



The “Lucian Blaga” University of Sibiu, Romania

The LBUS Library  
and

University of Bayreuth Library, Germany,  
Evangelical Academy Transylvania,  
Computer Science Dept., Engineering,  
Faculty of Letters and Arts,  
VISMA Sibiu

**The 8<sup>TH</sup> INTERNATIONAL CONFERENCE in ROMANIA**

On

**Information Science and Information Literacy**

**CONFERENCE PROCEEDINGS**

April 6<sup>th</sup> - 7<sup>th</sup> 2017, Sibiu, Romania

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# Between theoretical frameworks and practice – Information literacy at Bayreuth University Library.

Universitätsbibliothek Bayreuth

Vera Butz

Thursday, 6<sup>th</sup> April 2017

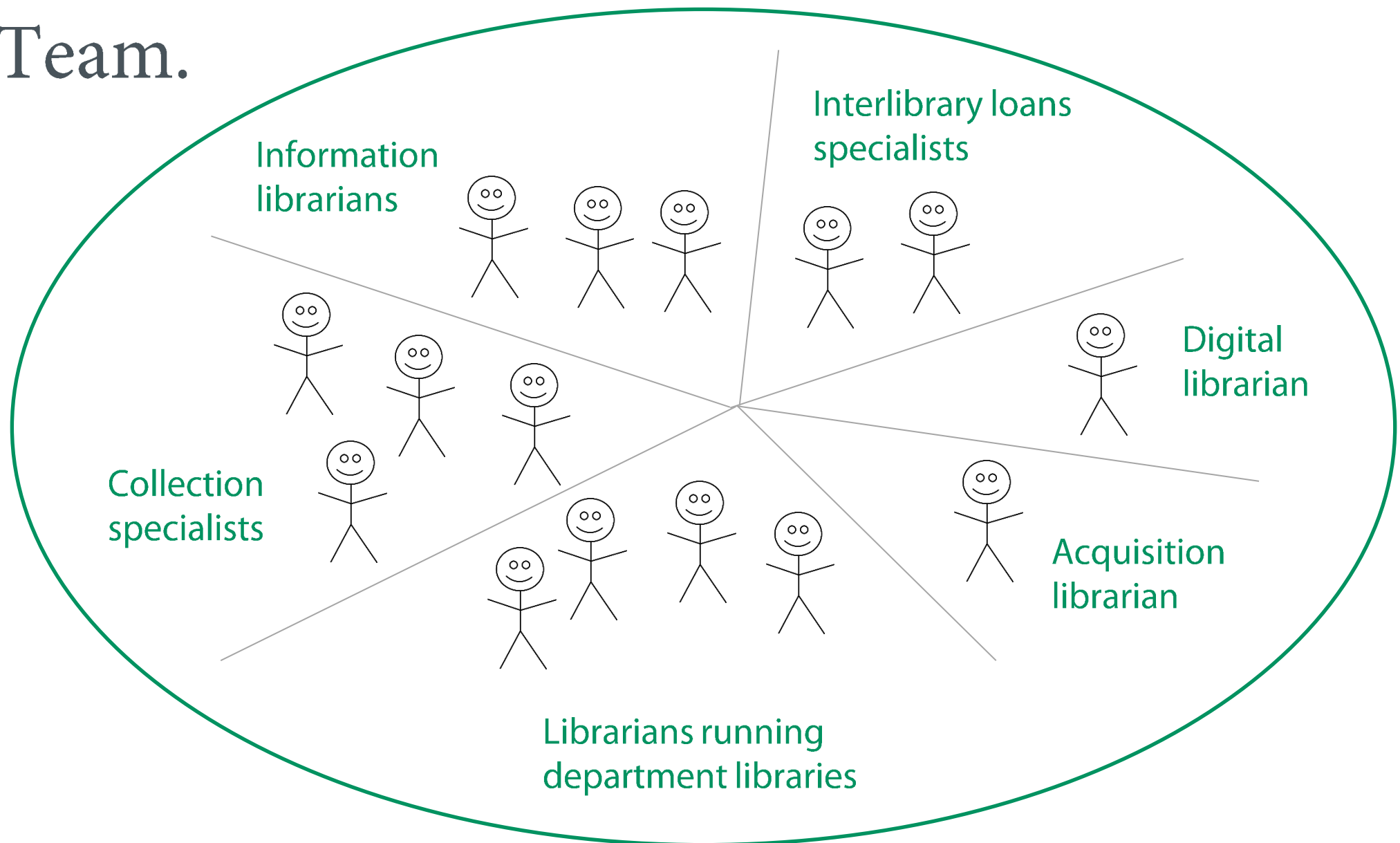


# Agenda.

- Premises:
  - Bayreuth University Library
  - The politics of information literacy in Germany
- Theory: Referenzrahmen Informationskompetenz
- Practice: Information Literacy at Bayreuth University Library



# Team.



# Statistics.

<b>Schüler gesamt</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>
Anzahl Veranstaltungen	59	59	50	64
Teilnehmer	1196	1080	941	1171

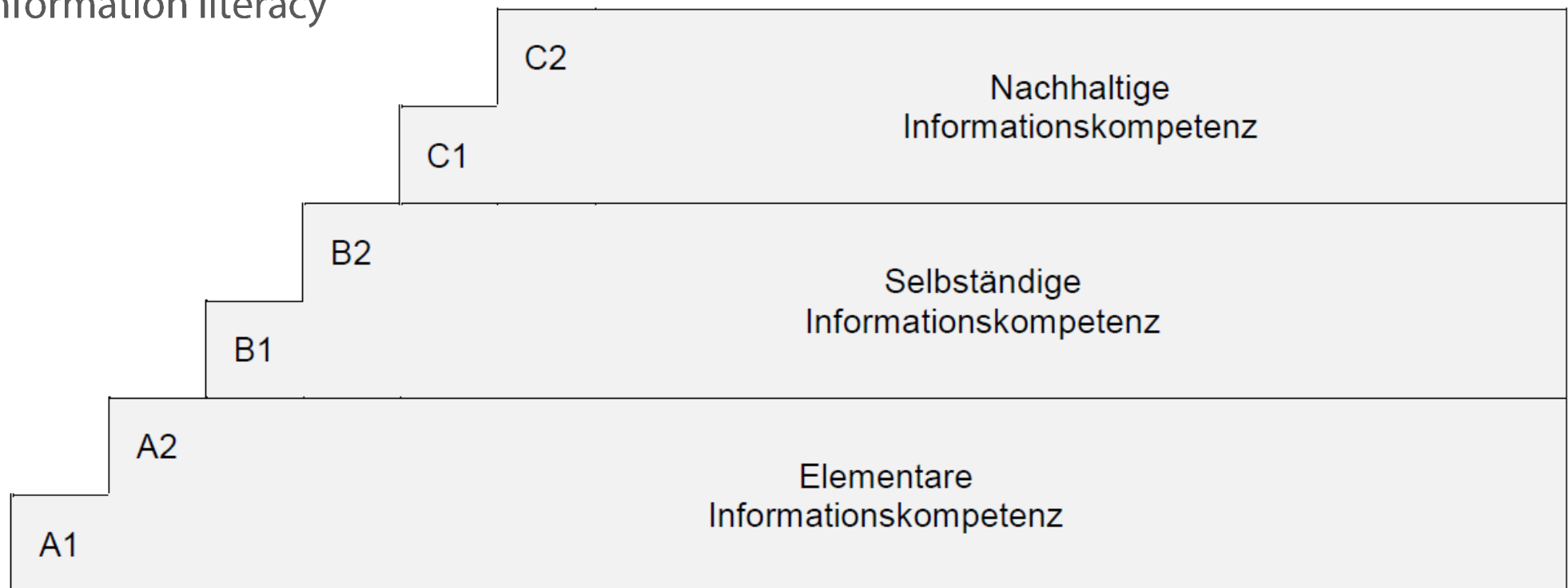
<b>Studierende gesamt</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>
Anzahl Veranstaltungen	151	177	177	183
Teilnehmer	1357	1214	1228	1168
<b>Basiswissen Zeitschriften</b>				
Anzahl Veranstaltungen	7	9	6	6
Teilnehmer	14	35	18	16
<b>Fachinformationen</b>				
Anzahl Veranstaltungen	31	16	15	14
Teilnehmer	643	272	268	215
<b>Citavi, Citavi für Fortgeschrittene</b>				
Anzahl Veranstaltungen	36	35	49	45
Teilnehmer	255	270	421	344

# A recent history of information literacy in Germany.

- 2009 Deutscher Bibliotheksverband:  
*Standards der Informationskompetenz für Studierende*
- 2011 Bibliothek & Information Deutschland:  
*Medien- und Informationskompetenz immer mit Bibliotheken und Informationseinrichtungen!*
- 2012 Deutsche Hochschulrektorenkonferenz:  
*Hochschule im digitalen Zeitalter: Informationskompetenz neu begreifen – Prozesse anders steuern*
- 2016 dbv-Kommission Bibliothek & Schule und Gemeinsamen Kommission Informationskompetenz von VDB und dbv:  
***Referenzrahmen Informationskompetenz***  
(<http://www.informationskompetenz.de/index.php/referenzrahmen/>)

# 6 levels of information literacy.

German reference framework  
for information literacy





# 6 levels of information literacy (in context).



# Skills – steps and criteria.

<b>Suchen</b> Searching	<b>Prüfen</b> Evaluating	<b>Wissen</b> Knowing	<b>Darstellen</b> Presenting	<b>Weitergeben</b> Passing on
Wissensbedarf formulieren	Thematische Relevanz	Formulieren	Einfachheit	Nutzungsbedingungen klären
Quellen finden	Sachliche Richtigkeit	Vergleichen	Semantische Redundanz	Zitate kennzeichnen
Quellen auswählen	Formale Richtigkeit	Einordnen	Kognitive Strukturierung	Quellen nennen
Informationen isolieren	Vollständigkeit	Strukturieren	Kognitiver Konflikt	Netzwerke nutzen
<b>Arbeitsschritte</b>	<b>Kriterien</b>	<b>Arbeitsschritte</b>	<b>Kriterien</b>	<b>Arbeitsschritte</b>

# Example 1: Skill „searching“

Suchen	Prüfen	Wissen	Darstellen	Weitergeben
Wissensbedarf formulieren	Thematische Relevanz	Formulieren	Einfachheit	Nutzungsbedingungen klären
Quellen finden	Sachliche Richtigkeit	Vergleichen	Semantische Redundanz	Zitate kennzeichnen
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<b>Arbeitsschritte</b>	<b>Kriterien</b>	<b>Arbeitsschritte</b>	<b>Kriterien</b>	<b>Arbeitsschritte</b>

# Example 1: Skill „searching“

Step:  
Determine  
the nature and  
extent of the  
information  
needed

	<b>Erkennen und Formulieren des Informationsbedarfs</b>	
<b>Nachhaltige Informationskompetenz</b>	C2	Zu einem wissenschaftlichen Text passende Suchbegriffe formulieren
	C1	Einem wissenschaftlichen Text Suchbegriffe entnehmen
<b>Selbständige Informationskompetenz</b>	B2	Zu einem längeren populärwissenschaftlichen Text Suchbegriffe formulieren
	B1	Einem überschaubaren populärwissenschaftlichen Text Suchbegriffe entnehmen
<b>Elementare Informationskompetenz</b>	A2	Einem journalistischen Text wenige Suchbegriffe entnehmen
	A1	Einem kurzen Lehrbuchtext wenige Suchbegriffe entnehmen

## Example 2: Skill „evaluating“

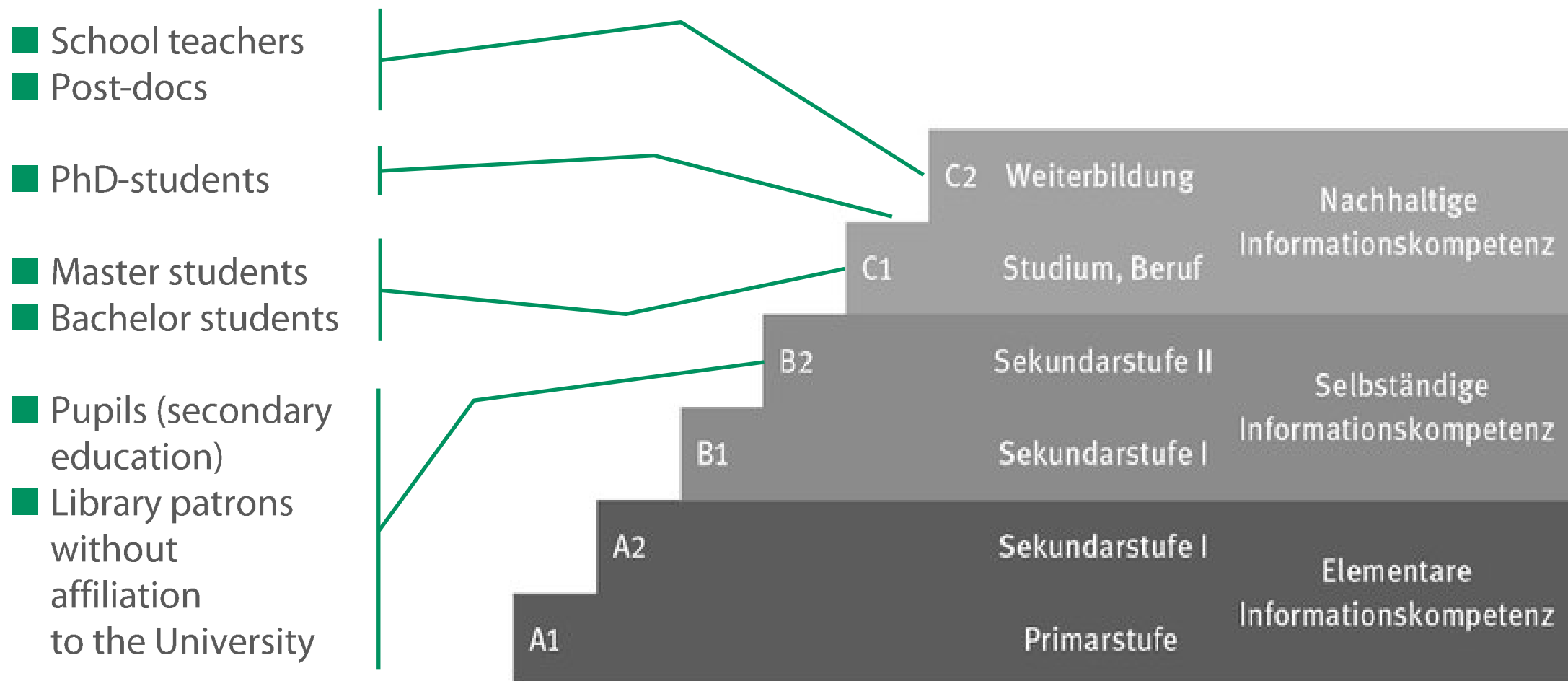
Suchen	Prüfen	Wissen	Darstellen	Weitergeben
Wissensbedarf formulieren	Thematische Relevanz	Formulieren	Einfachheit	Nutzungsbedingungen klären
Quellen finden	Sachliche Richtigkeit	Vergleichen	Semantische Redundanz	Zitate kennzeichnen
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<b>Arbeitsschritte</b>	<b>Kriterien</b>	<b>Arbeitsschritte</b>	<b>Kriterien</b>	<b>Arbeitsschritte</b>

## Example 2: Skill „evaluating“

Criterion:  
Topical  
relevance

	<b>Prüfen der thematischen Relevanz</b>
<b>Nachhaltige Informationskompetenz</b>	C2 Das Suchthema innerhalb eines längeren und komplexen Textes mit mehreren thematischen Schwerpunkten erkennen
	C1 Das Suchthema innerhalb eines überschaubaren Textes mit mehreren thematischen Schwerpunkten erkennen
<b>Selbständige Informationskompetenz</b>	B2 Das Suchthema innerhalb eines kontinuierlichen Textes mittlerer Länge und Komplexität mit diesem Themenschwerpunkt erkennen
	B1 Das Suchthema innerhalb eines einfachen kontinuierlichen Textes mit diesem Themenschwerpunkt erkennen
<b>Elementare Informationskompetenz</b>	A2 Das Suchthema im Texttitel erkennen, wenn dort ein Unter- oder Oberbegriff verwendet wird
	A1 Das Suchthema im Texttitel erkennen, wenn dort derselbe Begriff oder ein bekanntes Synonym verwendet wird

# 6 levels and target groups.



# Workshops and courses for students.

- Library essentials
- How to search and find information for theses
- How to search and find scientific papers and articles
- How to search and find scientifically valid information on the internet <<
- Reference management software *Citavi* (beginners and advances)
- Information Day (*Tipps & Tricks von der Bib*)





Blaugh (2006): The Whole Internet Truth.  
URL: <http://blaugh.com/2006/10/13/the-whole-internet-truth/> (21.02.2011)

# Skills covered.

Suchen	Prüfen	Wissen	Darstellen	Weitergeben
Wissensbedarf formulieren	Thematische Relevanz	Formulieren	Einfachheit	Nutzungsbedingungen klären
Quellen finden	Sachliche Richtigkeit	Vergleichen	Semantische Redundanz	Zitate kennzeichnen
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# Workshops and courses for University of Bayreuth Graduate School.

