

information interactions 2016



[INTERNATIONAL WORKSHOP]

## [INFORMATION INTERACTIONS 2016]

[DIGITAL SCHOLARSHIP, INFORMATION ETHICS  
AND INFORMATION LITERACY]

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26th and 27th October 2016  
BRATISLAVA  
UNIVERSITY LIBRARY IN BRATISLAVA, VENTÚRSKA 11

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# INFORMATION INTERACTIONS 2016

DIGITAL SCHOLARSHIP,  
INFORMATION ETHICS  
AND INFORMATION LITERACY

INTERNATIONAL WORKSHOP

[Abstracts]

University Library in Bratislava, 26th and 27th October 2016

Editors:

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The Department of Library and Information Science,  
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Bratislava  
2016

**Main topic:**

information interactions - digital scholarship, information ethics and information literacy

**Objectives:**

presentations of research results, discussions on topical questions of theory and practice, presentations of doctoral students' projects, discussion on methodological problems of information science.

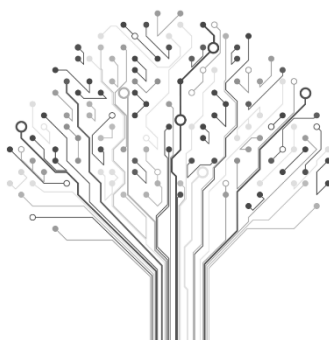
The international workshop is realized within the project VEGA1/0066/15 Modeling of the information environment of digital scholarship.

**Content:**

research papers of researchers, doctoral students, computer scientists, practitioners, managers

**Topics:**

information behavior of researchers, digital scholarship, open science, big data, information ethics, information literacy, social networks, digital libraries, information repositories, information support of science, etc.

**Organizing institutions:**

University Library in Bratislava, Department of LIS

and

The Department of Library and Information Science,  
Faculty of Arts, Comenius University in Bratislava

**Program chair:**

Prof. PhDr. Jela Steinerová, PhD.

**Organization chair:**

Mgr. Katarína Buzová, PhD.

**Place:**

University Library in Bratislava (Ventúrska 11), conference room

**Time:**

26th and 27th October 2016 from 9:30

*For linguistic and stylistic editing is responsible the author of the abstract.*



Doctoral students section - program for 26<sup>th</sup> of  
October 2016

09:30 otvorenie / opening (Jela Steinerová, KKIV FiFUK)

09:45 Modely sociálnych médií (Social media models)  
(Katarína Haluzová, KKIV FiFUK)

10:10 Informačno-mediálne správanie pod vplyvom multitaskingu (Media-information behaviour under the influence of multitasking)  
(Lenka Duchoňová, KKIV FiFUK)

10:35 Horizonty informačnej gramotnosti (Information literacy horizons)  
(Jakub Fázik, KKIV FiFUK)

11:00 Informačná etika v kontexte informačnej gramotnosti (Information ethics in the context of information literacy)  
(Františka Tomoriová, KKIV FiFUK)

11:25 Nadstavbové nástroje e-zdrojov pre podporu vedy (Extension tools of e-sources for advancement of science)  
(Ladislav Svršek, AiB)

11:45 - 12:00 diskusia / discussion

12:00 - 13:00 obed / lunch break

13:00 Budovanie databázy konferencií (Building a database of conferences)  
(Martin Vaško, FIIT STU)

13:25 Possibilities of data mining of user interaction data out of system Clavius  
(Anna Janíková, FPF SU)

13:50 Dlhodobá archivácia digitálnych objektov v inštitucionálnych repozitároch (Long-term archiving of digital objects in institutional repository)  
(Michaela Kmet'ová, KKIV FiFUK)

14:15 Správa inštitucionálneho repozitára vedeckej knižnice - prekážky a výzvy (Administration of institutional repository in scientific library - obstacles and challenges)  
(Henrieta Gábrišová, KKIV FiFUK)

14:40 - 14:55 diskusia / discussion

14:55 - 15:10 prestávka / break

15:10 Informačné správanie vedcov v digitálnych spoločenských a humanitných vedách (Information behavior of scientists in digital social sciences and humanities)  
(Michal Sliacky, KKIV FiFUK)

15:35 The „Transition bibliographique” program: the French recipe for adopting RDA  
(Szabolcs Dancs, National Széchényi Library, HU)

16:00 Widening the limits of cognitive reception with online digital library graph databases on the semantic web  
(Márton Németh, Debrecen University, HU)

16:00 - 16:30 diskusia, záver / discussion, closing

The workshop is organized as part of the research project VEGA 1/0066/15  
Modeling of the information environment of digital scholarship.

