angela REPANOVICI**, "*Transylvania*" University of Brașov, România
- Conf.dr. **Elena TÎRZIMAN**, National Library, Bucharest, România
- Prof.dr. **Daniel VOLOVICI**, "*Lucian Blaga*" University of Sibiu, Computer Science and Automatic Control Department, Romania
- Dr. **Rodica VOLOVICI**, Library of the "*Lucian Blaga*" University, Sibiu

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- **Ioan-Irinel VIȘA**, IT coordinator, Library of the LBUS
- Conf.dr. **Eva-Nicoleta BURDUȘEL**, "*Lucian Blaga*" University of Sibiu, Letter and Arts Faculty, Romania
- **Elena MĂRGINEAN**, Library of the LBUS
- **Mihaela MANOLESCU**, Library of the LBUS
- **Radu PAȘTIU**, IT staff, Library of the LBUS.

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## Section I : INFORMATION LITERACY

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### **Different tasks libraries have to perform in universities and scientific community. A short view on activities of german libraries**

**Ralf BRUGBAUER**

Universitätsbibliothek Bayreuth (Bavaria), Germany

From the Federal Republic of Germany, Ralf Brugbauer, Executive Director of the University Library Bayreuth (Bavaria), Honorary Senator of the Lucian Blaga University and member of the Board for Information Management of the German Research Foundation (DFG) will send a greeting to organizers and guests of the *Second International Conference on Information Science and Information Literacy in ROMANIA*. He will give a short view on different tasks libraries perform in research infrastructure and education, in publication procedures and processing scientific (research-) data. He will throw a glance at the activities of the German libraries in this areas of work.

### **Changes in reading: some psychological aspects of Reading 2.0**

**Adam SOFRONIJEVIĆ, Dejana Kavaja STANIŠIĆ**

University of Belgrade, University library "Svetozar Marković"

The book as a paradigm for the content that is passively presented to the consumer and reading as a paradigm for the intimate experience and individual cogitation of that content are changing, mostly because of technological and social innovations known as the Web 2.0. Emerging new quality in reading is described in the paper via Reading 2.0 concept. This concept is in turn contrasted with the concept of a Solitary reader that focuses on some aspects of the reading process as perceived in the past.

In this context some psychological aspects of Reading 2.0 are discussed in detail. Building on available research in text structure importance for cognitive processes during comprehension of scientific texts, paper discusses the role of interactivity and collaboration in changing readers' misconceptions. Various aspects of collaboration and interactivity are compared in regards to two different text structures in order to develop plausible scenarios for testing

changes in readers' erroneous prior knowledge. Some examples taken from discussions originating in online communities of Serbia are presented in regards to defined scenarios. Differences in readers' reactions that arise from certain types of emotional investment in particular kind of misconceptions are discussed on basis of examples presented. Scenarios of librarians' participation in the process of changing readers' erroneous prior knowledge are discussed with emphasis on possibilities for collaboration and interactivity fostering and effects of such actions.

Paper advocates further research in this area by describing benefits that might arise from better understanding of discussed phenomena and by providing certain conclusions on research directions and possibilities.

### **Research Processes and researcher education. How can academic libraries contribute?**

**Gunnstein AKSELBERG,**  
University of Bergen, Norway

Most academic libraries today are involved in transformation processes, especially since digital archives and digital services for customers are continually prioritised. These libraries have also become research libraries as young researchers increasingly use the library facilities and employ the library itself as workplace to a greater extent than was previously the case. Librarians are also increasingly involved in research related activities.

I will explore the manner in which the three cycles of the Bologna process create a great need for research education at all three levels, i.e. postgraduate, graduate and undergraduate levels. I will partly focus on PhD students' situation. It is important that the academic libraries continue to improve the quality of access to and use of their collections in order for the educational benefits for young researchers to be optimised. Open Access is, among other things, of great importance in this context. This reorganisation must involve close cooperation between faculties, scientific communities and supervisors. I will include some examples of the restructuring that has taken place at the University of Bergen Library, Norway.