- Digital publishing <<
- Reference management software
- Bibliometrics and author identification management
- Databases for the Humanities
  
- Research data management

# Skills covered.

Suchen	Prüfen	Wissen	Darstellen	Weitergeben
Wissensbedarf formulieren	Thematische Relevanz	Formulieren	Einfachheit	Nutzungsbedingungen klären
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# Skills (currently) covered in our courses.

Suchen	Prüfen	Wissen	Darstellen	Weitergeben
Wissensbedarf formulieren	Thematische Relevanz	Formulieren	Einfachheit	Nutzungsbedingungen klären
Quellen finden	Sachliche Richtigkeit	Vergleichen	Semantische Redundanz	Zitate kennzeichnen
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# Contact.

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Thank you very much for your attention!

Mulțumesc mult!

Vielen Dank!



FROM BIKES & JUMP  
DIGITAL GA  
Exploring Europe's Ar  
Europeana's

Cristina Roiu | 8<sup>th</sup> International Confe  
Information Science and In  
Sibiu 2017



# What is Europeana?

In a couple of Tweet lengths, tops!

Concours de cycles nautiques sur le lac  
d'Enghien : Berregent piloté par Austerling  
Agence de presse Meurisse  
1914, National Library of France  
France, Public Domain



**“ Europeana is Europe” s Digital Library,  
Museum and Archive  
== Europe’s Platform for Cultural Heritage  
-Almost 54 million digitised cultural items  
-4000 cultural institutions contributors**

The birth of Adonis and  
the transformation of Myrrha  
Luigi Garzi  
The Wellcome Library  
United Kingdom, CC BY

Blowing Bubbles  
Pieter van der Werff  
1700 - 1722, Rijksmuseum  
Netherlands, Public Domain



# europeana

53 million objects and  
then what?

On the challenge of abundance

David Haskiya | Erasme - Descartes 2016

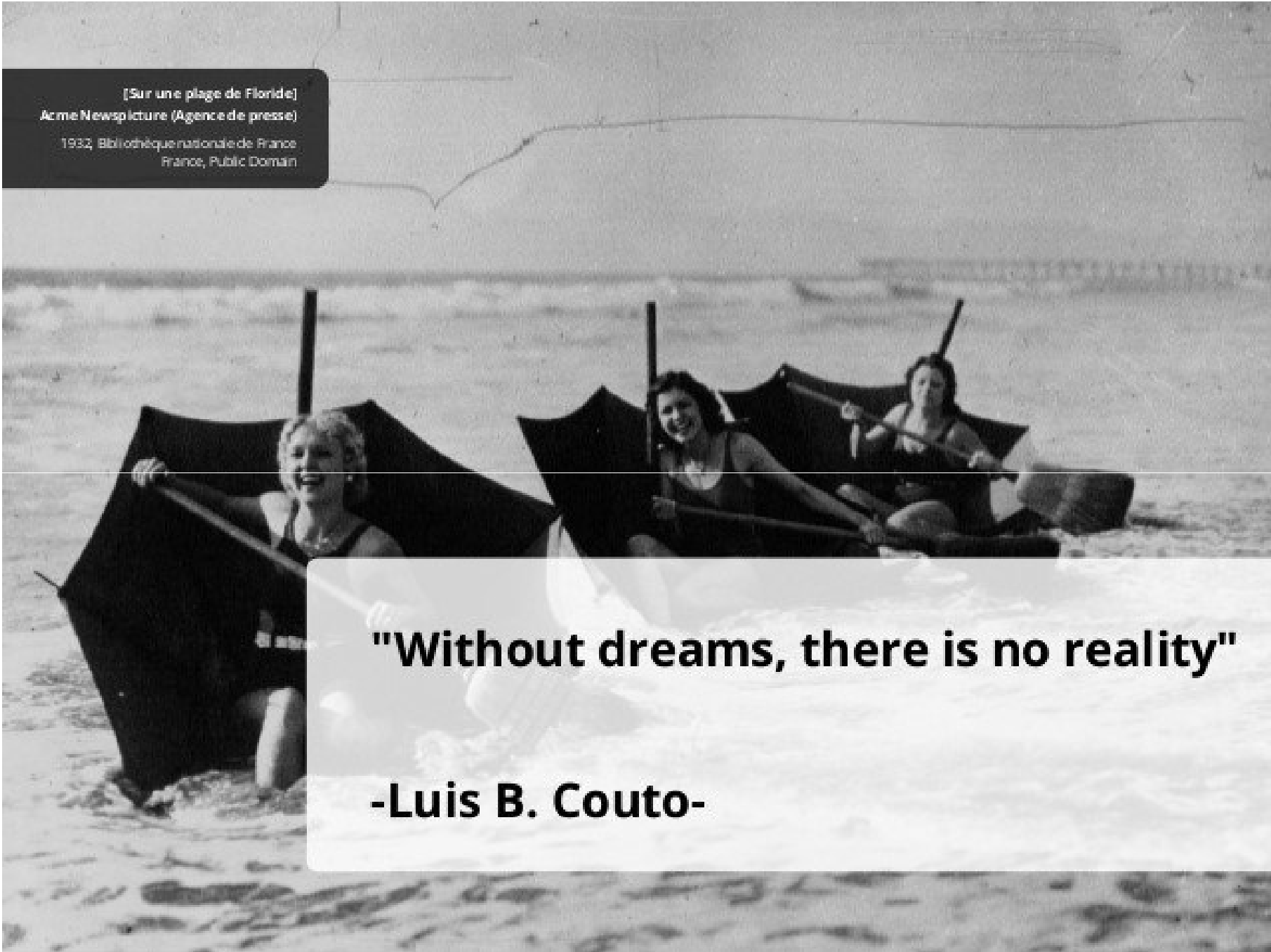


Co-financed by the European Union  
Connecting Europe Facility

# Europeana's Campaigns

- Helping the Large public getting to know, understand and engage with its' common cultural heritage

[Sur une plage de Floride]  
Acme Newspicture (Agence de presse)  
1932, Bibliothèque nationale de France  
France, Public Domain



**"Without dreams, there is no reality"**

**-Luis B. Couto-**

# Europeana 280-Art from 28 Countries of Europe

- Campaign ran from April to December 2016
- 146 participating institutions
- 347 artworks from all 28 EU countries plus Norway
- 155 with open licenses
- All of good quality



Dutch  
presidency



28 COUNTRIES  
X 10 HIGHLIGHTS  
*Art history*

# Europeana 280- Goals

1. Engage people in Europe's rich artistic history
- 2. Encourage the open sharing of higher quality pieces from Europe's memory institutions
- 3. Demonstrate our shared European culture
- 4. Increase buy-in from EU states on the benefits of joint ownership of Europeana
- 5. Create and Promote the new channel from Europeana
- 6. Support the launch of *Europeana Art website* in innovative ways



# Europeana Art History channel

- E 280 has brought together a collection of more than 300 awe-inspiring paintings, drawings, photographs, posters, illustrations, sculptures and other objects which together tell a story of how Europe's art heritage has developed down the centuries.



my Channel brings you the lesser  
known pieces of European art combined  
with titles, videos and other material  
from libraries, archives, and museums,  
of Denmark

1,459,423 Images  
393,117 Texts  
1417 Moving images  
1001 3D objects  
100

ADDED RECENTLY

Prado Museum	100 items
Royal Armouries	6485 items
British Library	33,326 items

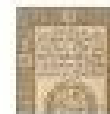
ings

3



All Sculptures

7,029  
images and videos



All An

2,333  
Documents

t on Botticelli

videos



Spotlight on Alexander Restin

46  
images and documents



Spell

240  
images



- “Europe’s art history is rich and varied;
- so many important and beautiful works are often not known outside of the countries that we live in.
- This is a chance to discover those works alongside their more famous cousins, to explore their individual beauty as well as their wider significance.
- For example Pyke Koch’s *magisch realisme* alongside Salvador Dali, or frescoes by Toma of Suceava from Moldavia alongside Da Vinci’s The Last Supper.
- And to be able to do all of this online.”

Jill Cousins- Europeana executive Director

# Selection of items

- Each nominated piece should have contributed to a European art movement down the centuries - from Gothic to Renaissance, from Baroque to Impressionism, and from Cubism to Pop Art.



# #Europeana280

in numbers

7

exhibition  
chapters

#FacesofEurope



50k visits

2

events

#BigArtRide  
#JumpingJacks



12 countries



VIRTUAL  
EXHIBITION  
*Art history*

# ***Faces of Europe* - virtual exhibition**

- **Introduction to Faces of Europe**
- **Chapter 1 Divinity and Discovery**
- **Chapter 2 Baroque and Enlightenment**
- **Chapter 3 Revolution and War**
- **Chapter 4 The inspiration of Nature**
- **Chapter 5 Academic art and new directions**
- **Chapter 6 Painting modern lives**
- **Chapter 7 Challenging beauty and truth**

[List of artworks and institutions in exhibition introduction](#)

[PDF]

[List of artworks and institutions in exhibition chapter 1](#)

[PDF]

[List of artworks and institutions in exhibition chapter 2](#)

[PDF]

[List of artworks and institutions in exhibition chapter 3](#)

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[List of artworks and institutions in exhibition chapter 4](#)

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[List of artworks and institutions in exhibition chapter 5](#)

[PDF]

[List of artworks and institutions in exhibition chapter 6](#)

[PDF]

[List of artworks and institutions in exhibition chapter 7](#)

[PDF]





- Europeana 280 image as hero image - different country each week
- Europeana







PUBLIC INTERACTION  
WITH ART  
*in big cities*

# BigArtRide - Connecting Europe through Culture and Creativity



#BigArtRide



BEELD EN GELUID

DROPSTUFF.nl



- *#BigArtRide is a virtual reality event that has toured twelve cities across Europe –*
- *The Hague, Brussels, Amsterdam, Wroclaw, Nijmegen, Rome, Vienna, Zandaam, Prague, Utrecht, Berlin, Paris, and Bratislava*
- Brought to the public by the Dutch design studio DROPSTUFF.nl, the Netherlands Institute for Sound and Vision and Embassies of the Kingdom of The Netherlands across Europe.



# BigArtRide

- It brings together two participants in different cities (one in the Netherlands, one elsewhere), invite them to get on their (stationary) bikes, put on virtual reality 'Oculus Rift' headsets, and navigate through a virtual city experiencing centuries of Europe's art along the way.

# BIG ART RIDE



<https://vimeo.com/168366282>

<https://vimeo.com/168366282>

[Join the #BigArtRide in Brussels /](#)  
[Ne manquez pas le #BigArtRide à Bruxelles](#)  
[Video of #BigArtRide in Brussels by BRUZZ.be](#)  
[Video of #BigArtRide at EYE Film Institute](#)  
[Video of #BigArtRide Aftermovie by Dropstuff](#)

<https://vimeo.com/168366282>

# #Jumping Jacks



# #Jumping Jacks

- #JumpingJacks is an interactive installation developed by the Danish company Space & Time.
- It uses high quality images of public domain artworks shared in Europeana 280
- It is a fun and playful experience where you make figures - cut out from artworks - come alive.
- When you move your body in front of the installation, the figures wave their arms and legs accordingly and new combinations of body parts from different paintings appear.
- #JumpingJacks was first launched in Vilnius

# #Jumping Jacks



# #Jumping Jacks



# #Jumping Jacks

- <https://vimeo.com/179003176>  
[#Europeana280](#)
- <https://vimeo.com/194361513>
- [Video of #Jumping Jacks in Vilnius](#)
- [Video of #Jumping Jacks in Riga](#)





CC WITH OPEN LICENSE CONTENT

## Partnerships with ArtStack and DailyArt

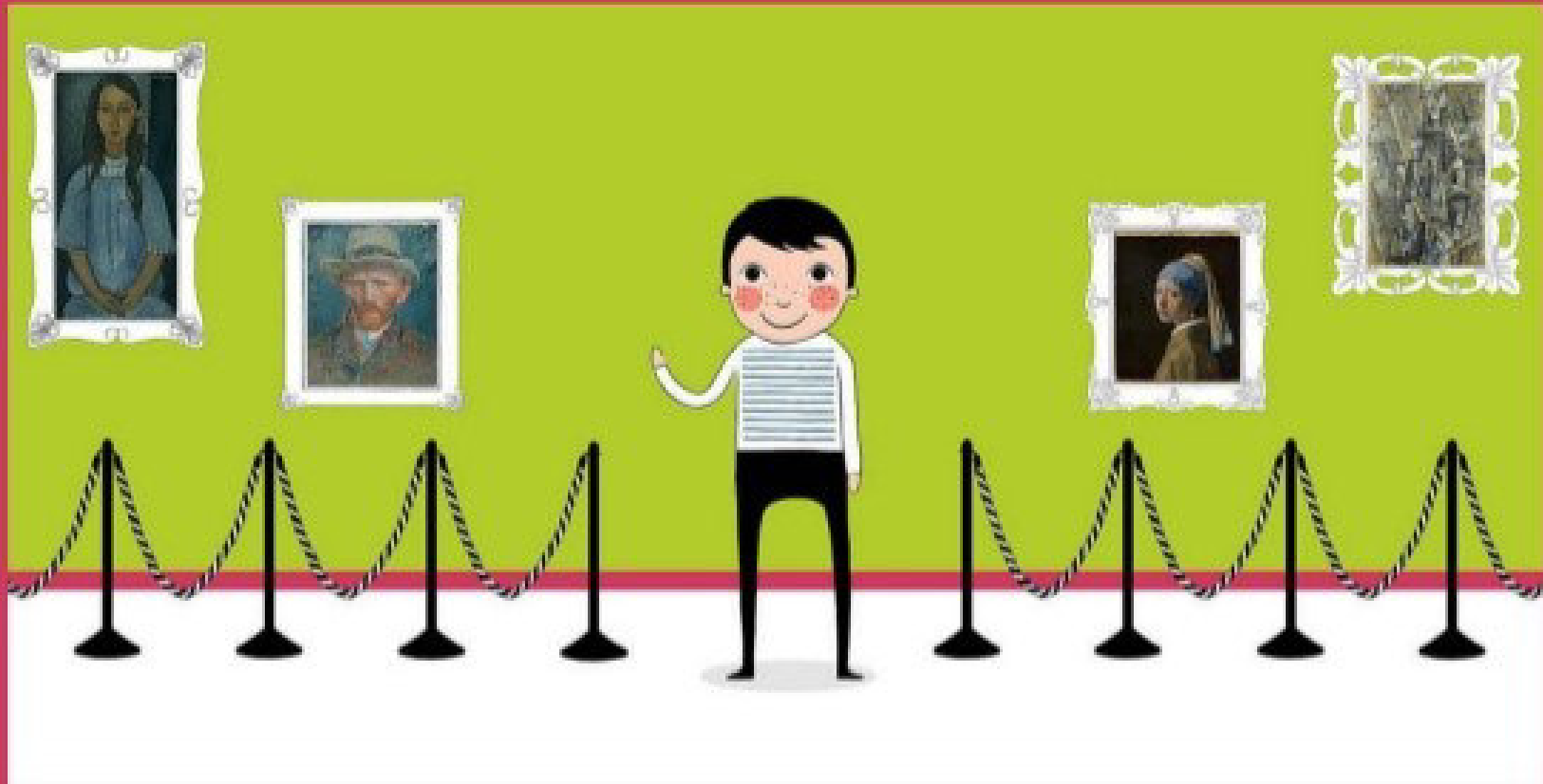
*External platform **ArtStack** and the **free app DailyArt** are both enjoyed by hundreds of thousands of art lovers around the world. Both have been sharing numerous treasures from Europeana 280 with their communities.*

[Introducing ArtStack and DailyArt \[PDF\]](#)

[Europeana 280 on ArtStack](#)

# FACES

FACES is the first test of Art Stories virtual museum: a digital playground where children learn the basics of visual art.