Miesto/place: Univerzitná knižnica v Bratislave, prednášková sála  
University library in Bratislava, lecture hall  
(Ventúrska 11)

Termín/date: 26. - 27.10.2016

Organizátori/organizers: Comenius Uni LIS dept., ULIB





Conference program for 27<sup>th</sup> of October 2016

10.00 otvorenie / opening (Silvia Stasselová, ULIB ; Jela Steinerová, KKIV FiFUK)

10.15 User experience in digital libraries (keynote)  
(Elaine Toms, Sheffield University Business School, UK)

11.15 Revisiting the paradoxical nature of information  
(Horatiu Dragomirescu, Bucharest University of Economic Studies, RO)

11.45 Information behavior of researchers: contexts of digital scholarship  
(Jela Steinerová, Comenius University in Bratislava, SK)

12.30 - 13.30 obed / lunch break

13.30 Methodological problems, research and pilot initiatives at the information & media literacy specialization of the University of Pécs  
(Judit Béres, University of Pécs, HU)

14.00 Education of primary school pupils about information security  
(Pavla Kovářová, Masaryk University in Brno, CZ)

14.30 Digital habitus of children and parents in Slovakia  
(Martina Porubčinová, Slovak Academy of Sciences, SK)

15.00 - 15.15 prestávka / coffee break

15.15 From theory to metatheory and metascience: about reality and syndrome of the queen of sciences  
(Michal Lorenz, Masaryk University in Brno, CZ)

15.45 Information science and librarianship in the Czech Republic and Slovakia 2001-2015: bibliometric and content analysis  
(Ladislava Zbiejczuk Suchá, Masaryk University in Brno, CZ)

16:15 - 17:00 panelová diskusia, záver / panel discussion, closing

The workshop is organized as part of the research project VEGA 1/0066/15  
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## INTERNATIONAL WORKSHOP

### **Elaine Toms** **Experiencing Digital Information Spaces**

What makes a compelling user experience? How do we know when users are engaged? To have a good user experience, a user must be able to do the task that brought the user to the system, in a simple, elegant way with a good first impression and a pleasurable overall process from start to finish and deliver an acceptable outcome. This is a challenging task and especially for digital libraries founded on legacy systems that must now compete in a smart technology world. This talk will discuss what it takes to create that seamless experience, balancing aesthetics and functionality, and discuss how we can evaluate the user experience in a holistic way.

*Prof. Elaine Toms*  
*Sheffield University Business School.*  
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### **Horatiu Dragomirescu** **Revisiting the paradoxical nature of information**

In today's science, information is under thorough, methodical scrutiny in several disciplines, while, in today's human life - at individual and societal level alike - information is crucial to any instance of awareness, achievement and progress. Interestingly, information is meant to encapsulate what we know/learn about anything, yet it is being perceived, itself, as an eternal unknown that calls for further, more and more sophisticated understanding.

Information is revealing its manifold and paradoxical nature in terms of its very essence, as well as its peculiar phenomenology. Being abundant, information eludes the economic law of scarcity. Being shareable and thus becoming, post-delivery, equally available to its suppliers and beneficiaries, it entails non-equivalent exchange patterns. Having high fixed production costs and negligible reproduction costs, it induces increasing returns-to-scale, by contrast to ordinary tangible goods. Being easily transferrable, information cannot be taken back, once revealed. While information, in the form of both stocks and flows, is ubiquitous, considerable effort is needed in order to track and capture a specific piece of it. While - if considered "in bulk"- information is over-abundant, it is still difficult to meet a specific user's demand. Information is, under certain conditions, rendered subject to private ownership while it generally tends to leak.

Far from altering such key features, digital technologies are, in turn, influencing their actual ways of becoming manifest, while also considerably influencing our own ways of thinking about information.