**Keywords:** Research; Students; Learning; University libraries; Librarians; Faculties

## **Librarian and User in a Digital Environment: what has actually noy changed?**

**Milica STEVANOVIĆ, Vesna CRNOGORAC**

Public Library of Kruševac Serbia, Serbian Library Association

The revolutionary changes that have come with the new information and communication technologies have also encompassed a whole historical paradigm based on the book and library. The current access to information from any place and at any time has put an end to the librarycentric world and replaced it with web culture.

The changes have affected the whole information universe, ranging from the very concept of the library, which is not just a physical place any more, to the nature of information, the way of its organization, storing and spreading, to the users who have turned from passive recipients into active participants and creators of different contents in the Web 2.0 environment.

All these changes have also brought about discussions on the sense and future of the libraries. Have libraries become obsolete institutions that will only exist as monuments of culture, museums of culture, and are librarians inefficient and obsolete “browsers” in the situation when, owing to Google and other powerful Internet services, “anyone can be a librarian”? Are “Google generations” so much superior when it comes to information that any library service would become needless or seem boring and slow?

On the basis of the above-mentioned questions and problematizing the deep-rooted non-critical stands on the concept and importance of information as such, this paper deals with the facts in intellectual, social and psychological sphere which remain permanent and unchanged despite all the technological novelties. The need for a warm, friendly and real environment, the necessity to apply graduality, individualization and adjustment to age as basic pedagogical principles are just some of them.

The conclusion of the paper suggests the need for establishing a reasonable harmony between a brave innovation and traditional approach to organizing the library systems which also implies a work with the users.

**Keywords:** Librarian in digital age, User in digital age, Hybrid libraries

## **The Importance of Teaching Efficacy for Information Literacy Instructors**

**Prof. Dr. Serap KURBANOĞLU, Prof. Dr. Buket AKKOYUNLU,**  
Hacettepe University, Turkey

Today there is a growing and shared recognition that librarians must be actively engaged in information literacy instruction. This century is marked as the most challenging time ever to be an instruction librarian. The body of information that a good instruction librarian must learn and apply has never been more plentiful. Today IL instructors must have a wide variety of knowledge and skills in their repertoire. They must have a thorough understanding of what they are teaching (domain knowledge & skills). They must also know how to teach and they must be aware of individual differences in the way people learn (pedagogical knowledge and skills). Furthermore, instruction librarians must feel confident and competent in using these knowledge and skills (information literacy and pedagogy) in order to employ them effectively.

Teaching efficacy is defined as teachers' belief in their ability to affect student performance and achievement, and has a strong relationship with teaching effectiveness. Teaching efficacy, as a motivational construct, affects; the amount of effort a teacher will expend in teaching situation; persistence shown in the face of obstacles, such as a student in a failure situation; and resilience shown in the face of adverse situations.

Teachers' sense of teaching efficacy may influence several significant educational variables, such as student achievement, student motivation, students' own sense of efficacy, teacher's teaching behaviours, teachers' enthusiasm, teachers' commitment, teachers' attitude toward innovation, and teachers' classroom management strategies.

Teaching efficacy is believed to be one of the most significant social-psychological factors influencing teachers' work. No other teacher characteristic has demonstrated such a consistent relationship to student achievement. Teaching efficacy is subject specific; a teacher may have a high level of personal efficaciousness in the science domain (disciplinary efficacy), yet feel inefficacious in pedagogical issues (instructional efficacy) .

In this paper, findings of a research which was conducted on 66 IL instructors from university libraries in Turkey will be presented. The level and strength of the instructors' teaching efficacy beliefs (both disciplinary efficacy and instructional efficacy) will be explored.

## **Information Management for Knowledge Creation, Information Literacy for PHD Students**

**Prof.dr.eng. Angela REPANOVICI,**  
Transilvania University of Braşov, Romania

This article is dedicated to develop information literacy courses for PhD students. One survey was developed to doctoral school at Transilvania University of Brasov. It was focused on information literacy and needs of PhD students, current practices and strategies on: Finding resources for your literature review and beyond, "Copy right, not copycat" - Good academic practice when writing your thesis, Keeping your research up-to-date, Getting noticed: The databases that help you choose where to publish, Citation searching, Increasing your productivity by making the most of web 2.0 tools, Measuring and Improving your research impact with bibliometrics. It will be present survey results and recommendations.