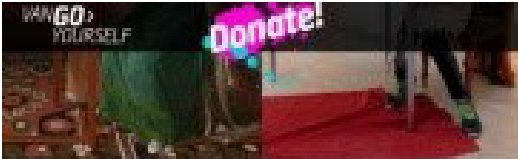
# 'We transform the world with culture'

Europeana Strategy 2015-2020

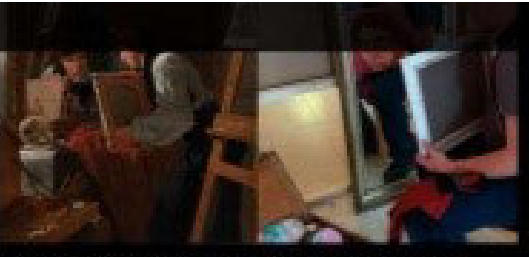


**Tired of just looking at paintings?**





In a Roman Osteria, Carl Bloch (1834-90) vanCo'd by Renne



In a Roman Osteria, Carl Bloch (1834-90) vanCo'd by Caroline



Bella and Hanna, Christoffer Wilhelm Eckersberg (1782-1853) vanCo'd by Marianne and



A Young Artist (Ottavio Bianchi) Examining a Sketch in a Mirror, Wilhelm Bendz (1804-32) vanCo'd by Mel J



In a Roman Osteria, Carl Bloch (1834-90) vanCo'd by Renne



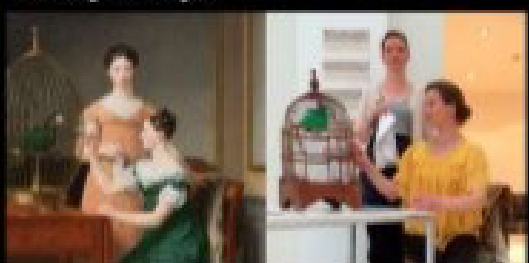
Bella and Hanna, Christoffer Wilhelm Eckersberg (1782-1853) vanCo'd by Mette



Bella and Hanna, Christoffer Wilhelm Eckersberg (1782-1853) vanCo'd by Zina & Brigitte

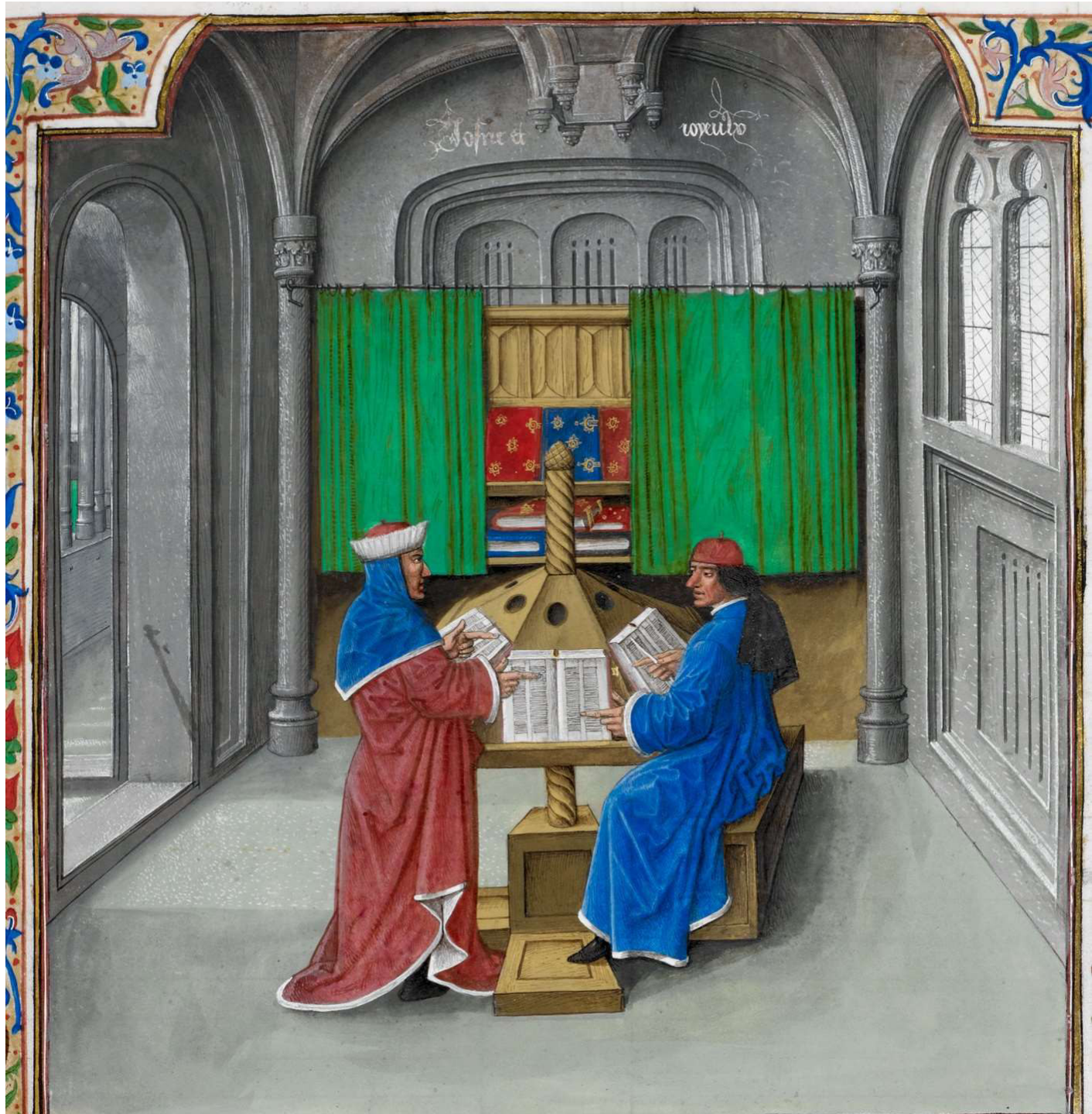


Bella and Hanna, Christoffer Wilhelm Eckersberg (1782-1853) vanCo'd by August













Porträttkarikaturen

"Bibliotekarien" troligen på  
forskaren Wolfgang Lazius

(1514-1565). Giuseppe

Arcimboldo (Archimboldo)

(Tillverkare, , ). Skoklosters

slott. Public Domain."

data-attribution-plain='(sv)

Porträttkarikaturen

Datering1566



-bigartride-europeana-280-presentation.pdf

# SPECIFIC ASPECTS OF USER SATISFACTION IN THE UNIVERSITY LIBRARY

**Cristina ALBU**  
**Adriana CRISTIAN**  
**Narcisa VALTER**

**University POLITEHNICA of Bucharest**



The 8th International Conference on Information Science and Information Literacy, ULB Sibiu,  
Romania 6-7 of April 2017

# Quality management in service organizations



## Criteria of service provision

**INTANGIBILITY**

**INSEPARABILITY**

**UN-STOCKABILITY**

**VARIABILITY**

**USER-LIBRARIAN  
INTERACTION**



# Services. Their role and importance

**intangibility:**  
services through their very nature are intangible

**inseparability:**  
the overlapping of services production and consumption in time

**un-stockability:**  
services cannot be stored for later use

**variability:** the service cannot be repeated identically

## Table 1. Service classification criteria

Classification criterion	Characteristics
Degree of service standardization	<p>Services may be by far more standardized (as opposed to goods that are accessed off the shelf). The service provider can develop a service to suit user requirements.</p> <p>Example: the university library loan service. It requires a high degree of standardization (establishing and compliance with procedures)</p>
Degree of intangibility	<p>Intangibility involves operating problems. Intangibles are difficult to standardize. In this case the service quality is dependent on the librarian</p>
Degree of inseparability	<p>Production and consumption take place simultaneously.</p>
Degree of stockability	<p>It is closely linked to the degree of intangibility and inseparability. The management of the operating system affects both employees and users.</p> <p>Example: an operating system can effectively decrease the waiting time for users, but it can also help workers to adopt a flexible approach.</p>
Degree of user interaction	<p>The demand for service is instant, it cannot be stored. In this case, employee training is very important.</p>
Degree of variability	<p>Variability within larger organizations that have extended contact with users is higher. Thus standardization may contribute to reducing variability.</p>
Degree of acknowledging efforts required	<p>Service delivery covers a wide effort range. Therefore hiring, training, rewarding staff should be a priority for human resources management in the case of high-effort services.</p>

# Users' expectations in a university library

In a university library, these expectations might be the following:

- **Responsiveness**: promptness of response to user requests (including response to complaints);
- **Courtesy**: library staff attitudes towards the user;
- **Understanding**: the extent to which the librarian understands user requirements;
- **Degree of understanding**: the ability to provide the same quality service every time;
- **Communication**: quality of information provided to the user;
- **Competence**: knowledge resulting from service;
- **Tangible service features**: the state of the natural resources used in providing the service (buildings, equipment, etc.);
- **Credibility**: confidence in the services offered by the library
- **User's physical safety** or the security of storing user related information;
- **Access**: user's ease in personally or electronically addressing library contacts

# Features of Quality Management in the university library services



# Features of Quality Management in the university library services

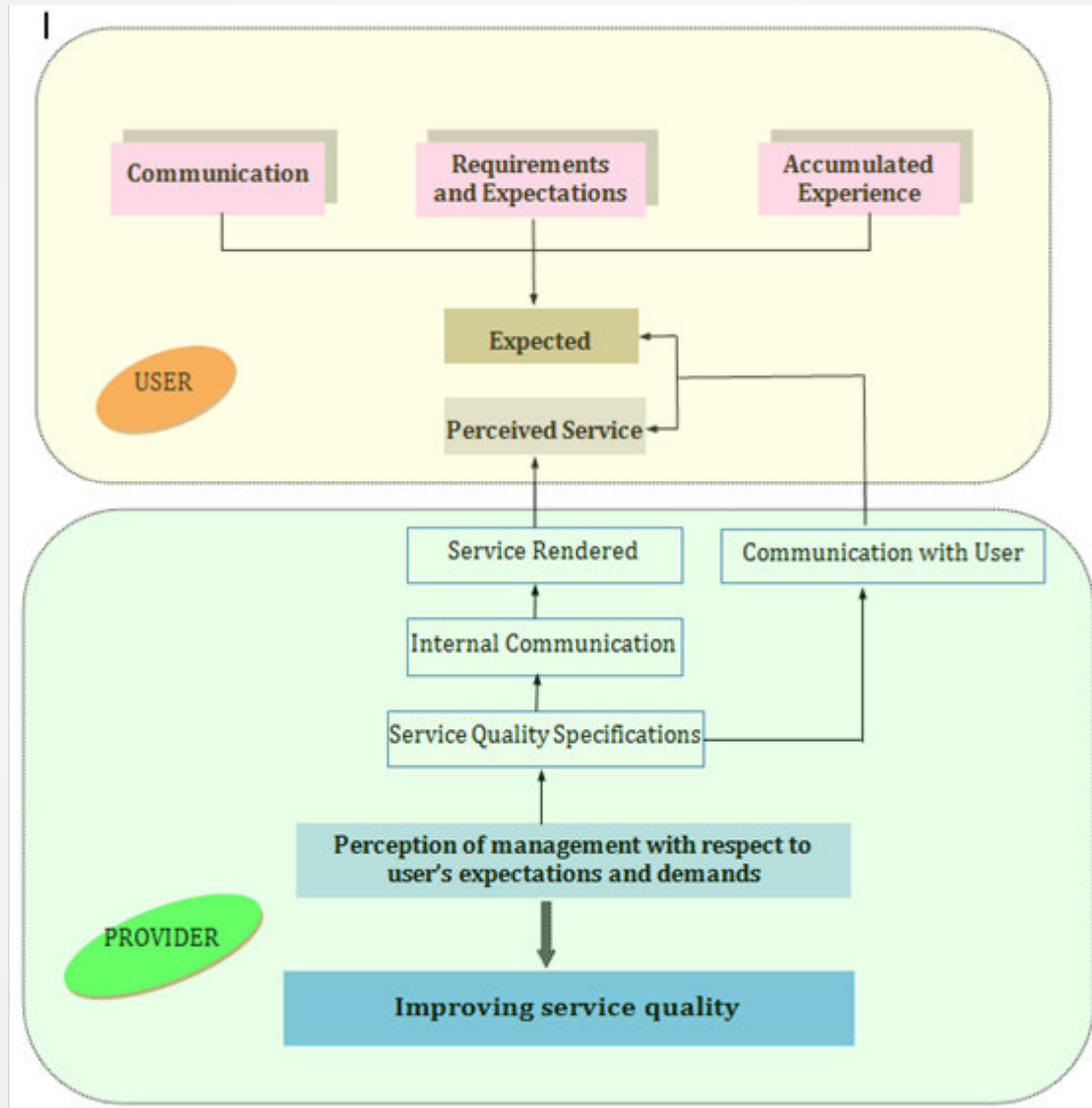
MANAGEMENT SHOULD BE DESIGNED TO ENSURE:

- o an appropriate strategy for services;
- o user-friendly systems;
- o user-oriented staff.

consequences for:

- an improved market share;
- efficiency improvement;
- improvement of service provision and increased user satisfaction.

# Conceptual Model of Quality Services



## Factors that cause lacks/shortages in expected/perceived quality

**Lack1:** difference between the management perception with respect to user's expectations and demands, and the service expected, when one is ignorant of the user's expectations;

**Lack 2:** difference between the management perception with respect to user's expectations and demands and the specifications of the service quality when the standards for service quality are inappropriate;

**Lack 3:** difference between the service quality specifications and service delivery in the case of service failure;

**Lack 4:** difference between (internal and external) user communication and service delivery when the service does not match promises.

# Adaption of SERVQUAL questionnaires to the assessment of user satisfaction

User feedback:

- The SERVQUAL questionnaire is one such technique used for obtaining user feedback.
- Determine perceived and the expected quality of the service provided including likely differences between them.

The questionnaire features compliance with the prerequisites of a market research tool:

- it can be quickly filled in by users;
- it allows a standard approach to collecting information from users;
- it has a standard analytical procedure to guide the interpretation of results.



# Case study

- N\*=150 SERVQUAL questionnaires
- Central Library of the University POLITEHNICA of Bucharest
  - academics;
  - PhD students;
  - master students;
  - bachelor students.

before and after the administration of the loan service  
(at home and/or reading room), (***before and after the move to the  
new library headquarters***).



# Case study

- SERVQUAL questionnaire (A) was completed before service delivery in order to obtain information on user expectations *before and after the move to the new library headquarters*).
- **SERVQUAL questionnaire (P) was completed by users after the service underwent improvement as compared to year 2015 in order to provide information on the user's perception of the service.**

## Table 2. Average perception/Average expectation

Crt Nr.	Average Perception 2016 (P 2016)	Average Perception 2015 (P2015)	Average Expectation (A)	Difference 2015 (D2015)	Difference 2016 (D2016)
1	4,1	3,7	2,9	0,8	1,2
2	4,9	4,0	3,0	1,0	1,9
3	4	3,7	3,1	0,6	0,9
4	4,3	4,2	3	1,2	1,3
5	4,9	4,7	3,3	1,4	1,6
6	3,3	3,3	3,0	0,3	0,3
7	4,9	4,7	3,2	1,5	1,7
8	3,8	3,5	3,6	-0,1	0,2
9	3,8	3,3	2,8	0,5	1,0
10	4,9	4,1	3,5	0,6	1,4
11	4,2	4,5	3,6	0,9	0,6
12	3,9	3,6	3,7	-0,1	0,2
13	4,8	4,5	4,4	0,1	0,4
14	3,7	3,5	4,0	-0,5	-0,3
15	3,9	3,2	4,8	-1,6	-0,9
16	3,8	3,4	4,0	-0,6	-0,2
17	3,7	3,6	3,8	-0,2	-0,1
18	3,9	3,5	4,1	-0,6	-0,2
19	3,2	2,5	3,1	-0,6	0,1
20	3,2	2,6	3,3	-0,7	-0,1
21	3,1	3,0	3,3	-0,3	-0,2
22	3	2,8	3,2	-0,4	-0,2

**Phase 1:** One calculates the average perception/expectation value „ $x_i$ “, referring to question "i" in the set of 22 questions.

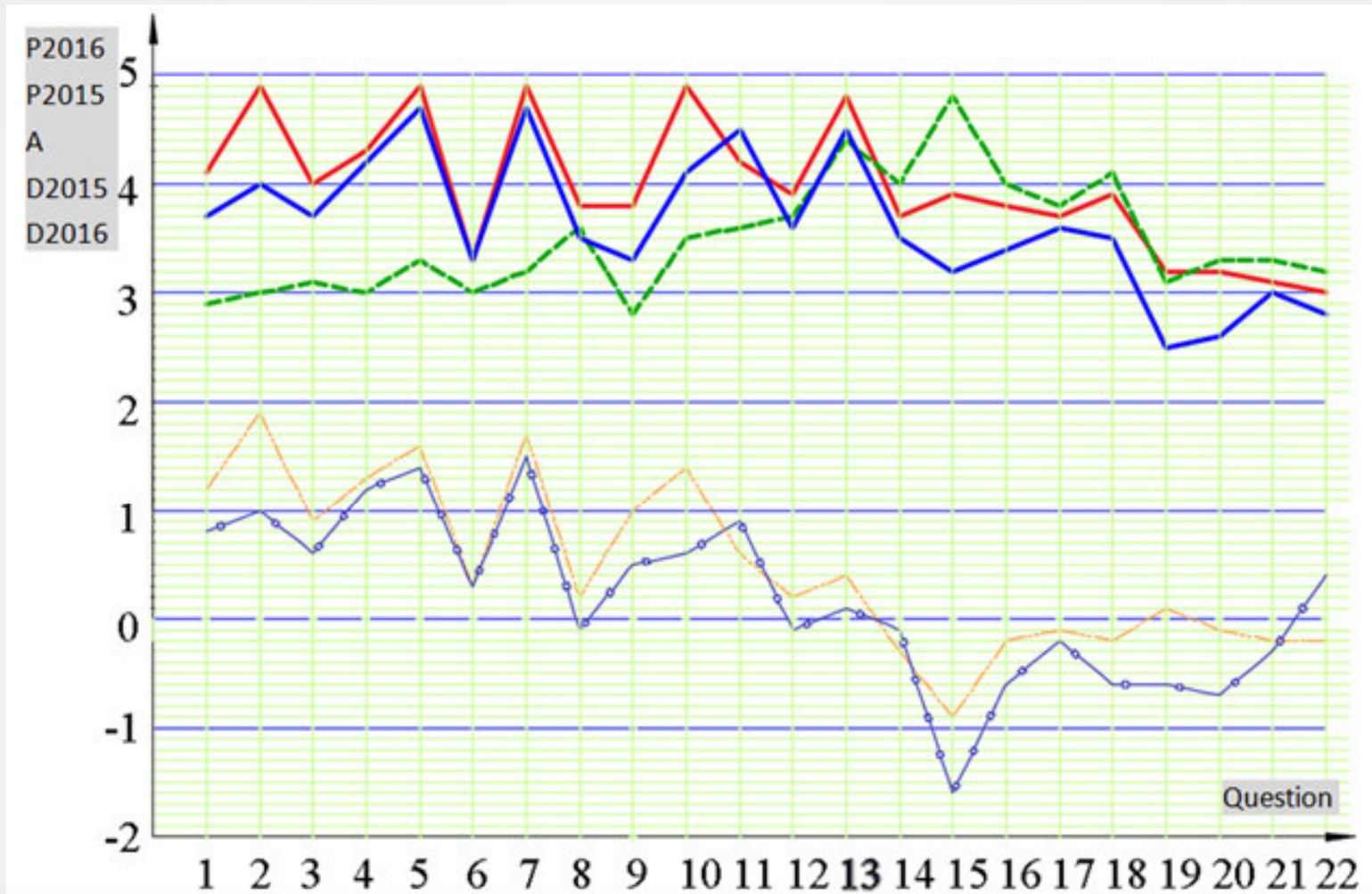


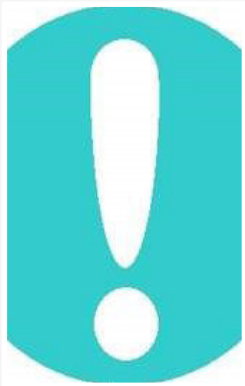
Fig. 2. Graph representation of average perception/average expectation

# Table 3. Average perception/expectation values

**Phase 2:** Calculation of average perceptions/expectations for each dimension of service quality (reliability, assurance, tangibles, empathy and solicitude).