*Prof. Horatiu Dragomirescu*  
*Bucharest University of Economic Studies*  
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### **Jela Steinerová** **Information behavior of researchers: contexts of digital scholarship**

Information behavior of researchers in contexts of open science and digital scholarship is considered for understanding information needs and changing information infrastructures for scholarly communication. Our main research questions are: Which components build the conceptual framework for modeling information environment of digital scholarship? Which differences in information behavior of researchers of different disciplines can we identify? An analysis of models of digital scholarship is presented as the context of the research. A qualitative study of information behavior of 19 selected researchers is outlined based on semistructured interviews. First results of content analyses are presented, including common general methodological approaches and different information interactions and publishing. In conclusion an ecological model of research information interactions is explained, composed of expertise factors, methodological factors, and open science factors.

*Prof. PhDr. Jela Steinerová, PhD.*  
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**Judit Béres**  
**Methodological problems, research and pilot initiatives at the information & media literacy  
specialization of the University of Pécs**

In 2007 the students majoring in library and information studies at the University of Pécs, Hungary were the first who have had the possibility for information & media literacy specialization. This can be taken as a new result in the field of the Hungarian higher education as so far it has been the first initiative of independent information literacy studies based on a long-term and complex curriculum. The starting point of the specialization was the idea that the acquisition of information literacy demands special professionals with high-level information literacy who upon finishing the programme will be able to teach this kind of competencies in public and higher education. The overall objective of the specialization is to offer an in-depth and specialized information literacy for librarian students and to promote their instructional methodology to be applied when teaching information literacy. The paper focuses on the methodological experiences and inspirations we have gained in the recent few years, presenting our research and pilot initiatives related to the field of information literacy.

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**Pavla Kovářová**  
**Education of primary school pupils about information safety**

The goal of this presentation is to introduce the conception of education of primary school pupils on information safety. Information safety means responsible behaviour when working with information, now strongly connected with information technology. The information safety is an important component of media and information literacy (Global Media and Information Literacy Assessment Framework 2013). Interaction with information and information technology is still taught in very limited thematic focus (mostly limited to working with basic software) at primary schools. But pupils often learn technological aspects of working with information themselves or in family, the school or other educational institution has a strong influence in the topics of information literacy, such as information evaluation (Bastl, Boudová a Řezáčová 2014). Information evaluation is actually the basic step for information safety. Most of the attacks whose victims can be not only children are associated with inappropriately placed trust in information from the Internet even attacks with a technical nature such as malware. With children, however, they are more associated threats such as cyber bullying or online grooming, which are based entirely on incorrect assessment of the credibility of information or humans. Another problem is the inappropriate behaviour when interacting with information that does not match the information ethics (e.g., "Like" on Facebook on the harm post). All this points to the need for education of pupils in the topics of information security and the close relationship with issues of information literacy and information behaviour. A conception of education of primary school pupils on information safety was created in accordance with the constructivist pedagogical paradigm. One lesson for each year of primary school is created for active and cooperative learning. The lessons are independent but they gradually develop not only knowledge but also skills and attitudes for responsible behaviour when working with information in the online environment. Lessons for 1<sup>st</sup> to 8<sup>th</sup> grade have already been piloted in the Municipal Library in Polička for Masaryk primary school. All of these lessons have been evaluated by participant observation and simple smilesheets for pupils. Lessons for 1<sup>st</sup> to 5<sup>th</sup> grade have been evaluated also by focus group with teachers. Results from these evaluations have influenced actual content of the conception and they are part of the presentation. Furthermore, all classes completed the pretest and posttest which will be process during the autumn of 2016. Therefore, the presentation is work-in-progress, not final results of the study.

References

BASL, Josef, Simona BOUDOVOVÁ a Lucie ŘEZÁČOVÁ. *Národní zpráva šetření ICILS 2013: počítačová a informační gramotnost českých žáků*. 1. vyd. Praha: Česká školní inspekce, 2014, 57 s. ISBN 978-80-905632-6-1.  
*Global Media and Information Literacy Assessment Framework: country readiness and competencies*. Paris: UNESCO, 2013. ISBN 978-92-3-001221-2. Dostupné také z: <http://unesdoc.unesco.org/images/0022/002246/224655e.pdf>

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**Martina Porubčinová**  
**Digital habitus of children and parents in Slovakia**

In this paper we focus on a mechanism of inter-generational reproduction of patterns of behavior in digital space (digital habitus). Based on concept of *digital habitus*, socio-demographic differences in *digital competence* of parents and in perception of positive and risk aspects of the digital participation and the awareness of parents about children's participation in the digital world (*digital ethos*) are reflected. The empirical findings confirm that the digital habitus is determined social-demographically and it acts as a reproductive mechanism of the level of digital literacy in Slovakia.