**Keywords:** information literacy, PhD candidates, citations, bibliometric, copyright.

### **What we offer and what we expect from students on Information Literacy course?**

**Agnes ERICH\*, Cristina POPESCU\*\***

\*Valahia University of Târgovişte, \*\*University of Bucharest

This paper aims to highlight the objectives pursued by the teaching faculty at the Valahia University of Targoviste and University of Bucharest who teach a course in information literacy, emphasizing the proposed approach type, the topic and its purposefulness browsing. Also, based on questionnaires completed by students from the two universities mentioned above, students who have graduated such a course, we try to obtain the feedback from them regarding their expectations after following such a course.

**Keywords:** information literacy, curriculum, higher education, user expectations

## **Tools for lifelong learning using Information Literacy**

**Lenuța URSACHI, Elena SCUTELNICU**  
Dunărea de Jos University of Galați

The aim of the investigation is to develop useful tools for the lifelong learning, using the information literacy. The paper focuses on the state of the art related to the concept definitions, the evolution of the information literacy, standards and rules - applied in the information literacy - useful for anyone interested in being an information literate person. One of the goals of this paper is to describe some models available in the information literacy teaching, as adequate solutions of the research tasks, processes or questions. Due to their simplicity, the models easily reveal the right steps in teaching and learning information literacy. The models presented have been developed as workflows in research processing. Also, useful resources, which include more models connected to information literacy, are presented in this study.

As a general conclusion, the information literacy can be defined as a concept related to the literacies that continuously improve due to the change and needs of the information society. That is why the researchers always seek for new methods, strategies and teaching skills in order to design new models according to the information environment progress. In the knowledge society, it became a necessity for all of us to be continually informed about the information literacy politics, best models adapted to the society needs, as requirements for better understanding and successful implementation of the research process.

**Keywords:** information literacy models; research process; lifelong learning



## **Information Literacy and Old Romanian Culture (II)**

**PhD. Elena CHIABURU**

Library of the Faculty of Economics and Business Administration,  
Al. I. Cuza University of Iași

Middle Age Man has developed over time to assess the skills of informational books, dominant views of the importance of consecrating their assessment to support the Orthodox faith. Particular aspect is the introduction of the Romanian language in worship, through books written directly in the national language and translation (up to year 1800).

Begun under the impulse of the Counter Reformation and religious, the introduction of Romanian Orthodox church in worship was made possible by political and religious programs undertaken by the two fundamental institutions of the Romanian, the Lord Church. By the middle of the eighteenth century, the Slavonic language was replaced in worship, and has since started another stage of culture, the modernization and expansion of the cultural horizon.

A manifestation of modernization was translated books in the languages of the era in Romanian culture. In this process, the translators have demonstrated skills now called „assessment information. Many scholars, connoisseurs of refined subtleties of theological language and production of the book were able to do bibliografierea and critical editions, to provide explanations of unfamiliar terms in time, translate and summarize books copied simultaneously.

Readers and translators alike have issued both value judgments on the books they read or copy them, as well as to the authors. Towards the end of the eighteenth century, Enlightenment ideas influenced by secularization instruction signs appear, and start reading to be likened to a journey towards knowledge.

**Keywords:** assessment information, religious reform, the Romanian Orthodox Church, the history book, the Romanian language, religious books, translations.

**The Holistic Philosophy of Education in a Literate Society and Its  
Correlations with Motivation, Behaviour and Performance:  
A Cause-to-effect Study on 60 Romanian Teachers**