Perception level		Expectation level				SQ=P-E
Perception average values		Average perception	Average expectation	Expectation average values		
Reliability	4,440	4,1	2,9	Reliability	3,06	1,380
		4,9	3,0			
		4	3,1			
		4,3	3			
		4,9	3,3			
Assurance	3,950	3,3	3,0	Assurance	3,150	0,800
		4,9	3,2			
		3,8	3,6			
		3,8	2,8			
Tangibles	4,450	4,9	3,5	Tangibles	3,800	0,650
		4,2	3,6			
		3,9	3,7			
		4,8	4,4			
Empathy	3,800	3,7	4,0	Empathy	4,140	-0,340
		3,9	4,8			
		3,8	4,0			
		3,7	3,8			
		3,9	4,1			
Solicitude	3,125	3,2	3,1	Solicitude	3,225	-0,100
		3,2	3,3			
		3,1	3,3			
		3	3,2			

**Phase 3.** One calculates the difference between the average perception and average expectation for each dimension of service quality. (Table 3).

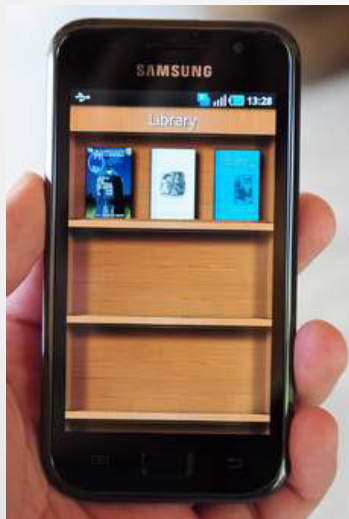


It appears that there is an improvement compared to 2015. Nevertheless, particular care still needs to be given to issues of *solicitude and empathy*.

# Example of users feedback

From the analysis of questionnaires, some of the users' complaints seem to suggest the need for:

- ✓ improved internet connection (more efficient location of Internet outlets);
- ✓ longer lasting/more durable reader permits;
- ✓ more internet cables;
- ✓ switch to Wi-Fi connection;
- ✓ internet supply in individual cabins;
- ✓ more efficient air-conditioning in reading rooms during summer;
- ✓ more lecture halls opened during the exam session;
- ✓ more kindness from the staff;
- ✓ shorter time for processing doctoral theses.



# Conclusions

The analysis of users' satisfaction is the basis for finding procedures of continuously improving service quality. One approach needed to ensure continuous improvement of user satisfaction is the use of the "Conceptual Model of Service Quality".

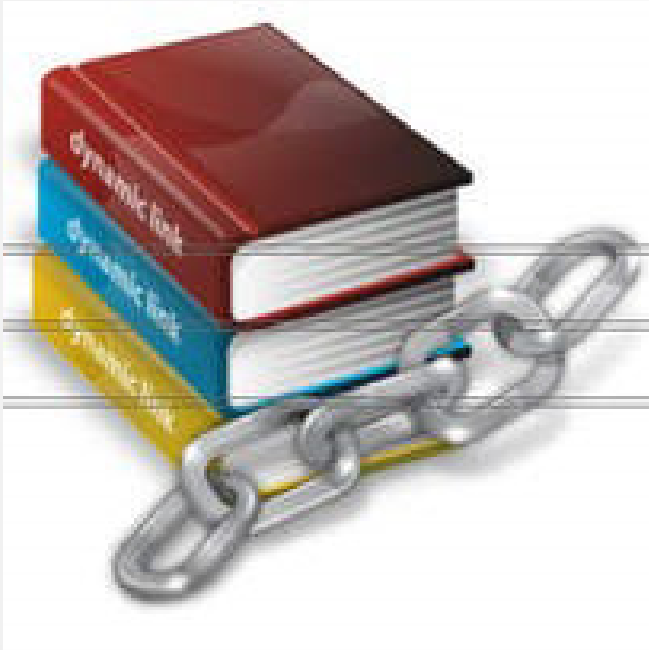
The degree of user satisfaction can be measured by different methods. Example: SERVQUAL questionnaires.

The Quality management system should take into account the issue of human resources commitment in:

- creating an appropriate environment;
- considering human relations as an essential part of service quality (user-person in direct contact with the user);
- recognizing the importance to be given to the user's perception of the image, culture and achievements of the library;
- developing the qualification and capability of library employees;
- motivating employees.







THANK YOU FOR YOUR  
ATTENTION!



*Next Step for Romanian Libraries  
Automation*

PhD. Eng. Doina Ostafe

# Agenda

## **Romanian libraries automation status**

Online catalogs – OPAC

Collectives catalogs

Digital libraries

Electronic resources

Discovery & Delivery

Romanian libraries resources in foreign databases

Summary

## **Next generation Library management Services**

Alma

Primo

## Romanian libraries automation status

Where to find information about Romanian libraries automation status:

- Sites of the libraries
- ABR site (ABR – Asociația Bibliotecarilor din România – Romanian Librarian Association)
  - [Library Automation Section](#)

BIBLIOTECI ROMÂNEȘTI - cataloage online

Situația informatizării bibliotecilor



**Tabele cu bibliotecile românești:** adresele paginilor web, a Opac-urilor, sistemele de bibliotecă utilizate.

(În cazul în care informațiile din tabel nu mai sunt actuale, vă rugăm să ne informați pentru a face modificările necesare)



„Catalogul Structurilor Infodocumentare din România”, realizat de Biblioteca Națională a României

## Romanian libraries automation status (cont.)

### ILS

- Romanian National Library,
  - All the libraries of important universities, Academy,
  - All of county libraries, some municipal libraries
- have an ILS and build their own bibliographic catalog for their print collections.

### Digital libraries

- Some of them start make digitization of the heritage collections and are trying also to built digital libraries.

### Collective catalogs

- [ROLiNeST](#)
- [Biblio.ro](#)

### Publishing in foreign databases

- There are some examples of contributors to Europeana
- 1 (BCU Cluj) library is publishing its catalog to OCLC

# ONLINE catalogs & Digital Libraries new page

## [ABR site](#)

More information, URL for OPACS, Virtual Common Catalogs, digital libraries:



**ABR** ASOCIATA BIBLIOTECARILOR DIN ROMANIA

caută

Acasă | Înscrisere în ABR | Ședințe Consiliu de Conducere | Formare profesională | Cod deontologic | Arhivă documente | Blog | Forum ABR | Site vechi | Contact | 2% | RRBSI | **Catoloage online**

Statut  
Conducerea ABR  
Filiale ABR

### Sectiuni

- [Achiziție și dezvoltarea colecțiilor](#)
- [Biblioteca și societatea](#)
- [Carte vechi, Conservare, Restaurare](#)
- [Catalogare, clasificare, indexare](#)
- [Comunicarea documentelor și împrumut interbibliotecar](#)
- [Cultura informației](#)
- [Informatizare-Digitizare](#)
- [Legislație de bibliotecă și perfecționare profesională](#)
- [Periodice](#)
- [Profesori documentariști](#)
- [Statistică și evaluare](#)
- [Tehnici pedagogice în bibliotecă](#)

### Publicații

Revista Română de Biblioteconomie și Știința Informării  
Monografii

### Conferințe Naționale

## Cataloghe online

scris de doina otafe

### BIBLIOTECI ROMĂNEȘTI - cataloage online

#### Cataloghe colective

[ROLIneST](#) ⓘ

Primul portal în știință și tehnologie care permite căutarea simultană în baze de date bibliografice, realizate în sisteme de bibliotecă diferite, în biblioteci digitale precum și în alte resurse electronice online - reviste, baze de date, științifice

[Biblio.ro](#) ⓘ

Un portal, care având la bază sistemul de bibliotecă TinRead, reunește aproape toate bibliotecile județene, câteva biblioteci municipale și universitare.

[Cataloghele Bibliotecilor universitare](#)

[Cataloghele Bibliotecilor Publice](#)

[Biblioteci digitale](#)

[< Anterior](#)   [Următor >](#)

### Noutăți

- [Dialogul Științelor și Artelor și la Biblioteca USV](#)
- [Calendar activități 2017](#)
- [CARTEA – REFERENȚIAL AL FORMĂRII](#)
- [REVISTA ROMÂNĂ DE BIBLIOTECONOMIE ȘI ȘTIINȚA INFORMĂRII](#)
- [Plan de acțiuni al Secțiunii Tehnici Pedagogice în Bibliotecă](#)

### login

Utilizator

Parolă

Ține-mă minte

[Ai uitat parola?](#)

[Ai uitat utilizatorul?](#)

[Creeți un cont](#)

## Coective catalogs:

- [ROLiNeST](#)
- [Biblio.ro](#)

## [University Libraries Catalogs](#)

## [Public Libraries Catalog](#)

## [Digital libraries](#)

# ROLiNeST Portal

## ROLiNeST - Romanian Library Network in Science and Technology

- **Metasearch portal** for heterogeneous
- **Virtual collective catalog** – the University of Medicine and Pharmacy of Romania, academia, National and Regional libraries and two Digital Libraries

ROLiNeST  
Romanian Library Network Science & Technology

Căutare Rapidă | Căutare bază de date | Caută revista electronică | Metasearch

Căutare | Rezultate

### Căutare Rapidă

Simplu / Avansat

QuickSets

Biblioteci universitare și de cercetare

Biblioteci românești  
Bibliotecile românești care ...

MetaLib® Căutare Rapidă - Detalii ale bazei de date - G...

rolinest.edu.ro/V/GMVQJR2MHA47PS5GND6GD2J4STJDX22B9?

### Set: Biblioteci românești

Conținut set 16 baze de date [Înapoi la Căutare Rapidă](#)

Bibliotecile românești care sunt integrate în ROLiNeST

<a href="#">Biblioteca Academiei Române București</a>	(i)
<a href="#">Biblioteca Academiei Române Iași</a>	(i)
<a href="#">Biblioteca Centrală Universitară Carol I București</a>	(i)
<a href="#">Biblioteca Centrală Universitară Carol I București - Catalogul România</a>	(i)
<a href="#">Biblioteca Centrală Universitară Eugen Todorean Timișoara</a>	(i)
<a href="#">Biblioteca Centrală Universitară Lucian Blaga Cluj - Napoca</a>	(i)
<a href="#">Biblioteca Centrală Universitară Mihai Eminescu Iași</a>	(i)
<a href="#">Biblioteca Institutului Național de Fizica Nucleară Horia Hulubei</a>	(i)
<a href="#">Biblioteca Metropolitană București</a>	(i)
<a href="#">Biblioteca Națională a României</a>	(i)
<a href="#">Biblioteca Universității Politehnica București</a>	(i)
<a href="#">Biblioteca Universității Politehnica Timișoara</a>	(i)
<a href="#">Biblioteca Universității Tehnice Gheorghe Asachi Iași</a>	(i)
<a href="#">Biblioteca Universității Tehnice Cluj-Napoca</a>	(i)
<a href="#">Biblioteca Digitală a Bucureștilor</a>	(i)
<a href="#">Biblioteca Digitală Națională</a>	(i)

RVL

Guest



## ROLiNeST catalogs

ROLiNeST – virtual catalog made from:

- The **bibliographic catalogs** (Aleph, Alephino, Liberty, VubisSmart):

[Biblioteca Națională a României](#)

[Biblioteca Academiei Române București](#)

[Biblioteca Academiei Române Iași](#)

[Biblioteca Centrală Universitară Carol I București](#)

[Biblioteca Centrală Universitară Carol I București - Catalogul România](#)

[Biblioteca Centrală Universitară Eugen Todoran Timișoara](#)

[Biblioteca Centrală Universitară Lucian Blaga Cluj - Napoca](#)

[Biblioteca Centrală Universitară Mihai Eminescu Iași](#)

[Biblioteca Institutului Național de Fizica Nucleară Horia Hulubei](#)

[Biblioteca Universității "Lucian Blaga", Sibiu](#)

[Biblioteca Universității Politehnica București](#)

[Biblioteca Universității Politehnica Timișoara](#)

[Biblioteca Universității Tehnice Cluj-Napoca](#)

[Biblioteca Universității Tehnice Gheorghe Asachi Iași](#)

[Biblioteca Universității Ștefan cel Mare Suceava](#)

[Biblioteca Metropolitană București](#)

- and 2 **digital libraries** (DigiTool):

[Biblioteca Digitală a Bucureștilor](#)

[Biblioteca Digitală Națională](#)

## ROLiNeST – Metasearch electronic resources

### Results by Databases

Search for "internet" found 2591900 results

Database Name	Status	Hits	
EBSCO A-Z	Search failed		
ProQuest Central (PQ)	DONE	259874	<a href="#">View</a>
RomDoc Document Server - OAI	DONE	3	<a href="#">View</a>
ScienceDirect - All Content (Elsevier)	DONE	50006	<a href="#">View</a>
SpringerLink (MetaPress)	MetaLib cannot retrieve the number of hits from the target		
Springer Book	DONE	338	<a href="#">View</a>
JSTOR Arts & Sciences I Collection	DONE	9090	<a href="#">View</a>
JSTOR Arts & Sciences II Collection	DONE	9748	<a href="#">View</a>
Criminal Justice Periodicals (PQ)	DONE	3640	<a href="#">View</a>
Current Contents (ISI)	Failed connecting to host		
Dissertations & Theses (ProQuest)	DONE	2259201	<a href="#">View</a>
Web of Science (ISI)	Failed connecting to host		
<b>Combined Results</b>	<b>First 293 records</b>	<b>2591900</b>	<a href="#">View</a>

## Tinread based collective catalog – public libraries generally

The screenshot displays the Tinread search interface. At the top left is the Tinread logo. Below it is a search bar with the text "Termen de căutat". To the right of the search bar are two buttons: "CAUTĂ" and "RESETARE". Below the search bar are several dropdown menus for search criteria: "Toate titlurile", "și", "Autori - Toți", "și", "Subiecte", and "Sortare după Relevanța (A-Z)". There is also an "Opțiuni" link and a small "T" icon.

Below the search bar is a section titled "Surse de căutare" (Search sources). It contains a list of libraries with checkboxes next to their names:

- Sisteme TinREAD
- Biblioteca ICEM Tulcea
- Biblioteca Jud. Alba
- Biblioteca Jud. Arad
- Biblioteca Jud. Argeș
- Biblioteca Jud. Bacău
- Biblioteca Jud. Bihor
- Biblioteca Jud. Bistrița-Năsăud
- Biblioteca Jud. Brăila
- Biblioteca Jud. Buzău
- Biblioteca Jud. Constanța
- Biblioteca Jud. Călărași
- Biblioteca Jud. Dolj - Portal Județean
- Biblioteca Jud. Galați
- Biblioteca Jud. Giurgiu
- Biblioteca Jud. Hunedoara
- Biblioteca Jud. Iași
- Biblioteca Jud. Mehedinți
- Biblioteca Jud. Prahova
- Biblioteca Jud. Satu Mare
- Biblioteca Jud. Sălaj
- Biblioteca Jud. Teleorman
- Biblioteca Jud. Timiș
- Biblioteca Jud. Tulcea
- Biblioteca Jud. Vaslui
- Biblioteca Jud. Vrancea
- Biblioteca Jud. Vâlcea
- Biblioteca Jud. Vâlcea
- Biblioteca Jud. Vâlcea

Below the list of libraries is a section titled "Căutările centrate pe utilizarea operatorilor logici" (Searches centered on the use of logical operators). It contains the following text:

Spre deosebire de *Căutarea simplă*, în cadrul *Căutării avansate* utilizatorii dispun de facilitățile de a combina mai mulți termeni și de a integra resurse variate (interne și externe) pentru a obține un rezultat cât mai amplu prin referințele afișate.