Also, we examine the intergenerational determination of digital habitus of the members of “the internet generation” and their parents, following the reduction of the digital generation divide of digital literacy and formation of internet generation of parents in Slovakia. Based on empirical data on digital literacy in Slovakia, the digital generational divide can be identified in the case of the members of the first internet generation of the children (born in the second half of 90's) and their parents (born 1962-1974), as the level of digital competence of parents is lower than in the group of children in the studied groups (88%, 100%). The signs of the digital divide in the field of digital literacy are disappearing for the parental generation in the average reproductive age (currently 25 to 32 years). This generation is being formed as a future first internet generation of parents, accompanying their children without digital divide in the level of digital literacy. We can expect some forms of the digital divide decreasing in intensity due to the convergence of the level of digital competence and digital ethos of parents and children (f.e. in the field of expectations of the transformative power of Internet) in future. The digital divide may, on the contrary persist in the areas of awareness of activities of children in the digital space, or in digital participation of children realized more with friends than with their parents.

The paper discuss the potential of educational system to compensate the insufficient development of digital habitus of children from families with low SES. With regard to the extent of the use of internet as the educational aid and the pedagogical tool, we stress the need to compensate the insufficient development of the digital habitus of children. The potential of education system to compensate difficulties in the development of digital literacy, digital ethos and digital entrance represents one of the effective ways.

Acknowledgements: This work was realized under the project VEGA No. 2/0010/14 *Institutional and technological changes in the context of European challenges*.

*Mgr. Martina Porubčinová, PhD.*  
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**Michal Lorenz**  
**Od teorie k metateorii a metavědě: o realitě a syndromu královny věd**

Mezi odborníky se můžeme setkat s názorem, že informační vědy nejsou běžným oborem, ale hrají roli metavědy, jsou oborem nad ostatními obory. Příspěvek představuje teorie popisující informační vědy jako metavědu a ukazuje, z jakých metateorií vychází a jak řeší Capurrovo trilema o povaze reality. Informační metavěda může znamenat, že obor je vědou o vědě, vědou o realitě nebo vědou věd, která nahradí na výsostné pozici vědy fyzikální a sjednotí všechny teorie do jednoho rámce. Možnost vytvoření jednotné teorie informace těmito metavědami je zhodnocena z perspektivy účastné filosofie, emergentní ontologie a digitální metafyziky.

*PhDr. Michal Lorenz, PhD.*  
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**Ladislava Zbiejczuk Suchá**  
**Information Science and Librarianship in the Czech Republic and Slovakia 2001-2015:**  
**Bibliometric and Content Analysis**

We have conducted a detailed study in the field of the information science and librarianship in the Czech Republic and Slovakia. Using the data from Web of Science database, our analysis focused on basic descriptive bibliometric mapping and content analysis of texts published in this field during the period 2001-2015. We identified the basic indicators of scientific production and also the directions and prevailing topics in this field.

*PhDr. Ladislava Zbiejczuk Suchá, PhD.*  
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**Szabolcs Dancs**  
**The „Transition bibliographique” program: the French recipe for adopting RDA**

One of the current objectives of the National Széchényi Library is to implement a new nation-wide library platform supporting shared cataloguing. The future project involves the adoption of all relevant standards and also serves as an opportunity to introduce new cataloguing rules considered to be comprehensive in the sense of covering all document types, including the ones emerged (and are going to emerge) with the development of technology. Today RDA seems to have no rivals in the arena, so it is quite obvious to choose it as the basis of the new national standard / guidelines for library cataloguing. When preparing for the project we endeavoured to identify best practices for implementing an RDA based cataloguing policy. The presentation gives a deeper look into the Bibliographic Transition Program in France outlining a path which might be to follow.

*Szabolcs Dancs*  
*chief advisor at National Széchényi Library of Hungary, president of the Hungarian National Committee*  
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## DOCTORAL WORKSHOP

### **Katarína Haluzová** **Social media models**

Social media are dominating communication services in our lives. For a long time they are interesting not only for ordinary people but also for experts, which they carry out many researches. One of the possible effective results of their scientific work in this field are social media models.