**Crina POENARIU**

Candidate for PhD Admission in Philology, “Lucian Blaga” University of Sibiu

An information literate society gives a great credit to its accomplishments, or their lack, to education. While literatures on the status and the fundamental roles of the teachers, as well as their efficiency in the process of education have been subject to many debates, however little is written on the causes that produce the involvement of the teachers in the process of integrated education. Thus, in the attempt to legitimate what The Prague Declaration states on the education professionals, that is, the need to engage in encouraging students to ‘examine the causes of behaviors, actions and events’, this paper argues for a cause-to-effect focus, too, answering to the following question: how could teachers perform actively for an integrated curriculum, for a review of the new tendencies in education into a literate society, and how could they engage more in the informative process? A recent study that I have conducted on March-May 2010 reveals some of the interrelated aspects that include motivation, satisfaction with work and social performance, with direct effects on the teachers, their colleagues, as well as on the students and their outcomes in all fields of education. By analyzing the influences of the internalized philosophy of education of the 60 Romanian teachers, the results show interesting connections between the holistic points of view on education, the know-how correlated to personal compass, including intrinsic and extrinsic motivation, as well as psychological well-being.

**Keywords:** information literacy, holistic point of view on education, motivation, behavior, performance

## Section II: Education

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### **Use of information technologies and electronic resources in Education – the approach and experience of the Kharkiv National University of Economic**

**Oleksandr DOROKHOV, Iryna ZOLOTARYOVA**

Kharkiv National University of Economics, Kharkiv, Ukraine

Interaction of education and electronic information resources has been analysed. The main types of electronic resources are described. The interrelation of motivation of information needs and multimedia training is considered. The basic approaches to the acquisition of knowledge and technology of e-learning are given.

Advantages of the electronic information are shown. Evolutionary development of electronic storehouses of the information has and the electronic storages of information as a e-learning tools has been analyzed. The resource and the service approach to providing information of the educational process has been investigated. The experience of practical cooperation between the Kharkiv National University of Economics and the World Bank in organizing information to support education is described.

**Keywords:** e-learning, electronic information resources, multimedia training

### **Impact of e-Books in university students learning process**

**Ane LANDOY,**

University of Bergen Library, Norway

Is reading just reading? What do we mean when we talk about “reading” an electronic book? Is this perhaps depending on the situation? Is it different when we are reading for leisure or reading for learning? For information gathering or emotions? Reading longer or shorter texts? What impact does the device we read on have, from books to screens to reading tablets? What is reading for learning as compared to reading for other purposes?

These are major questions that I will not touch. Instead, I will be looking closely at one small issue: How can the emergence of e-books impact the

university students learning process, and how can the university library help our students use this source of information in the most efficient way?

**Keywords:** E-books; Students; Learning; University libraries

## **WEB and WAP Health Information Tools for Lifelong Health Learning**

**Elena PODOLEANU<sup>1</sup>, Ionuț CHIRIAC<sup>2</sup>,**

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WEB and WAP Health Information Tools for Lifelong Learning.

**Introduction:** In this paper, is presented, the result of a multidisciplinary and multi-partnership team research project conducted in 2005-2008, part of the National Research, Development and Innovation Program - Research of Excellence (CEEX, Competition 1, 2005).

**Objectives:** The objectives of the EDUSAN project were to create a web and wap portal with Health Information for Lifelong Health Learning for every citizen who wants to improve the level of knowledge, regarding prevention of diseases and for a healthier life style. We use the results of the research, the information database, as instrument for the development of the health knowledge for Medicine Students and Resident Physicians in the process of learning and information.

**Methods:** EDUSAN’s database have information provided by specialists in human anatomy and health education from “Carol Davila” University of Medicine and Pharmacy and from the Public Health Institute Bucharest (ISPB).

**Results:** The results of the research are: the portal EDUSAN for web ([www.edusan.info](http://www.edusan.info)) and the portal for wap ([www.edusan.org](http://www.edusan.org)) for mobile access to the database.

**Conclusions:** The web and wap portal can be accessed and consulted by every citizen on PCs but also by high speed mobile communications (EDGE/GPRS/3G). The Medical Informatics and Biostatistics Laboratory of the Faculty of Dental Medicine, has organized the EDUSAN Information Centre, in order to implement the applicative research results on learning process designated for medicine students and resident physicians. In this place

they can access the information stored in the system database by touchpad screen monitor, from outside the Lab.