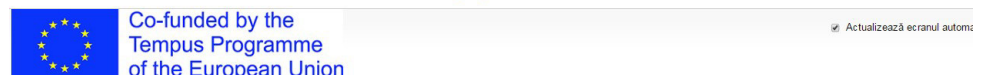
**Căutările centrate pe utilizarea operatorilor logici**  
 Câmpurile de căutare care se pot combina prin utilizarea operatorilor logici (booleani) oferă posibilitatea de a căuta oricare dintre următoarele elemente în combinații de unsprezece luate câte trei (ȘI logic, SAU logic, NU logic).  
 Elementele de căutare care pot fi combinate sunt:  
 ISBN/ISSN - număr standard internațional care identifică unic un titlu/ediție a unui document;  
 ISSN;  
 Subiecte;  
 Toate titlurile - oriunde se găsesc acestea în cadrul înregistrării;  
 Autorii - inclusiv coautorii;  
 Nume de persoană - ca subiect al lucrării (recunoscută și ca "despre...");  
 Limba documentului;  
 Cota - locul în care se află documentul;  
 Numărul de inventar;  
 Domeniul din care face parte documentul (clasificarea).  
 Exemplu: :  
 Dacă dorim să căutăm toate romanele din seria *Dună scrișe* de *Frank Herbert*:

1. Completați termenul de căutat *Dună* în dreptul primului câmp de căutare care are selectat criteriul *Toate titlurile*;
2. Selectați opțiunea *ȘI logic* în primul câmp de pe rândul al doilea;

# Moldavian Libraries

- A shared catalogs of 7 universities libraries
  - 1 bibliographic [ALEPH](#) MARC21 database
  - 7 administratives libraries

- 7 Digital libraries – Dspace
- [Primo - discovery & delivery](#)



# Moldavian Libraries Consortium



- Universitatea de Stat de Medicină și Farmacie „Nicolae Testemițanu” din Republica Moldova
- Universitatea de Stat din Moldova
- Academia de Studii Economice a Moldovei
- Universitatea Agrară de Stat din Moldova
- Universitatea Tehnică a Moldovei
- Universitatea de Stat „Alecu Russo” din Bălți
- Universitatea Pedagogică de Stat „Ion Creangă” din Chișinău



# Digital Libraries

## Romanian Digital Libraries (DigiTool, DSpace, Greenstone, Aleph-ADAM):

[Biblioteca Centrală Universitară „Carol I” București - Biblioteca Digitală RESTITUTIO](#)

[B.J. Cluj - Contribuția românească la Europeana](#)

[Bib. Acad Rom - arhiva Traian Vuia](#)

[Bib. Acad Rom - manuscrise Cioran](#)

[Bib. Acad Rom - manuscrise Eminescu](#)

[Biblioteca Digitala a Bucurestilor](#)

[Biblioteca Digitală a BCU Cluj](#)

[Biblioteca Digitală a Bibliotecii Județene ASTRA SIBIU](#)

[Biblioteca Digitală a Bib. Univ. Sibiu Lucian Blaga](#)

[Biblioteca Digitală a UPB - Romdoc](#)

[Biblioteca Digitală Națională](#)

[Biblioteca Universității "Dunarea de Jos", Galați - ARTHRA Digital Repository](#)

# Romanian libraries resources in foreign databases



Lucian Blaga Central University Library, Cluj-Napoca  
(Aleph Catalog & Digital Library)



[Biblioteca Academiei Române](#)  
[Arhivele Naționale Istorice Centrale](#)  
[Library of the "Lucian Blaga" University of Sibiu](#)  
[National Library of Romania](#)  
[Lucian Blaga Central University Library, Cluj-Napoca](#)  
[EuropeanaLocal Romania](#)



[Biblioteca Academiei Române](#)



# OCLC - Lucian Blaga Central University Library, Cluj-Napoca

Library exports its own bibliographic records, 2-3 times /year to OCLC

This site uses cookies. By continuing to use the site, you are agreeing to OCLC's placement of cookies on your device. [Find out more here.](#)



[Advanced Search](#) [Find a Library](#)

[<< Return to Search Results](#)

[Add to list](#) [Add tags](#) [Write a review](#) Rate this item: ☆☆☆☆☆



## Catalogul manuscriselor filosofice din colecțiile BCU "Lucian Blaga" : (sec. XVII-XX)

Author: [Emilia Mariana Soporan](#)  
Publisher: Cluj-Napoca : Presa Universitară Clujeană, 1999.  
Series: [Philobiblon](#)  
Edition/Format: Print book : Romanian [View all editions and formats](#)  
Database: WorldCat  
Rating: ☆☆☆☆☆ (not yet rated) [0 with reviews - Be the first.](#)  
Subjects: [Biblioteca Centrală Universitară "Lucian Blaga" \(\)](#)  
[Manuscrise -- Cataloage.](#)  
[Filosofie -- Cataloage -- Manuscrise.](#)  
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**RAFINEAZĂ CĂUTARE**

Per page: 12 **GRID** **LIST**

1 - 12 of 26 results

**COLECȚII** ▲

- All Items
- Art
- Fashion
- Music

**FIȘIER MEDIA** ▲

- Imagine (26)
- Text (9,763)

**[Studiu compozițional] | Melka, Venceslav**

Stampe XXV/93 g V. Melka. - [S. l., s.a.]. - Stampă : creion ; 195x275 mm. Colecția Muzeului Ardelean. - Ex-libris tampon.BCU Cluj.



Desen

**Vezi la Lucian Blaga Central University Library, Cluj-Napoca, Romania** ↗

🖼 Imagine

- [EuropeanaLocal Romania \(6,840\)](#)
- [Biblioteca Județeană "Panait Istrati" Brăila \(2,424\)](#)
- [Timis County Library \(1,442\)](#)
- [Images of Old Cluj \(686\)](#)
- [Biblioteca Județeană „V.A. Urechia” Galați \(501\)](#)
- [Dolj County Library \(372\)](#)
- ["Octavian Goga" Cluj County Library \(282\)](#)
- [Cluj County Library \(281\)](#)
- [Cluj County Center for the Preservation of Traditional Culture \(199\)](#)
- [Arhivele Naționale, Serviciul Județean Cluj \(194\)](#)
- [EuropeanaLocal Romania \(152\)](#)
- [Hunedoara County Library \(147\)](#)
- [Cluj County Centre for the Preservation and Promotion of Traditional Culture \(110\)](#)
- [Aman Library \(30\)](#)
- [Biblioteca Județeană "G. T. Kirileanu" Neamț \(8\)](#)
- [Books about Cluj County \(8\)](#)
- [Museum of Dacic and Roman Civilisation in Deva \(4\)](#)

# NALIS -Biblioteca Academiei Române



Click to knowledge

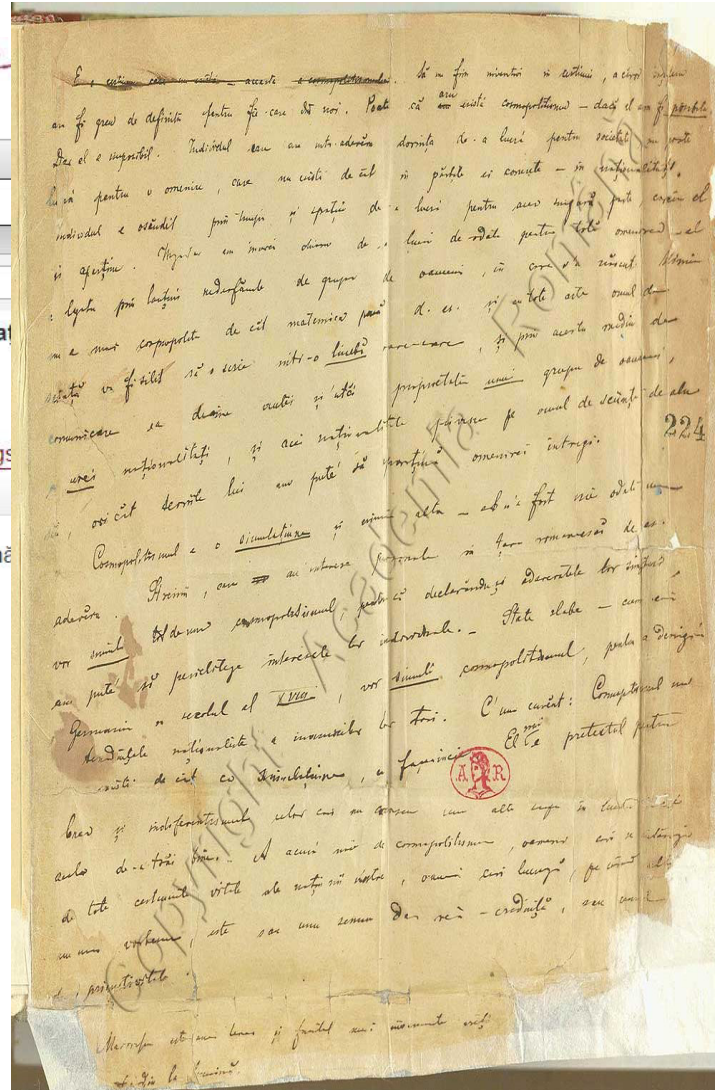
Publicistică

All items with my exact phrase

Din ședințele Societății "România Jună". Naț. Eminescu, Mihai  
decembrie 1871  
**Online access**

Online resource **Details** Reviews & Tags

**Title:** Din ședințele Societății "România Jună"  
**Author:** Eminescu, Mihai  
**Subjects:** Publicistică  
**Creation Date:** decembrie 1871  
**Format:** Ms. rom. 2257: f. 224r - 236r  
**Language:** Romanian



Library Search | Language: En

Search

supported by



AMERICA FOR ROMANIA  
FOUNDATION  
Фондация Америка за

There are 2 versions of th

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## Links

- > This item in the Romanian Academy Library Catalog
- > See the 224r Ms. rom. 2257, f. 224r
- > See the 225r Ms. rom. 2257, f. 225r
- > See the 226r Ms. rom. 2257, f. 226r
- > See the 227r Ms. rom. 2257, f. 227r
- > See the 228r Ms. rom. 2257, f. 228r
- > See the 229r Ms. rom. 2257, f. 229r
- > See the 230r Ms. rom. 2257, f. 230r
- > See the 231r Ms. rom. 2257, f. 231r
- > See the 232r Ms. rom. 2257, f. 232r
- > See the 233r Ms. rom. 2257, f. 233r
- > See the 234r Ms. rom. 2257, f. 234r
- > See the 235r Ms. rom. 2257, f. 235r
- > See the 236r Ms. rom. 2257, f. 236r

### Consortium Anelis+

Subscriptions to **Electronic Resources** for almost all Romanian Universities.

2 main Romanian vendors:

- Romdidac - for EBSCO
- E-nformation - for all others ER

## Discovery & delivery

Discovery & delivery solutions for heterogeneous information resources>:

- **EDS** – BCU Cluj (has annually subscription)
  - For Electronic resources subscribed via Anelis Plus consortium
  - For Aleph catalogs (export data base monthly) nor in real time, no connection with
  - Access from everywhere
- **Summon** - from e-nformation together with ER annually subscription
  - Metasearch in all subscribed ER, less EBSCO electronic resources

# Summon – ANELIS - metasearch

Acces National Electronic la Literatura Stiintifica de Cercetare - ANELIS

E-JOURNAL PORTAL

[eJournal Portal](#) [360 Link](#) [Summon - ANELIS 1](#)

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Title contains all words ▾

**Browse** e-journals by title

[0-9](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [Other](#)

**Browse** e-journals by subject

**Browse** e-journals by medical subject:

**Search** for keywords in e-resources

- [Directory of Open Access Journals](#)
- [Emerald Management 150](#)
- [Engineering Village](#)
- [GeoRef](#)
- [IOP Publishing Current Journals Archive](#)
- [Nature Journals Online](#)
- [NESLi2 Cambridge University Press Journals - Full Collection](#)
- [Oxford Journals Full Collection 2012](#)
- [ProQuest Central](#)
- [ProQuest Dissertations & Theses Open](#)
- [SAGE Humanities and Social Science Package 2012](#)
- [Science Magazine](#)

## Summary – Romanian libraries

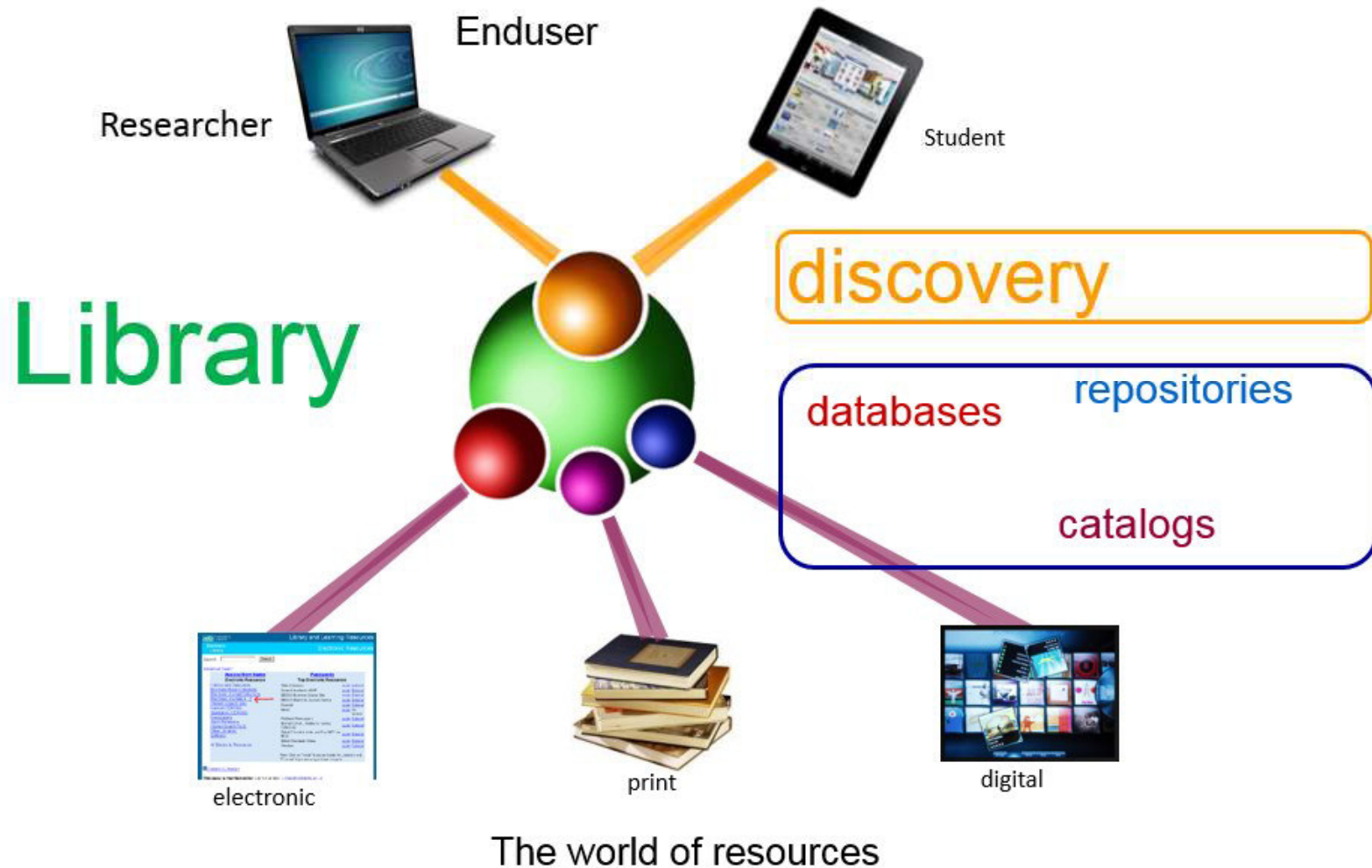
- Have an **ILS** or a **collection of software & services**:
  - ILS (Aleph, Alephino, Vubis, Liberty, Tinread, Qulto, Koha) for print collections
  - Digital library software –for digital documents (DigiTool, Dspace, Greenstone, Aleph-ADAM)
  - Discovery & delivery for access to
- **Local installation** - Each library has:
  - its own server(s)
  - its own ILS
  - its IT staff – (difficult to keep because less salary that in private company)
- **Old webOPACs** – for print resources
- Generally **no solution for searching in all** library resources – print, digital electronic
- **2 Virtual collective catalogs**:
  - ROLiNeST
  - Biblio.ro
- **Accessing to electronic resources** direct or via:
  - EDS
  - Summon



## Summary – Romanian libraries

- No one **national shared catalog** - redundant original cataloguing
- No unique **Romanian digital library**
- No **unique access point** to all Romanian information resources
- No **off campus** access to ER
- No connection with **teaching, e-learning, research**, or other university systems
- Not too much **collaboration** and **share information**
- **Too many interface** for staff
- **Too many interfaces** for end users
- **Multiply** effort, data and money
- No **mobile interface** for searching library information resources

