Digital Transformation

21-22 January 2021
BOBCATSSS 2021 Virtual Conference

Porto, Portugal

BOOK OF ABSTRACTS

Porto, 2021

The abstracts are published under the responsibility of the authors. Editing work consisted only in correcting grammar and typing errors.

Bobcatsss 2021 – Porto Digital Transformation

January, 21-22, 2021
Virtual Conference

Book of Abstracts

Preface

This Book of Abstracts provides an overview of all selected papers, Pecha Kucha and posters that will be presented at BOBCATSSS 2021 Virtual Conference on "Digital Transformation" (https://bobcatsss2021.sciencesconf.org/).

The conference is jointly organized by the Porto Accounting and Business School - Porto Polytechnic (ISCAP), Portugal, University of Library Studies and Information Technologies (ULSIT), Sofia, Bulgaria and University of Leon, Spain.

BOBCATSSS is an international annual symposium which addresses hot topics for librarians and information professionals in a fast-changing environment. It is created by and for students, teachers, researchers and professionals in the information field. BOBCATSSS is held under the auspices of BOBCATSSS Association (https://bobcatsss.info/, former EUCLID (European Association for Library and Information Education and Research). It is a tradition which has been passed on from one European country to another since 1993, providing a rich professional conference, accompanied by numerous opportunities for networking, personal exchanges, discussions, and learning.

The 29th conference of BOBCATSSS is a virtual edition, due to the COVID-19 worldwide crisis.

This year, we have chosen "DIGITAL TRANSFORMATION" as the theme for BOBCATSSS 2021.

Information and communication technologies have a great impact on society, namely concerning the immediacy of access to information, the constant increase in the available information volume, the automation of services, the dematerialization of processes, the change in supports and formats, the attention to the client and changes in the behaviour of individuals. These impacts are also felt in the way people interact with information, in professional, academic, personal and playful terms.

Soon, half of the consumers will be digital natives, and this will force the digital transformation in organizations, creating new opportunities for change, including in organizational, cultural and legal standards.

Digital transformation as an effect of a process marked by the influence of ICT in society will influence changes in every social dimension, including business models and in the way they develop, with ICT and, inseparably, information, having a leading role in any organization.
According to Rogers (2016)[1] and Herbert (2017)[2], it is possible to identify five domains where the digital transformation takes place, and which are based on the transversal use of ICT:

1. Customers, who interact dynamically with organizations
2. Competition, which impliesa differentiation of organizations in relation to the consumer / final customer
3. Information, which due to its essential nature for the business, whether structured or not, will require an increasingly strict management
4. Innovation, focusing on the development of new ideas
5. Value, which becomes volatile in the face of market demand.

Information professionals face challenges that can be characterized by the transfer and sharing of knowledge, their safeguarding, the selection and filtering of information, the management of information and resources, access using national and international networks and the structuring information service appropriate to the organization.

It will therefore be necessary for information professionals to be active elements in the digital transformation

---

[1] Rogers, David L. (2016). The Digital Transformation Playbook: Rethink Your Business for the Digital Age. Columbia Business School Publishing.
[2] Herbert, L. (2017). Digital Transformation: Build Your Organization's Future for the Innovation Age. London : Bloomsbury.

of organizations, as true informational mediators which is why the theme of the BOBCATSSS 2021 virtual conference is "Digital Transformation."

The conference aims to connect theoretical approaches and professional practices by addressing the **DIGITAL TRANSFORMATION** from the perspective of the LIS community, information managers, librarians, and archivists.

In the Book of Abstracts, the 49 contributions are listed in alphabetical order by title.

Presentations come from 16 countries: Albania, Belarus, Bulgaria, Croatia, Finland, France, Ghana, Hungary, Japan, the Netherlands, Poland, Portugal, Spain, Sweden, Turkey, and the United Kingdom.

We all together confirmed the thought, shared by Paavo Arvola, President of the BOBCSATSSS Association, at the Bobcatsss Association Newsletter in September 2020: *"Distance conferencing should not mean social distancing, though. A conference is not only for sharing knowledge, but to promote and facilitate collaboration and networking among participants. This is very much so in Bobcatsss…."*

And in the BOBCATSSS 2021 edition!

Thank you for your fruitful collaboration!

Organizers of BOBCATSSS 2021

Porto Accounting and Business School - Porto Polytechnic (ISCAP), Portugal

Degree in Documentation and Information Sciences and Technologies / Master I Business Information

Porto Accounting and Business School belongs to Portugal's largest and most prestigious public Polytechnic Institute and offers its 4,000-strong student population a range of innovative undergraduate and graduate programs. The Degree in Documentation and Information Sciences and Technologies (LCTDI) trains qualified professionals for the areas of Information Management, Library Science, Archive and Documentation. It provides the development of specialized technical skills in systemic information management in any type of support, in the most diverse sectors of activity, including the creation, research, evaluation and selection of quality information and its organization, making it accessible and usable to employees and customers of organizations. It prepares specialized technicians capable of accompanying and using the technological innovations appropriate to the management of information resources of any type of organization. LCTDI annually, organize the CTDI Meetings which promote, an important international forum for the discussion and sharing of information science subjects.

The Master in Business Information presents an opportunity for in-depth study to prepare professionals with solid knowledge and skills for information management in organizations, linking two key areas: Information Science and Information Systems and Technologies. In a context of the rapid development of the information and knowledge society, it is expected that the graduates of this program can help organizations to meet their information needs by demonstrating skills to: - Assess problems, design solutions and propose/adopt approaches related to Information Management. - Facilitate and make efficient and effective the creation and use of the information resources and the information flows required by organizational activities. - Manage organizational intervention projects aimed at the adoption and use of information technologies and systems.