**Keywords:** *e-health, health information, healthcare education, lifelong health learning, WAP, WEB*

## **E-Learning and Digital Libraries - Case study on children between 6-11**

Asist. Drd. **Alina Elena PITIC**, Prof. Dr. **Ioana MOISIL**,  
“Lucian Blaga” University of Sibiu, Faculty of Science  
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eLearning means the transfer of skills and knowledge by using computers and computer networks. The eLearning processes and applications include web-based and stand-alone computer-based solutions. In our paper we are presenting the design and development of a web based adaptive system aimed towards educating citizens for an electrical energy saving behaviour. The system is made up out of three subsystems: an adaptation mechanism, a user profiling module and a knowledge base. We have employed a user-centred design approach. A set of questionnaires have been devised in order to collect user data.

**Keywords:** Digital libraries, eLearning, Software Architecture, Adaptive System, Interaction Design, User-Centred Design

## Section III: Digital Libraries

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### Constantin I. Karadja in the Collections of the Romanian Academy Library

**Florin Gheorghe FILIP**

The Romanian Academy Library

The title of this talk contains the names of three distinctive entities, namely:

a) *Constantin I. Karadja*, b) *the Romanian Academy Library*, and c) *the collections*.

The main emphasis of the talk will be laid upon the documents associated with the name of Constantin I. Karadja in the Library's collections. To set the stage for describing this collection, a few data about his personality and the Library will be given first. Then a sample of several items out of Kardaja funds shall follow. More copies of documents shall be displayed in the exhibition and an almost permanent trace of the material is to be found on the website of the Library. (<http://www.biblacad.ro/>).

### Preserving, conserving and archiving digital patrimony

**Elena TÎRZIMAN**

University of Bucharest; The National Library of Romania

Mass digitization and the large quantity of already digitized material were the main factors that made digital preservation and conservation to be a real problem for the holders of electronic resources and digital documents. Libraries too face these challenges. Long-term preservation and conservation implies national rules and regulations in accordance with the local realities and with the international developments; the development of local standards, building a strong infrastructure, sharing the resources and using adequate software are ways of creating access to the digital resources.

Solutions and policies for preserving and conserving the digital heritage can be found at institutional level, national level, European level, international level.

**Keywords:** Digital preservation; Digital heritage; Digital library; Standards; Procedures; Legislation.

## **SIPTEH project: integrated system of technical digital content**

**Mioara VONCILĂ, Lenuța URSACHI, Cecilia BURICEA**  
Dunarea de Jos University of Galati

The paper provides a summary of the experiences concerning the SIPTEH project, launched in the summer of 2008 and having as major interests creation of an institutional repository at „Dunarea de Jos” University of Galati (local level) and of an integrated system of technical digital content at partnership level.

The key issues reported by users were considered as it follows: generating and gathering of relevant information, optimum pre-indexing and indexing, construction of a multilingual thesaurus, the achievement of self-guided information storing systems, fast processing – following the principle of parallel processing of the information gathered from these self-guided systems and especially the centralized storing of information in order to be retrieved rapidly by the users, using friendly user interfaces during the whole processing. The paper sets out the stage of the project till present outlining the activities that have been developed to contribute to digital content creation: intellectual property issues; materials selecting and digitizing; open access and open source; digital libraries and institutional repositories; digital libraries integrated systems; mathematical models, etc.

As the first initiative of an integrated information processing system at national level, this project is intended to demonstrate that information can be processed not only by the consortium members involved, but also by an enlarged community.

**Keywords:** national digitization project; institutional repository; integrated digital content system.

### **New values of University Library in the Digital Age**

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Today we assist at a transition from the traditional library to a digital library. There have been numerous changes in the way that libraries organize information and how users seek, gain access to, and obtain library materials.

These changes have modified many traditional library services, introduced new terms, and created new library uses. In the Information Age, is needed a digital library because the emergence of digital technology and computer networks has provided a means whereby information can be stored, retrieved, disseminated and duplicated in a fast and efficient manner.

Starting from these aspects the paper focuses on evolving of digital library and development of information technology, on the purpose, challenge and new redesigning of library and librarian in the digital library environment.