# Library Automation Components



## Library needs - Next generation library management service

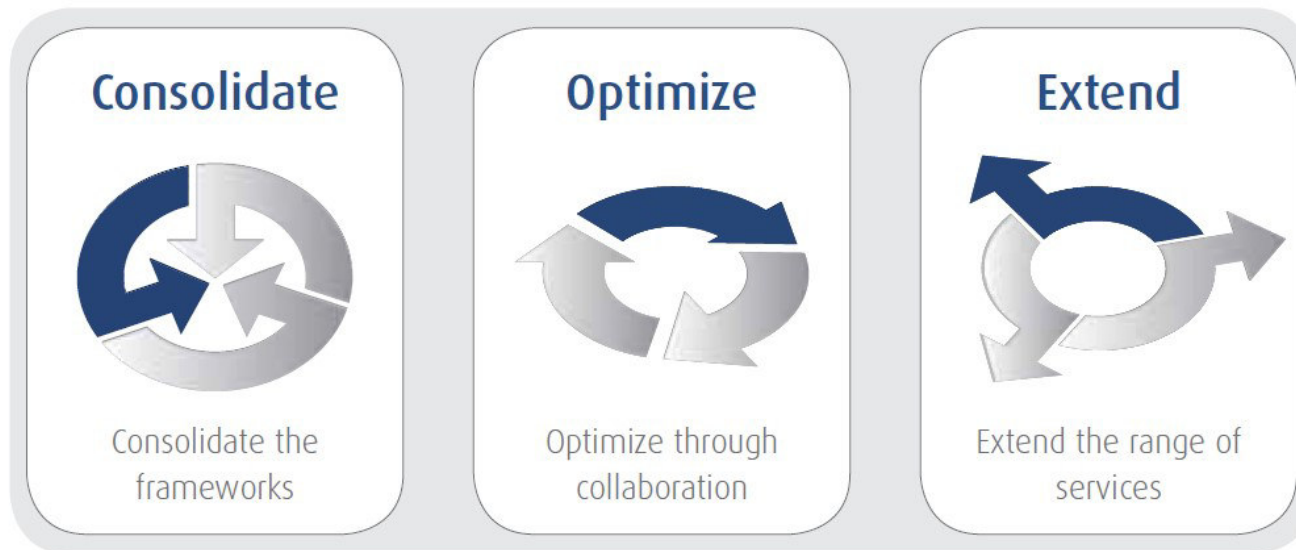
- **URM** - Unified Resource Management
- **Multiple** metadata schema
- **Sharing** resources, data, workflow
- **Collaboration**, cooperation, sharing
- **Unified access** to all collections
- **Discovery & Delivery** solution for all resources and features like facets, tags, recommendation
- **Open standards**
- **Open system** architecture
- Service-Oriented Computing (**SOA**)
- Service-Oriented Architectures (**SOA**)
- **Mobile** compatibility
- **Cloud** Computing



**Alma** - a next generation library management service:

- is a true **unified solution**
- that supports the entire suite of **library operations**: selection, acquisition, metadata management, digitization, and fulfillment
- for the full spectrum of **library materials**, regardless of **format** or **location**.

- **Consolidate:** unify the disparate systems today's libraries **manage** for electronic, digital and print resources
- **Optimize:** optimize workflows through shared data and **collaborative services** as well as a **cloud-based infrastructure**
- **Extend:** re-direct resources to focus on extending library **services** within and outside their institutions in direct **support of teaching and research** goals

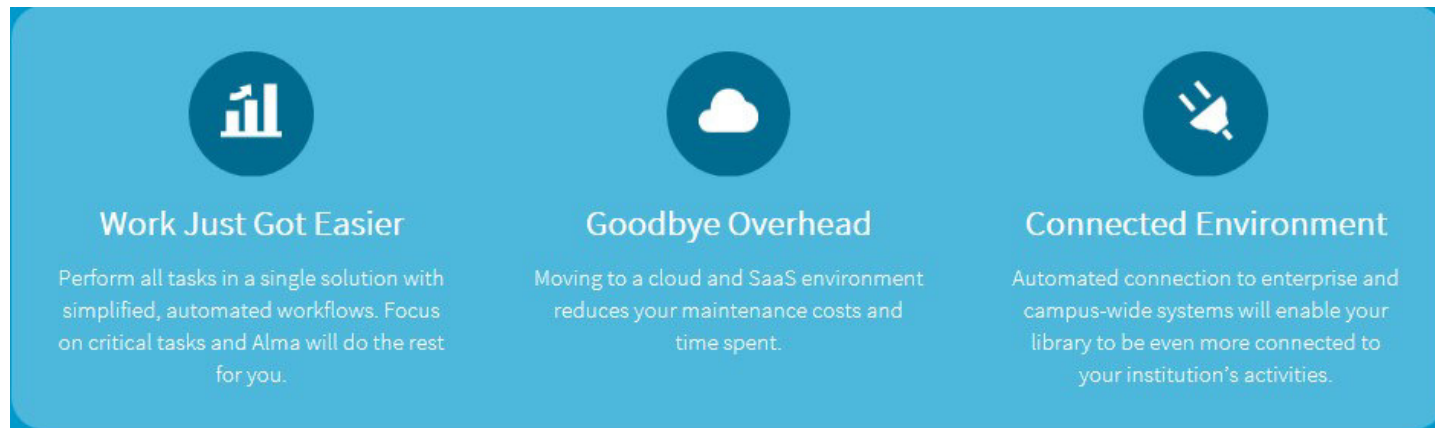


Alma connects the entire suite of library operations  
for the full spectrum of library materials



- User-driven collection development
- Cross-format selection
- Combined acquisition and activation
- Multi-format metadata management
- Digitization on demand
- Usage-driven evaluation & renewal
- Overlap analysis – print, electronic & digital
- Unified fulfillment – print, electronic & digital
- Legal deposit of digital materials
- Course reserves management

- [Ten Reasons Why Ex Libris Alma is the Best Next Gen Solution](#)
- videos:
- [Alma: Next-generation library](#)
- [Alma for every librarian - Improve your daily routine](#)



**Work Just Got Easier**  
Perform all tasks in a single solution with simplified, automated workflows. Focus on critical tasks and Alma will do the rest for you.

**Goodbye Overhead**  
Moving to a cloud and SaaS environment reduces your maintenance costs and time spent.

**Connected Environment**  
Automated connection to enterprise and campus-wide systems will enable your library to be even more connected to your institution's activities.

See Alma in Action

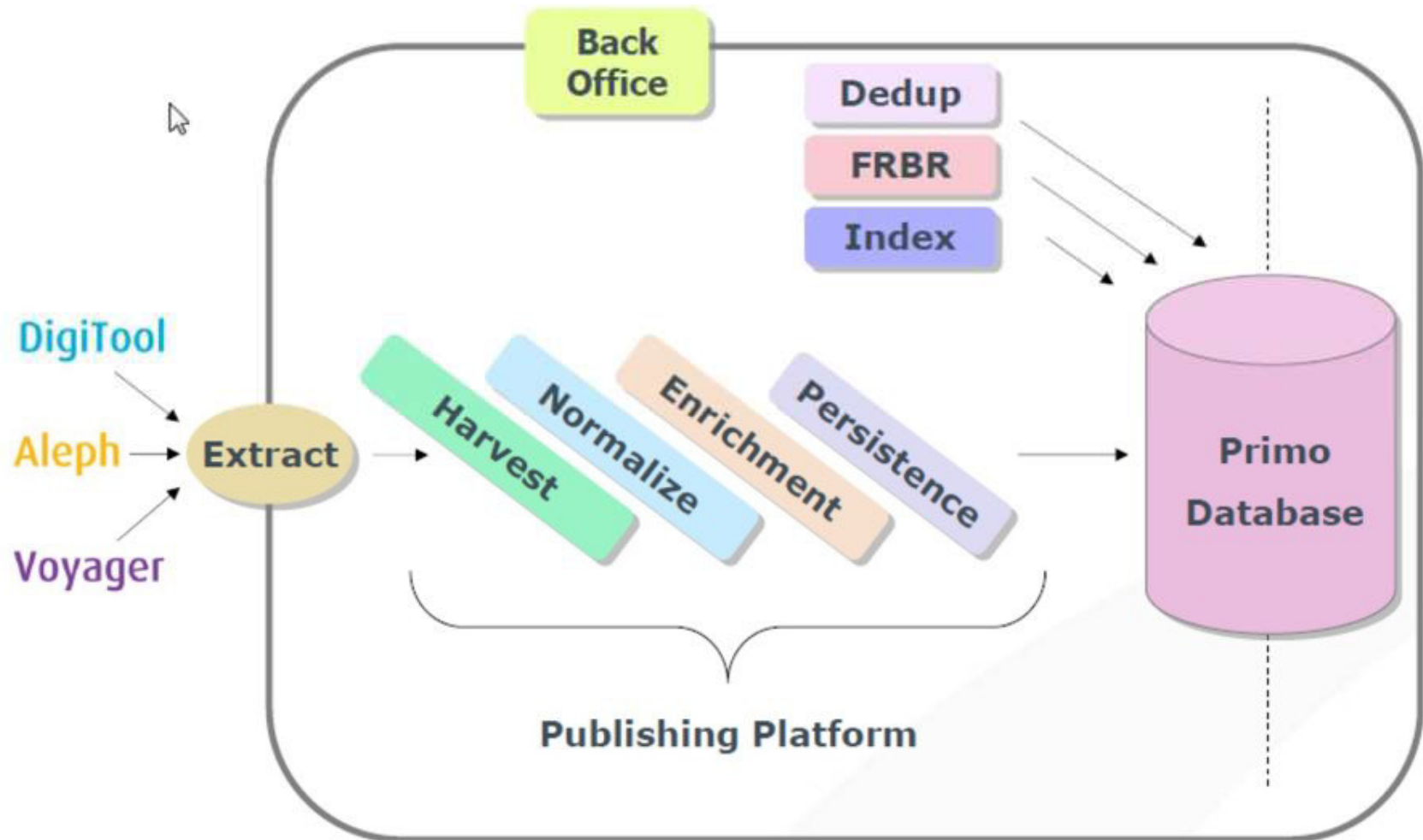
- **Ex Libris Primo**® provides a fast, comprehensive, and personalized discovery solution with the intuitive user experience library patrons have come to expect.
- A **single search interface** provides a gateway to a wealth of scholarly content, including print, electronic and digital collections.
- Primo's sophisticated **search and relevancy ranking** algorithm ensures the most relevant results, based on the context of the search and the user's profile.
- Serendipitous discovery and exploration using automated **recommendations, citation trails, and virtual browsing**.
- Discovery on-the-go from any device through an intuitive, **mobile**-ready user interface.
- **Personalized ranking**, enabling users to set their discipline and search preferences to get the most relevant results
- **Flexible delivery options**, including subscriptions, patron-driven acquisition, and pay-as-you-go
- **Complete neutrality** in the exposure of content, irrespective of the content provider.





## Primo Central Index

- The **Primo Central index** is a mega-aggregation of hundreds of millions of **scholarly e-resources** of global and regional importance.
- These include: **journal articles, e-books, reviews, legal documents** and more that are harvested from primary and secondary publishers and aggregators, and from open-access repositories.
- Ex Libris works with the [world's leading providers](#) of global and regional information to benefit its customer community.

# How works Primo



## Colecțiile SOLO Oxford [\(SOLO online\)](#)



Hi Guest [e-Shelf](#) [My Account](#) [Sign On \[ Oxford SSO non-Oxford members \]](#)

[New Search](#) [OxLIP+](#) [OU e-Journals](#) [Bodleian Libraries](#) [Subjects & Libraries](#) [Tags](#) [Feedback](#) [Help](#)

[Oxford Collections](#) [Articles & More](#) [Electronic Legal Deposit](#) [Search Everything](#)  [Search](#) [Advanced Search](#)

Limit your search: [All items](#) that contain my query words anywhere in the record

### Refine your results

Show only:  
[Online Resources \(38\)](#)  
[Physical Items \(286\)](#)

Topic  
[Netherlands \(19\)](#)  
[Great Britain \(16\)](#)  
[Economic forecasting \(13\)](#)  
[Astrology and psychology \(12\)](#)  
[Economic indicators \(11\)](#)  
[Show 195 more](#)

Library  
[All Souls College Library \(4\)](#)  
[Ashmolean Museum Library \(1\)](#)  
[At Reading Room: Chinese Studies \(1\)](#)  
[Balfour Lib \(Pitt Rivers Mus\) \(1\)](#)  
[Bodleian History Faculty Library \(2\)](#)  
[Show 46 more](#)

Language  
[English \(182\)](#)  
[Dutch \(65\)](#)  
[French \(33\)](#)  
[German \(26\)](#)  
[Latin \(8\)](#)  
[Show 15 more](#)

318 Results for All libraries/collections

Sorted by: Relevance

1-10 Next

Show only [Online Resources \(38\)](#) | [Physical Items \(286\)](#)

[Add to e-Shelf](#) **Drama as literature**  
Veltfuský, Jiri.  
1977 | Lisse : Peter de Ridder Press | 95 p. ; 24 cm. | book  
Book [Find & Request](#) [Details](#) [Reviews & Tags](#) [More](#)

[Add to e-Shelf](#) **The central concepts of Navajo world view.**  
Witherspoon, Gary.  
1975 | Lisse : Peter de Ridder Press | 22 p. ; 24 cm. | book  
Book [Find & Request](#) [Details](#) [Reviews & Tags](#) [More](#)

[Add to e-Shelf](#) **Theses on the semiotic study of culture : as applied to Slavic texts**  
Lotman, Iŭ. M. (Īŭriĭ Mikhaĭlovich), 1922-1993  
1975 | Lisse : P. de Ridder Press | 29 p. : ill. ; 24 cm. | book  
Book [Find & Request](#) [Details](#) [Reviews & Tags](#) [More](#)

[Add to e-Shelf](#) **Press-telegram [electronic resource].**  
1957- | Long Beach, Calif. : H.H. Ridder | v. | journal  
Journal [View Online](#) [Details](#) [Reviews & Tags](#) [More](#)

[Add to e-Shelf](#) **Tunisia in the Kitab-i bahriye**  
Piri Reis, d. 1554? | Soucek, Svatopluk  
1976 | Lisse : Peter de Ridder Press | 172 p. : maps ; 24 cm. | book  
Book [Find & Request](#) [Details](#) [Reviews & Tags](#) [More](#)

## B.M.B. – lista documentelor găsite

The screenshot shows the Dacoromanica website interface. At the top, there is a header with the logo 'DACOROMANICA BIBLIOTECA DIGITALA A ROMANIEI' and a row of portraits. Below the header, there is a navigation bar with 'Vizitator', 'e-raft', 'Contul meu', and 'ă identificat'. A search bar contains the text 'Ionescu' and is set to 'Biblioteca Metropolitană București'. The search results are displayed in a list format, showing 920 results for 'Biblioteca Metropolitană București'. The results are sorted by 'Relevanță' and show the first 10 items. Each result includes a book cover, a star icon, the title, author, and publication details. The first result is 'Dobroga în pragul veacului al XX-lea : geografia matematică, fizică, politică, economică și militară' by Ionescu, M. D., published in 2010. Other results include 'O pagină din istoria masoneriei române' by Ionescu, Romeo (2012), 'Despre viața păstorească și agricolă în trecutul nostru' by Ionescu-Sachelarie, D. (2012), and 'Golful francezului' by Du Maurier, Daphné (2012). On the left side, there are filters for 'Rafinarea Rezultatelor mele', 'Creator', 'Subiect', and 'Tip resursă'.