The University of Library Studies and Information Technologies (ULSIT), Sofia, Bulgaria

Is one of the leading universities in Bulgaria with modern and dynamic development (http://www.unibit.bg). Its predecessor, the State Library Institute was founded in 1950. ULSIT is accredited by the National Accreditation and Evaluation Agency to deliver education in Bachelor, Master, and Doctoral degrees. It has professional preparation and educational competence and capacity in the field of: Library and Information Sciences, Cultural and Historical Heritage, Social Communications, Informatics and Computer Sciences and National Security. The main university units are: Faculty of Library Studies and Cultural Heritage, Faculty of Information Sciences, and Department of Comprehensive Studies. Since 2012 UNESCO Chair plays the role of a center of excellence and innovation zone in the specified areas of ICT in Library Studies, Education and Cultural Heritage (http://unesco.unibit.bg/). ULSIT was co-organizer of BOBCATSSS 2020 in Paris, France.

The University of León, Léon, Spain

The University of León is a pioneer among the official titles of the Diploma in Library Science and Documentation in Spain in offering Blended Learning since the 2006/2007 academic year. Degree in Library and Information Sciences has a curriculum of 240 ECTS. The length of course is four years.

- Possibilities: Blended Learning and Online
The online mode uses the University of Leon's Moodle/AVIP platform, which allows timetable freedom without making attendance mandatory. Students will only have to take an on-site test per subject to be scheduled at the end of each semester. These on-site tests can be taken in different locations authorized by the ULE throughout the whole country.
- Employment opportunities:

There is a labour market demand for professionals such as: archivists, librarians, documentalists, bibliographic and documentary heritage managers, digital content managers, experts in corporate information management, consultants and trainers in the use of information.

The area of library and information science organizes the meeting of academics, students and media professionals. The last meeting took place in 2018 on 'Digital and informational competences in the library'.

Our Teams:

P.Porto, Portugal, main organizing Team: Agostinho Sousa Pinto, Alexandra Albuquerque, Ana Isabel Azevedo, Ana Lúcia Terra, Ana Paula Camarinha, António João Vidal Carvalho, António José Abreu, Cláudia Susana Pinto, Dalbert Marques Oliveira, Luís Silva Rodrigues, Maria Inês Braga, Maria José Angélico, Maria João Castro, Milena Carvalho, Mariana Curado Malta, Patrícia Pereira, Rosalina Babo, Rui Humberto Pereira, Susana Martins, Susana Pinto, Ana Margarida Correia Borges, Ana Patrícia Pereira Ferreira, Angélica Correia Lopes, Cristiana Sofia Ferreira Ramos, Gonçalo Bateira da Costa, Leonor Filipa Oliveira Eusébio, Maria Sofia de Tété, Paula Carolina da Silva Moreira, Filipa Cunha, Inês Pacheco Teixeira, Paula Cantante.

University of Library Studies and Information Technologies (ULSIT), Sofia, Bulgaria, co-organizing team: Svetoslava Dimitrova, Elena Popova, Denitza Dimitrova (PhD Students), Kristiyan Simeonov, Stanislav Lyubenov and Yanislava Mitkova (Bachelor and Master students) and Tania Todorova, Lubomira Parizhkova, Sabina Eftimova-Ilieva (lecturers).

University of Leon, Spain, co-organizing team: María del Carmen Rodríguez López, María Lourdes Santos de Paz, Josefa Gallego Lorenzo, María Luisa Alvite Díez, Andrés Fernández Ramos, Marian Morán Suárez, María Blanca Rodríguez Bravo, Isabel Olea, Patricia Herrero Sánchez, Rafael Ceballos Roa, Ángela Díez Díez, Leticia Barrinuevo Almuzara.

Meeting at 25th October 2019, ISCAP-Porto

24th January 2020, Closing Ceremony at BOBCATSSS 2020, Paris
Photos: T. Todorova archive

Information Management and Exponential Learning in Society 5.0: Foundations for an Integrated System

Dalbert Oliveira, Patrícia Pereira
Porto Accounting and Business School, Polytechnic Institute of Porto, Portugal
Corresponding author: patricia.miranda.97@gmail.com

Individuals use the information to reduce discomfort, effort and errors. Thinking about it, headphones were invented, so that the music could be heard without disturbing others; household appliances, to reduce the effort in washing dishes or clothes; and calculating machines, so that human distraction would not cause an accident in calculating the weight that a bridge could bear. But the information has hardly changed the certainties and doubts about which is the most suitable college course to attend; what are the best practices that could contribute to the individual's daily life, during the academic career, which includes when and what to study, what to eat and what to do in their free time. It is undeniable that there is greater access to information, but many times, instead of browsing this information, the individual sinks into it. In addition, teachers and students remain stuck in the curriculum, with the same menu being provided for carnivores, vegetarians or lactose intolerants. If before students were beaten with rules in their hands and were attacked psychologically, having to learn the same as everyone else, nowadays only rules have ceased to exist, at least in theory. Reducing errors in choosing a higher education course and the entire life that governs the academic path can be a dream for many individuals and an integrative system that collects information about the individual and guides him in his academic path could be an extremely useful compass. Know which college course to take; knowing which discipline, among the electives, to choose; know the right time to get up and sleep; what to do throughout the day; what and when to eat; they are all informational outputs that the utopian system could provide, in order to contribute to the individual's success. This paper will attempt to discuss these issues, investigating part of the enabling technologies in today's Society 5.0. The objective is to initiate a debate on the delegation to an integrative system of data, information and knowledge management, the success of individuals and society.

Keywords: education data meaning, integrated system, know thyself, machine learning for education, Society 5.0