**Keywords:** digital library, information age, information resources, access, storage, digitisation

## **Tools for the Digital Library**

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It is beyond my capacity to give a genuine definition for a digital library solution, and therefore, I shall restrict myself to identifying some of its major characteristics. Although this might be easier a task than defining a digital library itself, it remains a difficult and subjective task.

Without the intention of being complete and concentrating on those topics that are relevant within the context of the "Tools for the digital library" discussion, the following elements can be indicators: access to different data types, access to local and remote information, access from local and remote sites, access from different platforms, access from different user-interfaces, access to all the information through a same interface, access-control and accounting and interconnecting formal library information.

**Keywords:** digital library, traditional library, information, internet, user



## **Digital Libraries in the Social Networks Era**

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The impact of the social networks nowadays is impossible to ignore. Sales companies turn towards them as they acknowledge the opportunities provided by the virulence with which information spreads within the communities of these networks. Facebook, at more than 600 million users is the largest one of these, to date. The use of its framework for the promotion of digital libraries constitutes an opportunity and a challenge at the same time. In this paper we propose an architecture to enable the promotion of digital libraries within the social network environment.

**Keywords:** Digital libraries, Social network, Facebook, Social learning, Consumer, Software Architecture

## **Digital Preservation – A New Challenge for Digital Libraries and Institutional Repositories**

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The paper intends to analyze the new concept of digital preservation. After defining the term and presenting a brief history of it, the paper exposes challenges and requirements of the preservation of the digital heritage. It also debates strategies and experiences, and it draws attention on its vulnerabilities.

**Keywords:** digital objects, digital preservation, digital repositories

## Europeana Libraries - the Aggregation of European Cultural Heritage through Data Standardisation

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*Motto: There is probably no greater ambition than to perpetuate our rich cultural heritage. It is therefore in full consciousness of our responsibility towards past and future generations and in deep humility that we have approached our mission. (Comité des Sages<sup>1</sup>)*

This paper wants to launch in the professional environment of the Romanian libraries, the European scale project - the digital library, *Europeana*. Being the result of collaboration of professional organizations, universities and research libraries from several countries, Europeana aims at making the cultural heritage available, anywhere, anytime, online - in the virtual environment of the Internet.

Although we are only two participants from Romania: *The Lucian Blaga University Library of Sibiu* - together with the *Romanian Academy Library*, we consider it is our mission and honour, to promote and disseminate this project launched two years and a half ago. It involved enormous work, had gathered valuable experience and established processes for developing digital content aggregation ranged from multiple sources of different data standards.

**Keywords:** europeana libraries, digital library, metadata standards, cultural heritage.

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<sup>1</sup> Reflection Group for European Commission

## Section IV: Information Sciences and technologies

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### **The National Software Library – virtual library for products related to informatics**

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The paper presents the concept of National Software Library, its objectives and role in the development of the information society in Romania. There are presented the main functions of the library, along with the way they are implemented in the National Software Library at the National Institute for Research and Development in Informatics, I.C.I. Bucharest. There are descriptions of the structure of the record that defines an object in the library, procedures for creating / updating data collections, access protocols and services provided.

The paper analyses by comparison differences and similarities among functions of a "classic" library and those of a software library, as well as, advantages for the library system in Romania and for the librarians' community.

### **Web platform for the preservation and usage of information from BNR<sup>2</sup>**

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In this article we present the technological platform used for the development of the "*Integrated On-line System for Management of the National Retrospective Bibliography (SIMBNR)*". This platform covers: definition of the hardware and software architecture, database structure of the SIMBNR system; setting of the levels of access to information from the SIMBNR system database; presentation of the procedures for data visualization through a Web portal.

**Keywords:** technological platform, retrospective national bibliography, databases, Web portal.

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<sup>2</sup> Retrospective National Bibliography

## **Library Involvement in Knowledge Management**

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Knowledge management is an emerging concept that has been approached globally in the recent years. Knowledge management is an entirely new model and method of management.

Knowledge management entails the connection of information with the human environment so as to comprehend the sharing of knowledge.

From a historical point of view, the conventional functions of a library are to gather, process, distribute, store and utilize document information to offer knowledge services to the society. Currently, in the knowledge economy era, the library has become a habitat for human knowledge, participating in knowledge advancement, and has become an important linkage in the knowledge innovation chain.