**Dacoromanica** NOUTĂȚI (septembrie-octombrie) Periodicals Postcards

Vizitator e-raft Contul meu ă identificat

Căutare baze de date | Instrumente de căutare sugerate | Etichete (Tags) | A-Z | Ajutor | Limba: Română

Dacoromanica NOUTĂȚI (septembrie-octombrie) Periodicals Postcards

Ionescu Biblioteca Metropolitană București Căutare Căutare avansată

Subscribe to Library News feeds

**Rafinarea Rezultatelor mele**

**Creator**  
Rosetti, Constantin A. (1816-1885) (dir.) (186)  
Ionescu, Anghel (red.) (145)  
Stănescu, Eugen (4)  
Iorga, Nicolae (1871-1940) (3)  
Enache Ionescu, Otilia (3)  
Arată 15 mai mult

**Subiect**  
Agricultură (1)  
Bucharest (Romania) -- Newspapers -- 19th century (394)  
București (România) -- Publicații periodice -- Secolul 19 (279)  
Dobrogea (România) -- Geografie (1)  
Ionescu de la Brad, Ion (1818-1891) -- Biografii (1)  
Arată 15 mai mult

**Tip resursă**  
resurse text (919)  
Altele (1)

920 Rezultate pentru Biblioteca Metropolitană București Sortat după: Relevanță 1-10 Următorul

☆ Dobroga în pragul veacului al XX-lea : geografia matematică, fizică, politică, economică și militară  
Ionescu, M. D.  
București : Atelierele Grafice I. V. Socecu 2010  
Resurse Text  
Vizualizare Online Detalii Comentarii & Etichete Mai multe informații


☆ O pagină din istoria masoneriei române  
Ionescu, Romeo  
București : [s. n.] 2012  
Resurse Text  
Vizualizare Online Detalii Comentarii & Etichete Mai multe informații


☆ Despre viața păstorească și agricolă în trecutul nostru  
Ionescu-Sachelarie, D.  
București : Tiparul Universal 2012  
Resurse Text  
Vizualizare Online Detalii Comentarii & Etichete Mai multe informații

☆ Golful francezului  
Du Maurier, Daphné (1907-1989)  
București : Editura Vatra (Tiparul "Cartea de Aur") 2012  
Resurse Text  
Vizualizare Online Detalii Comentarii & Etichete Mai multe informații

# Căutare full text în datele din depozitul digital local

✕ Repository local Primo ▼ [Căutare](#) [Căutare avansată](#)  
[Căutare prin Răsfoire](#)

 **Personalize your results**  
[Edit](#)


 [rss](#)  
[☆ Adaugă pagina în e-raft](#)

**Căutări nou sugerate**

[Afișează cele mai bune articole bX](#) ▼

**1 Rezultate pentru Repository local Primo** Sortat după: Relevanță ▼

---

 [☆ Anuarul \[Școala Politehnică din Timișoara\]](#)  
Școala Politehnică din Timișoara 1920-1937  
**Disponibil la** Bibl. Centrală Reviste din Depozit (R 214 VB 12A)

Revistă

[Solicitare](#) [Locații](#) [Detalii](#) [Răsfoire virtuală](#)

---

**1 Rezultate pentru Repository local Primo** Sortat după: Relevanță ▼

# ADAM object – from local digital repository



## **Anuarul [Școala Politehnică din Timișoara]**

Școala Politehnică din Timișoara 1920-1937

● **Disponibil la** Bibl. Centrală Reviste din Depozit (R 214 VB 12A)

Revistă

[Solicitare](#) [Locații](#) [Detalii](#) [Răsfoire virtuală](#)

aleph.library.upt.ro/exlibris/aleph/a20\_1/apache\_media/6DRGRKCKENQXCHJ8E57ENK1EIRIKFC.pdf

6DRGRKCKENQXCHJ8E57ENK1EIRIKFC.pdf

2 / 46



## INTRODUCERE

Școala Politehnică din Timișoara își datorește existența stăruințelor depuse de Primăria Orașului, pentru a da acestui centru industrial și comercial care e Timișoara și aspectul cultural necesar unui oraș care a concentrat și vrea să păstreze toată viața provinciei Banatului. Pe lângă numeroasele școli primare, școli civile, licee, orașul trebuia să aibă și un așezământ de cultură superioară, și acela care s'a potrivit mai bine în culoarea locală a fost tocmai Școala Politehnică. De aceia nu se poate vorbi de Școala Politehnică fără a releva sprijinul puternic ce l'a primit din partea orașului.

Totuși eforturile acestuia care încep încă din 1907, n'au ajuns la nici un rezultat sub guvernul maghiar, și cu greu s'ar fi valo-

# Coperte din Google Books



## The Oxford history of Ireland

R. F Foster 1992

● Disponibil la Bibl. Centrală Raft Liber (IST2/OXF 619.597)

Carte

[Solicitare](#) [Locații](#) [Detalii](#) [Răsfoire virtuală](#)



## The Oxford history of Ireland

R. F Foster 1992

● Disponibil la Bibl. Centrală Raft Liber (IST2/OXF 619.597)

Carte

[Solicitare](#) [Locații](#) [Detalii](#) [Răsfoire virtuală](#)

Acțiuni

 IST2/OUT 653.884	 IST2/OXF 619.597	 Kenneth O Morgan; IST2/OXF 621.061	 Francisc Păcurariu; IST2/PAC 534.288
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« Anterior Următorul »








# Recommender Service



## bX Recommender Service

Usage based Scholarly Recommendations

The bX™ Recommender is a service that helps the users to discover relevant literature that they would not have found otherwise. Based on the **usage of millions of researchers** around the globe and starting from the article the user is looking at it checks what other articles were used together with it and displays a list of relevant articles.

 <p><b>Other users liked..</b></p> <p>bX Recommender</p>  <p>Watch the video!</p>	 <p><b>Hot in your subject</b></p> <p>Hot Articles</p>  <p>Also available on your mobile!</p>	 <p><b>Popularity Reports</b></p> <p>bX Most Popular Articles</p> <p>bX Journal Popularity Report</p>
--	--	---



# Articole bX (recomandate) din SOLO

SOLO SEARCH OXFORD LIBRARIES ONLINE

Hi Guest ☆ e-Shelf My Account Sign On [ Oxford SSO non-Oxford members ]

New Search OxLIP+ OU e-Journals Bodleian Libraries Subjects & Libraries Tags Feedback Help

Oxford Collections Articles & More Electronic Legal Deposit Search Everything What am I searching?  Search Advanced Search

UNIVERSITY OF OXFORD

Limit your search: All items that contain my query words anywhere in the record

## Expand My Results

Expand My Results

rss

2 Results for Primo Central

Sorted by: Relevance

Refined by: List of all Versions



☆  
Add to  
e-Shelf

### Making the paper: Joris De Ridder

Nature, 2009, Vol.459(7245), p.298 [Peer Reviewed Journal]

Nature, 2009, Vol.459(7245), p.298 | article

Article

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[Details](#)

[Reviews & Tags](#)

**[Recommendations](#)**

[More](#)

Recommendations exist

**bX** Users interested in this article also expressed an interest in the following:

About bX

1. Yaghi, Jeffrey [The pervasive chemistry of metal-organic frameworks](#) Chemical Society reviews 38.5 (2009) 1213-1214



2. [Anon] [Boom time for biomaterials](#). Nature Materials 8.6 (2009) 439



3. Sudik, Andrea C [A metal-organic framework with a hierarchical system of pores and tetrahedral building blocks](#) Angewandte Chemie 45.16 (2006) 2528-2533



4. O'Keeffe, Michael [Design of MOFs and intellectual content in reticular chemistry: a personal view](#) Chemical Society reviews 38.5 (2009) 1215-1217



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## Hot Articles from bX



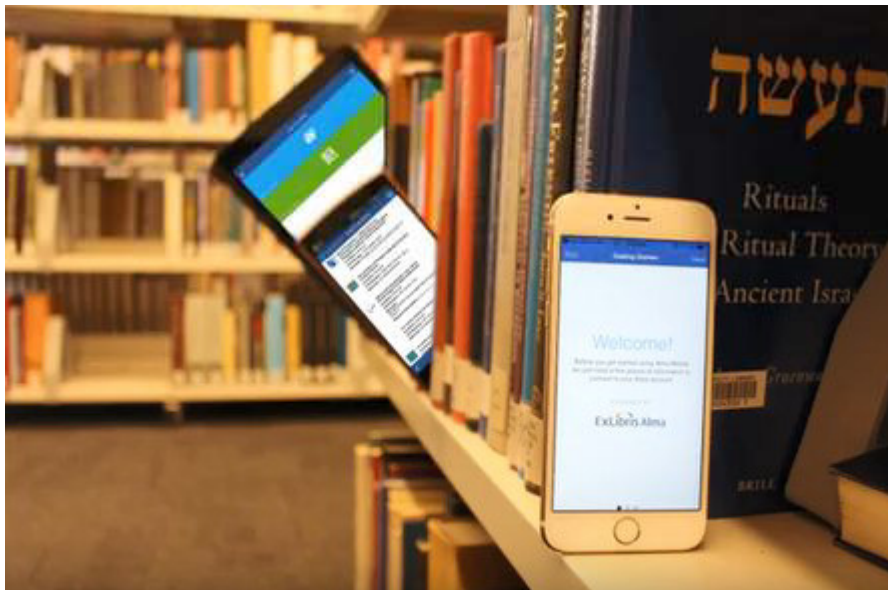
Hot Articles from **bX** is a new **free** usage-based service that shows you immediately, based on real usage data, what is hot in your subject.

Similar to the other [bX Usage-Based Services](#), the [bX Recommender](#), [Most Popular Articles](#), and [Journal Popularity Report](#) services, Hot Articles is based on usage data from millions of researchers across journals, publishers and platforms. It helps the users to discover articles that other users found interesting - in general and for a specific topic.

A screenshot of the 'Hot Articles' web interface. At the top, it says 'Hot Articles in: All Subjects' with a dropdown arrow, and 'April 2017' with a question mark icon. Below this, there are three article entries, each with a title and author/publication information. The first entry is 'Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being' by Ryan, Richard; The American psychologist (2000). The second is 'The five competitive forces that shape strategy' by Porter, Michael; Harvard business review (2008). The third is 'Self-efficacy: Toward a unifying theory of behavioral change' by Bandura, Albert; Psychological review (1977). At the bottom left is a 'More...' link. At the bottom right are three icons: 'Available on the App Store', 'ANDROID APP ON Google play', and the 'ExLibris bX' logo.

# Alma - Primo on Mobile

[Alma Mobile. Leave Your Desk. Download Now](#)



*A Primo results list viewed on Primo for mobile iPhone and Android interface*

## ALMA & Primo some users

- 2016 -The Libraries of the University of Cambridge Select Alma and Primo
- 2016 - [Harvard Library Selects the Ex Libris Alma Next-Generation Library Platform](#)

### Consortium:

- 2014 - WIN Library Network Selects Ex Libris - Alma
- 2015 - Österreichischer Bibliothekenverbund (OBV) network
- 2016 - implementation of Alma in the Renouvaud network in Switzerland
- 2016 – Washington Research Library Consortium (WRLC) Alma<sup>®</sup> library management service and Primo<sup>®</sup> discovery
- 2017 – Arizona Universities Library Consortium (AULC) Alma<sup>®</sup>, Primo<sup>®</sup> and bX<sup>®</sup> scholarly recommender service

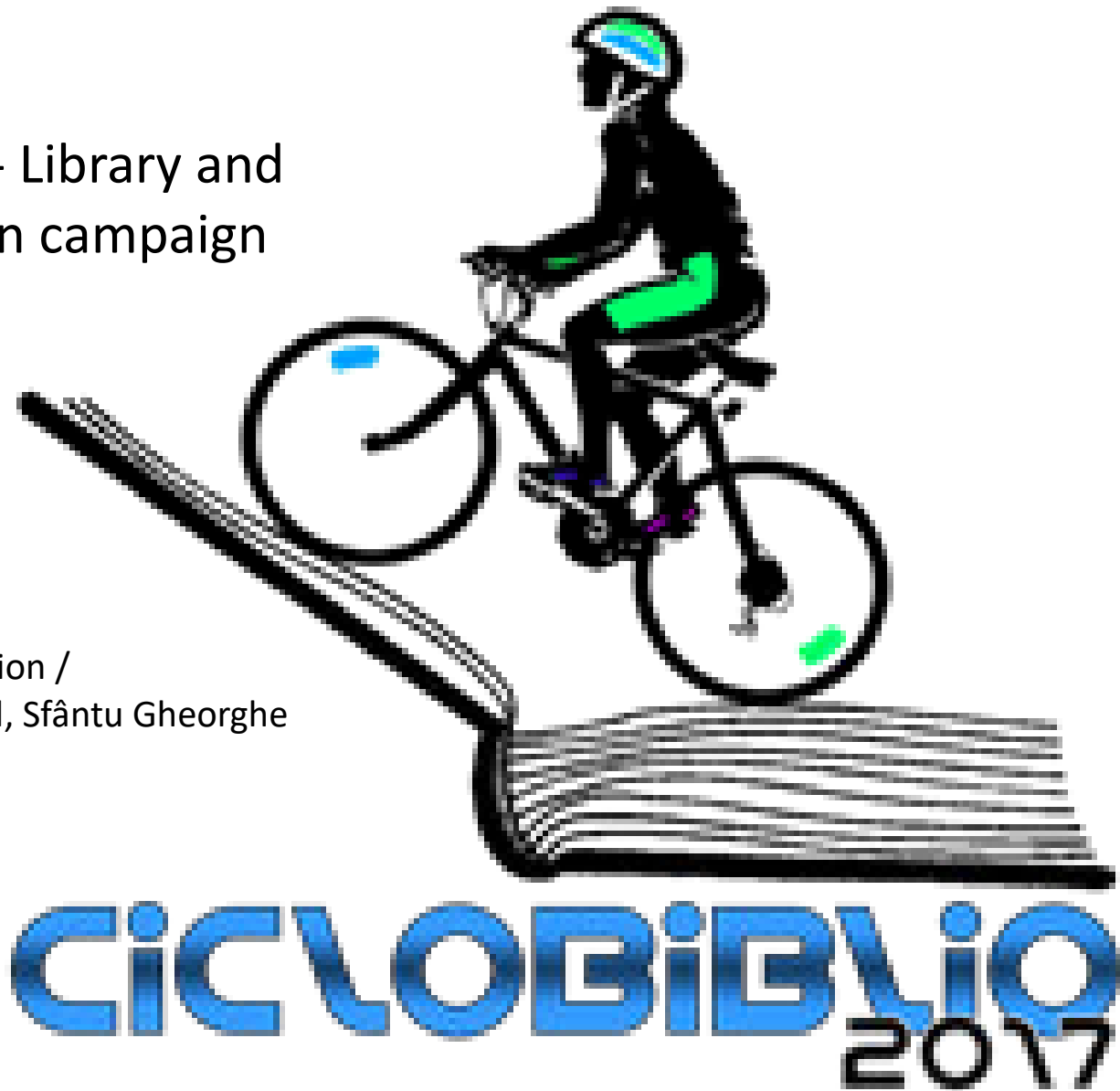


[Doina.Ostafe@exlibrisgroup.com](mailto:Doina.Ostafe@exlibrisgroup.com)