The aim of this presentation is to illustrate several models related to social media that represent information-communication behavior.

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### **Lenka Duchoňová** **Media-information behaviour under the influence of multitasking**

Modern technologies became a natural part of our life. Their progress reflects itself in personal, professional but mainly in social life. In recent years we can observe great shift in the way how people consume the media. Behind this change lies an interesting possibility of multitasking.

Author's interest is focused on the problems of multitasking from the text perception point of view. This aspect makes multitasking part of media-information and reading behaviour, especially that of students. This entry introduces the topic of individual transformations that influence types of behaviour mentioned above. Also it pinpoints various forms of multitasking in cognitive demanding processes like reading.

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### **Jakub Fázik** **Information literacy horizons**

The paper is focused on the analysis of selected models of information literacy in several respects of special methodology of social-scientific research and general methodology. Within the categories of social science methodology, the author deals with comparing contexts in which analyzed models have been created, notes the purpose of their creation, examining objects, the methods of collection and evaluation of data and research sample selection. In the framework of general methodology, the author tries to create basic typology of models for further analysis and comparison.

*Mgr. Jakub Fázik*  
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### **Františka Tomoriová** **Information ethics in the context of information literacy**

The concept of information ethics is quite extensive. It is necessary to deal with it also with regard to information literacy, which does not get enough attention. Ethical thinking and critical thinking are interrelated and both are for information literacy necessary. An important aspect is the ability to prevent various problems related to lack of literacy in information ethics. Basic problems are visualized and relationships between them are portrayed. They are situated in the context of information literacy.

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**Ladislav Svršek**  
**Nadstavbové nástroje e-zdrojov pre podporu vedy**

Nadstavbové nástroje pre prácu s elektronickými informačnými zdrojmi (EIZ) pomáhajú vedecko-výskumným pracovníkom vyhľadať, spracovať a zdieľať potrebné odborné informácie. V prostredí EIZ je možné identifikovať jednoduchšie nástroje, ktoré sú zvyčajne súčasťou jednotlivých vyhľadávacích rozhraní, ale aj sofistikovanejšie nástroje dostupné ako samostatná a univerzálna služba. Príspevok poskytuje prehľad základných nástrojov podľa jednotlivých typov a ich vzťahu k digitálnemu obsahu a vedeckej komunite.

*Mgr. Ladislav Svršek*  
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**Martin Vaško**  
**Budovanie databázy konferencií**

Samotné údaje o jednotlivých vedecko-výskumných udalostiach a aktivitách sú spracovávané v rôznom rozsahu a vo viacerých informačných zdrojoch. Práce prezentované na týchto udalostiach sú zasa vo väčšine prípadov spracované a tiež zdokumentované v digitálnych knižniciach v podobe zborníkov z týchto konferencií, prípadne sú tieto práce uverejnené v špecializovaných číslach vybraných periodík. Tieto periodiká, ako aj články v nich uverejnené sú tiež spracovávané v digitálnych knižniciach. Na druhej strane, renomované citačné indexy sledujú a spracovávajú záznamy o publikáciách, ktoré citujú tieto publikované výsledky vedy a výskumu z konferencií a iných udalostí. Z uvedeného vyplýva, že informácie o udalostiach ako aj o publikovaných výsledkoch vedy a výskumu, ktoré boli na nich prezentované sú spracovávané v heterogénnom prostredí a nie je teda jednoduché získať tak komplexné informácie o udalosti z jedného miesta. Cieľom práce je navrhnúť a implementovať riešenie, ktoré z relevantných zdrojov automatizovanou formou zhromažďuje informácie o vedecko-výskumných udalostiach ako aj o ostatných základných entitách vedy a výskumu do databázy a umožňuje tak centralizovaný prístup k týmto informáciám a poskytuje tiež prehľad vzájomných vzťahov medzi týmito entitami ako aj medzi vlastnosťami, ktoré ich opisujú.