In the knowledge economy era, libraries have added significance to vocational training and lifelong education of library staffs to elevate their scientific knowledge level and capacity of acquiring and innovating knowledge.

Knowledge innovation is the heart of our knowledge economy. Libraries acquire scientific research and it processes it directly. Our libraries effort is a module of knowledge innovation. Libraries should consider the distribution and exchange of knowledge, thus the role of knowledge management in libraries will be to endorse relationship in and between libraries, and between library and user.

Information technologies applications expand the scope of knowledge gaining, raising knowledge acquirement speed and reducing costs. It is unfeasible to achieve such key tasks by using manual labor in a modern society in which the knowledge changes with each passing day.

The library has become a repository of human knowledge and should actively be involved in the shaping of our society. From this point of view, in recent years, the libraries have experienced a metamorphose: from being the stage where knowledge was presented to a leading actor, sharing with its user the experience of serendipity and hidden meanings.

**Keywords:** knowledge management, information technologies

## Using Genetic Algorithms for Weights Space Exploration in an Eurovision-like weighted Meta-Classifier

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Automatic document classification has become an important task because of the continually increasing number of text documents with the users have to deal. The aim of this paper is to develop a non-adaptive meta-classifier for text documents in order to increase the classification accuracy. The developed meta-classifiers are based on combining some SVM classifiers and a Naive Bayes classifier. We proposed a new meta-classification method which takes into consideration the corresponding positions and confidence degrees obtained for all the classes. In this work we have tried to find, using Genetic Algorithms, the optimal weighting factors for the values returned by each classifier separately. Consequently, there is a possibility for the meta-classifier to decide that the winner is a class that is not necessarily one of the winner classes returned by the individual classifiers. The experimental results have showed that the classification accuracy can be improved through the proposed method.

**Keywords**— Text Classification and Performance Evaluation, SVM, Meta-classification, Genetic Algorithms

## OpenAIRE, a model for access to scientific resources

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Open Access Infrastructure for Research in Europe – OpenAIRE is a project that follows the European Open Access Policies, as set out by the **ERC Scientific Council Guidelines for Open Access** and the **Open Access pilot** launched by the European Commission. The project is building a Helpdesk system established at European level and also an electronic infrastructure for the researchers to use and contribute to. OpenAIRE is the project that makes Open Access paradigm a tangible European effort to open up the research output to anyone interested in getting up to date information in a particular field. For the two important components mentioned, OpenAIRE is to be considered a model for access to scientific resources.

**Keywords:** ERC, Open Access, OA, infrastructure, scientific resources, OpenAIRE

## **„High performance” – career management**

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A “good” start in any activity requires adequate persons. In order to start with their “right” foot these persons have to be motivated so they could become enthusiastic performers. It is very important, after employment and training to make these persons want to belong to the Group.

Training and re-training the staff members, selecting and using the mentors, setting a collaborative and cooperative working climate are necessary approaches in order to set up the foundation for the high performance.

**Keywords:** Career, career planning, career management, career development, promotion system for managers, career evaluation, obstacles in managerial career.

## **The Impact of Cloud Computing in Information literacy**

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As the awareness among the people is increasing the people is becoming keener to learn diverse fields of knowledge every day. This requirement can only be fulfilled with the assistance of vast database network. With the growing popularity of this network, people in everyday life get accustomed to access necessary information through the Internet. Meanwhile, as people continue to improve information literacy network, the network services also put forward higher requirements. As the internet has to handle large amount of data every day, the face of such heavy data processing: how to process the data quickly and easily that provides the users with personalized web services becomes a great challenge. It is in the context of this demand, that caused the birth of a new network computing model called Cloud Computing. It is based on distributed computing, user-centered: the data being present in the sea of clouds, you can get at anytime, anywhere to a safe and convenient way to access it or share it with others. Cloud Computing leads the internet into each data storage center and data computing center. Its introduction will enable users to move the desktop as the core, the core to Web-use Network Storage services. Cloud computing led us into a new era of information.

**Keywords:** cloud computing, information literacy network, data storage center.