*Bc. Martin Vaško*  
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**Anna Janíková**  
**Possibilities of data mining of user interaction data out of system Clavius**

There are many types of research techniques that libraries can use in pursuing their goal for better information services. And sometimes the aim can include processing data from library management system. Our question is: can a library use data from library management system Clavius to specify user interactions with the library and get better understanding of how they use their services? If it is possible, to what extent? Our presentation should address this possibilities and show some examples of discoveries that were already made.

*Mgr. Anna Janíková*  
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**Michaela Kmet'ová**  
**Long-term preservation of digital objects in institutional repositories**

The author focuses on research in long term preservation of digital objects in institutional repositories and clarify the theory of long term sustainability of digital objects. The main aim is the analysis of policies for long term archiving in foreign institutional repositories for the purpose of draft universal recommendations for long term archiving in academic repositories of Slovakia. These should be in accordance with official certification criteria RLG/ NARA Trustworthy Repositories Audit & Certification: Criteria and Checklist 2007. In theoretical part author deals with the definition of relevant concepts and terminology, describes problematic aspects of digital archiving. She analyses models for digital archiving and preservation of digital objects. Defines the different tools and processes of long term digital archiving, focuses on the status of a trustworthy repository through the certification criteria, such as organization structure of digital repository, technological (system) environment and technology for management of digital object in repository. The practical part presents the goals, methods and research tools of analysis of policy for long term archiving. The final part of the paper provides recommendations for the draft and creation of long term digital archiving policy and protection of digital objects in the institutional repositories of the academic environment in the Slovak Republic.

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**Henrieta Gábrišová**  
**Správa inštitucionálneho repozitára vedeckej knižnice - prekážky a výzvy**

Digitálne informačné prostredie v súčasnosti generuje veľké množstvo dát medzi ktoré patria aj výstupy vedy a výskumu. Takéto výstupy produkujú, hoci v neporovnateľne menšej miere ako univerzity a s ohľadom najmä na participatívnu účasť na projektoch a aplikovaný výskum, aj vedecké knižnice a iné pamäťové a fondové inštitúcie. Bez možnosti zapojiť sa do národného alebo centrálného repozitára publikačnej činnosti sa tak výsledky ich publikačnej činnosti dostávajú na okraj pozornosti a záujmu. Aké sú potreby a nároky týchto inštitúcií vo vzťahu k budovaniu inštitucionálnych repozitárov, ktoré by tieto výstupy uchovávali a sprístupňovali a aké sú ich očakávania od takéhoto úložiska a systému zároveň? Aké nároky kladie správa inštitucionálneho repozitára na takýto typ inštitúcie? Príspevok prinesie dotazníkový prieskum a na základe príkladu vyhodnotí nároky na správu repozitára zo strany inštitúcie ako je vedecká knižnica s ohľadom na špecifiká danej inštitúcie. Naznačí možné budúce smerovanie od inštitucionálneho repozitára k báze znalostí.

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**Michal Sliacky**  
**Information behavior of scientists in digital social sciences and humanities**

The aim of this paper is to inform the professionals about PhD. project that is oriented on information behavior of scientists in digital social sciences and humanities. In the introduction purpose and goals are mentioned of the research. Further, the results of information retrieval as the foundation of theoretical elaboration of the topic are outlined including models of information behavior, surveys of information and publishing behavior and trends influencing the current scientific communication and its models. The emphasis is on the discourse regarding terminology directly related with the topic of research - digital science, its openness and digital social sciences and humanities and their place in digital science. An own conceptual map is presented; the role of this map within information ecology is to find the tool for better understanding and solution of scientific problems related with the phenomenon of information behavior, with regard to differences between scientists from various scientific disciplines, with regard to digital social sciences and humanities.

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**Márton Németh**  
**Widening the limits of cognitive reception with online digital library graph databases on the semantic web**

The main aim of this paper is to provide examples and the possibilities to widen the limits of cognitive reception via online graph databases related to different semantic web projects in public collection environment. The implementation of open linked data conception to public collection environment (archives, libraries, museums) lead to a paradigm-shift in the fields of information search and retrieval and digital document management. This paper at first briefly describes the nature of this paradigm-shift. It is focusing on the benefits and limitations of some current linked data model implementations related to cognitive reception. It also offers a brief comparison based on user experience in different semantic-web based and traditional digital library user interfaces. The enhancement of cognitive reception through these new kind of digital library interfaces with semantic elements can add a new focus to cognitive research in Library and Information Science field.

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