#CicloBiblio2017 - Library and reading promotion campaign

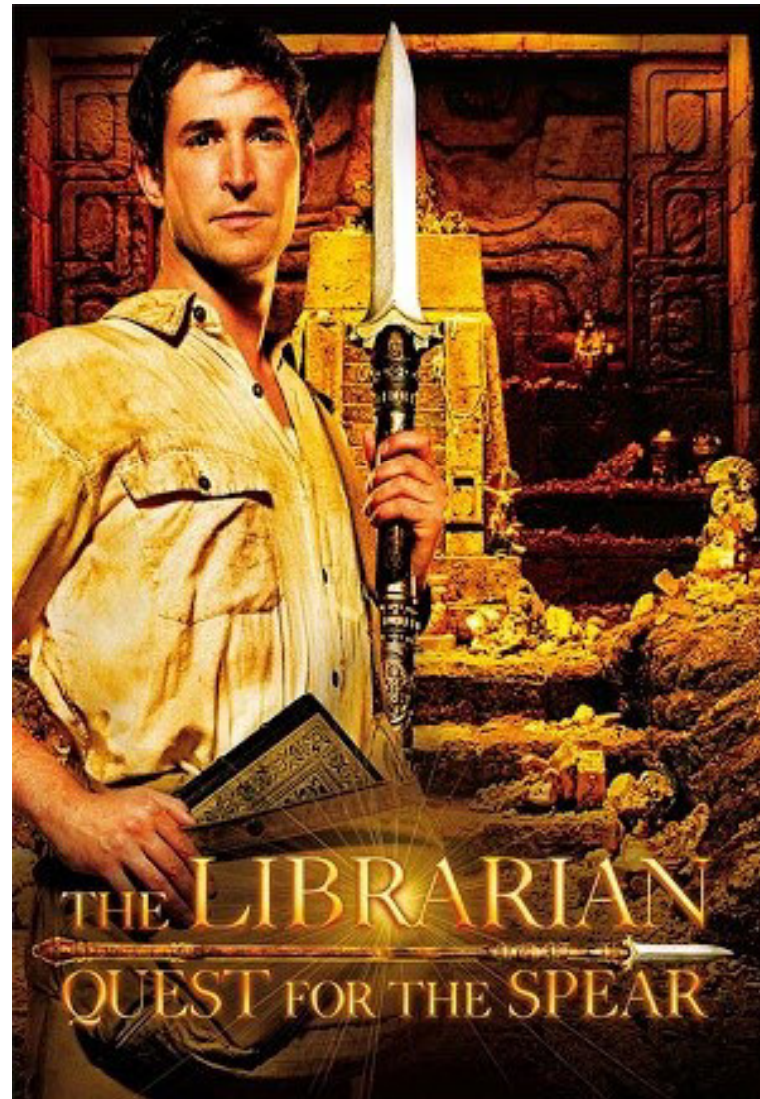
**Kiss László**

Romanian Library Association /  
Mikes Kelemen Highschool, Sfântu Gheorghe

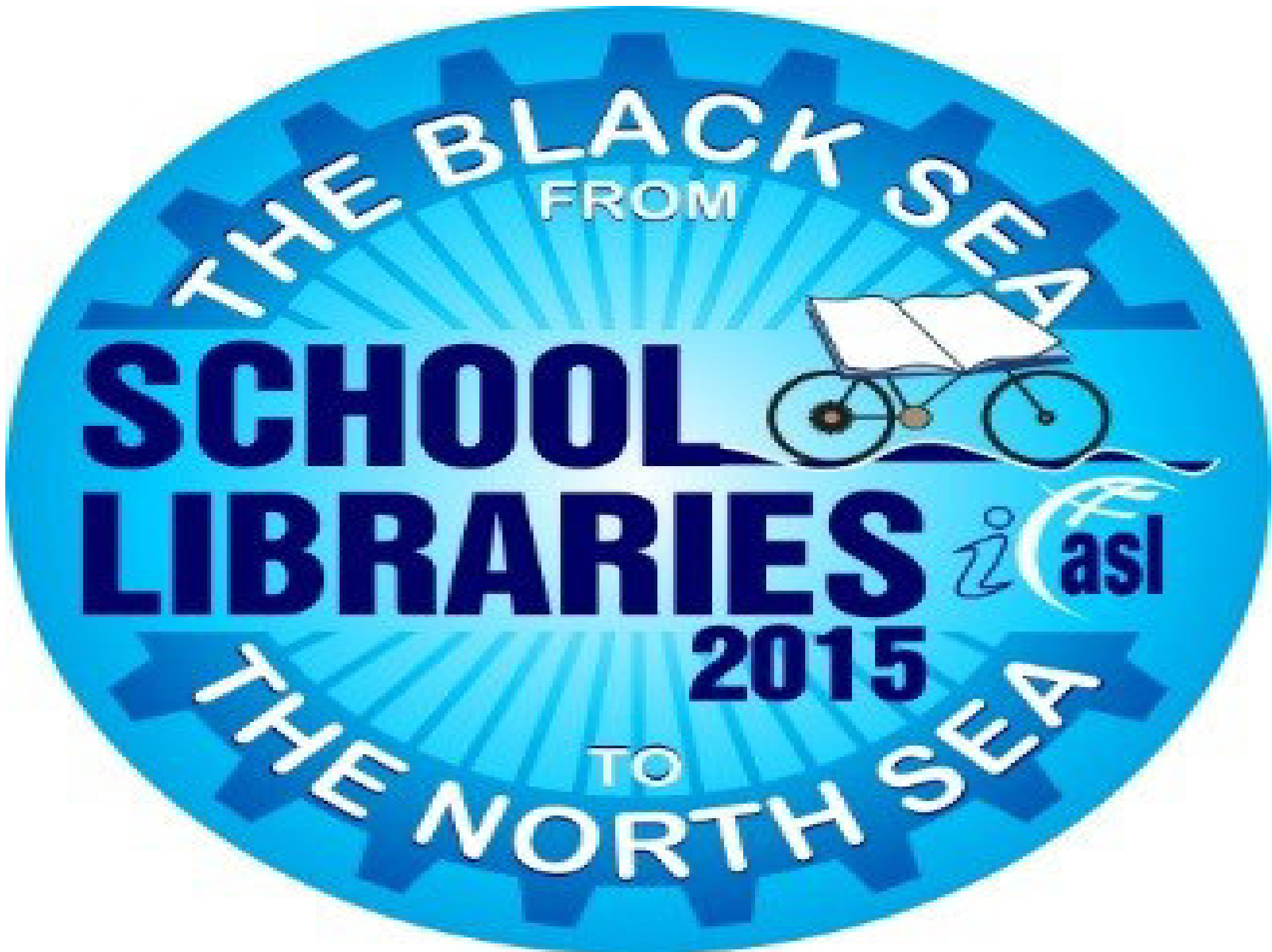




# Unici





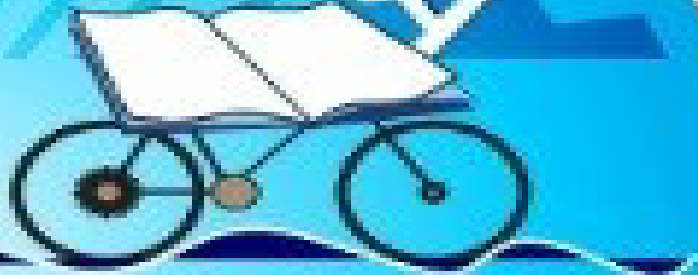


THE BLACK SEA FROM

SCHOOL LIBRARIES

2015

THE NORTH SEA





# Ce voi face mai departe?



ACADEMIA DE VARĂ A CICLOBIBLIOTECARILOR

Tușnad Băi



12-14 AUGUST 2016







**CICLOBIBLIO**  
2017

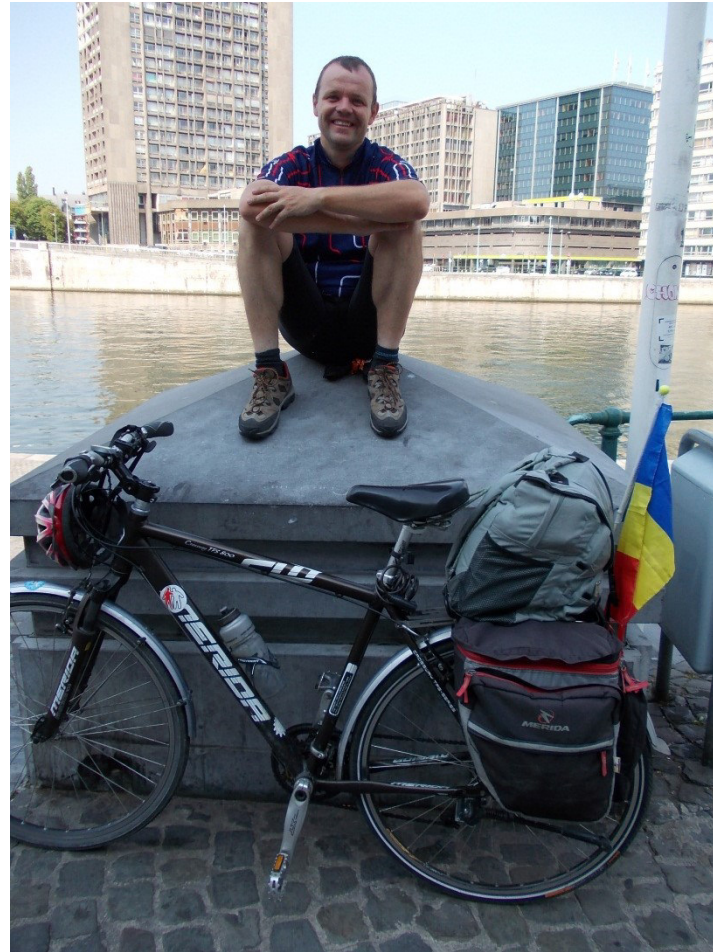
# Bibliotecarii își u(r)nesc bicicletele!

- Brașov-Sibiu
- 5 zile
- 350 km
- 30 bibliotecari + iubitori ai cărții și ai ciclismului
- biblioteci, biserici-fortărețe săsești și alte obiective turistice





Este timpul.....!



FAKE NEWS AND MANIPULATION:  
FACTORS IN THE WAR FOR  
CONTROLLING WHAT WE BELIEVE  
TO BE TRUE

*Daniel VOLOVICI*

**BREAKING**



**NEWS**

Olivia Solon and Sam Levin – “How Google's search algorithm spreads false information with a rightwing bias” –

The Guardian 16.12. 2016

- Google’ search algorithm appears to be systematically promoting information that is false or the result of biased search results;
- Google said (2016) the autocomplete algorithm was designed to omit disparaging or offensive terms associated with individuals’ names;
- “Autocomplete isn’t an exact science and we’re always working to improve our algorithms” said a Google spokeswoman;



climate change is|



- climate change is **a hoax**
- climate change is **not real**
- climate change is **real**
- climate change **issues**

Press Enter to search.



climate change is a hoax



**All**

News

Images

Videos

Shopping

More

Settings

Tools

About 4,900,000 results (0.77 seconds)

### [9 Things You Need To Know About The Climate Change Hoax | Daily ...](#)

[www.dailywire.com/.../9-things-you-need-know-about-climate-change-hoax-aaron-b...](http://www.dailywire.com/.../9-things-you-need-know-about-climate-change-hoax-aaron-b...)

Oct 7, 2016 - With Hurricane Matthew wreaking havoc, the Left is predictably seizing the storm as a means of promoting their radical **global warming** agenda.

### [Global Climate Scam](#)

[www.globalclimatescam.com/](http://www.globalclimatescam.com/)

By Michael Bastasch, The Daily Caller The U.S. and China will formally join the United Nations **global warming** agreement while President Barack Obama ...

*Robert Epstein and Ronald E. Robertson* – **“The search engine manipulation effect (SEME) and its possible impact on the outcomes of elections”** - PNAS Direct Submission -  
<http://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1419828112/-/DCSupplemental>

- reverse engineer Google’s search algorithms
- believes in Search Engine Manipulation effect SEME
- factors that Google uses to determine a web page’s importance:
  - how many other websites link to a page;
  - which other websites link to a page;
  - how much traffic it receives;
  - how often a page is updated.

*Robert Epstein and Ronald E. Robertson* – **“The search engine manipulation effect (SEME) and its possible impact on the outcomes of elections”** - PNAS Direct Submission -  
<http://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1419828112/-/DCSupplemental>

They conduct five relevant double-blind, randomized controlled experiments and the results of these experiments demonstrate that:

- biased search rankings can shift the voting preferences of undecided voters by 20% or more;
- the shift can be much higher in some demographic groups;
- search ranking bias can be masked so that people show no awareness of the manipulation.

*Robert Epstein and Ronald E. Robertson* – “**The search engine manipulation effect (SEME) and its possible impact on the outcomes of elections**” - PNAS Direct Submission -  
<http://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1419828112/-/DCSupplemental>

Their results suggest that a search engine company has the power to influence the results of a substantial number of elections with impunity. The **impact** of such manipulations would be especially large in countries dominated by a **single search engine** company.



https://sputniknews.com/us/201609121045214398-google-dinton-manipulation-election/

tari din Uniunea A Singularity in Time Audacity Program gra CNMP - PNCDI2 - Par ChessOK, Chess Shop Customize Links Free Hotmail

## Two Countries

HOME

WORLD

POLITICS

BUSINESS

OPINION

LIFE

TECH

RADIO

MULTIMEDIA

CARTOONS

LIVE

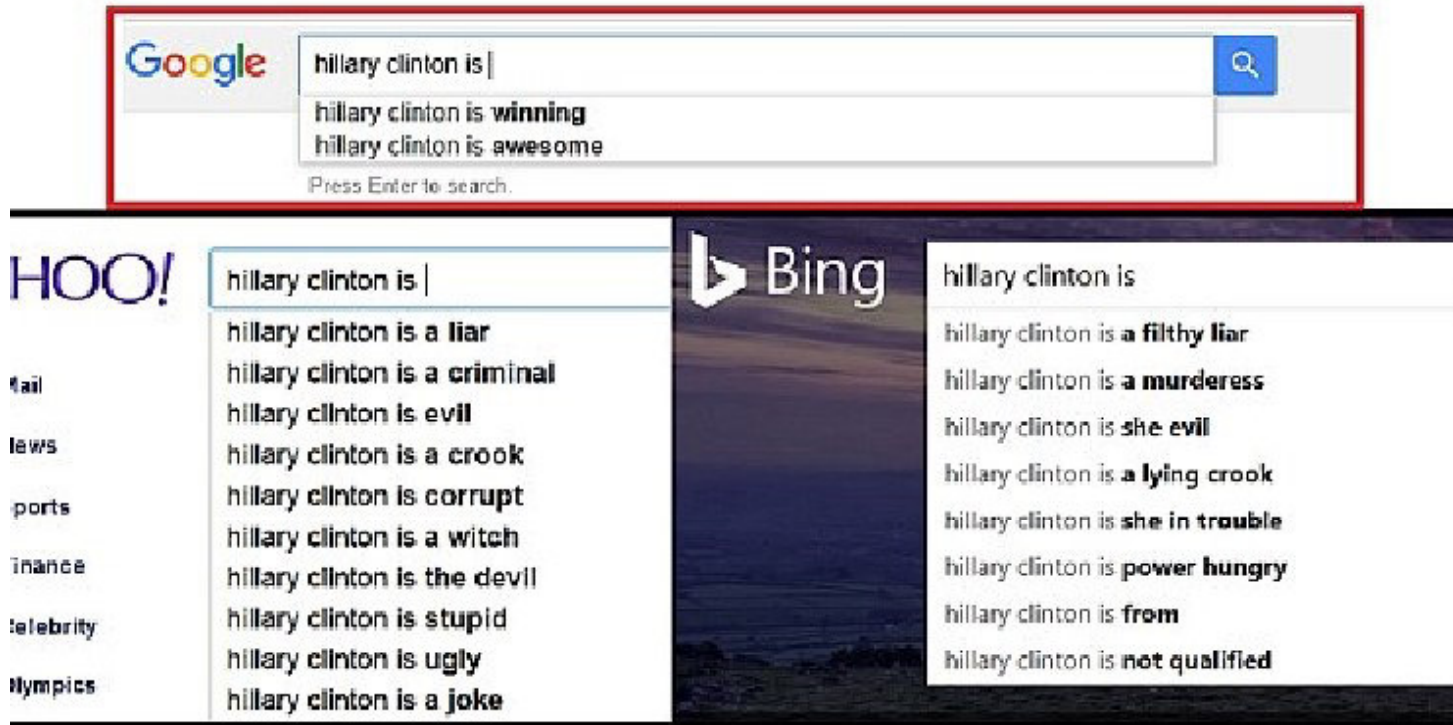


SPUTNIK

# Google

SPUTNIK EXCLUSIVE:

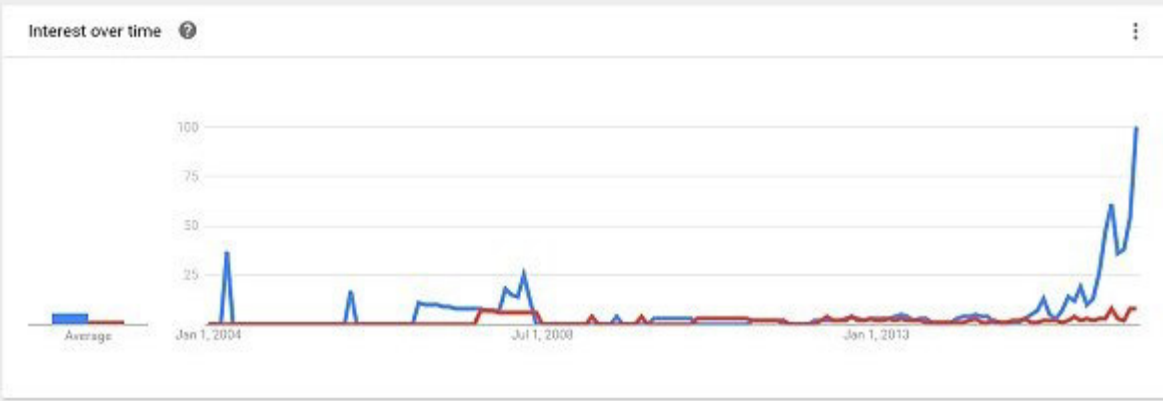
Research Proves Google



Robert Epstein found that Google only gave positive results such as 'winning' and 'awesome' compared to Yahoo and Bing which yielded both positive and negative suggestions

<b>hillary clinton is a liar</b> Search term	<b>hillary clinton is awesome</b> Search term	+ Add comparison
---	--	------------------

Worldwide 2004 - present All categories Web Search



Google

hillary clinton head

- hillary clinton **health care**
- hillary clinton **headquarters**
- hillary clinton **hearing**
- hillary clinton **headquarters chicago**

Press Enter to search.

Bing

hillary clinton h



**Hillary Rodham Clinton**  
Former United States Secretary of State

Hillary Diane Rodham Clinton is an American politician who was the 67th United States Secretary of State from 2009 to 2013, serving under Pres...

- hillary clinton **health**
- hillary clinton **health issues**
- hillary clinton **homes**
- hillary clinton **height**
- hillary clinton **hole in tongue**
- hillary clinton **honduras**
- hillary clinton **health care**
- hillary clinton **has seizure**



## BREAKING: Fox News Exposes Traitor Megyn Kelly, Kicks Her Out For Backing Hillary










Megyn Kelly has brought a lot of heat on her many endeavors to blemish GOP presidential candidate Donald Trump, and the Fox News viewers are not satisfied. The Kelly File's ratings have even fallen behind Maddow Show on MSNB, which is disgraceful. VIA National Insider Politics Via: Conservati

Yesterday at 8:39pm · endingthefed.com

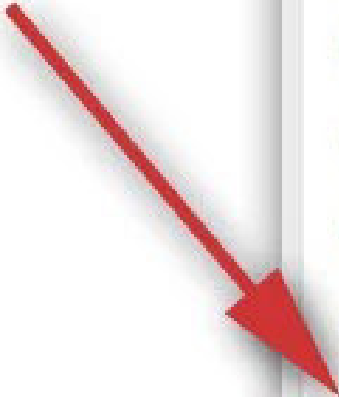
➔ Share

TRENDING



-  **McChicken**  
6.6K people talking about this
-  **Anthony Weiner**  
12K people talking about this
-  **Go Topless Day**  
41K people talking about this
-  **Los Angeles International Airport**  
33K people talking about this
-  **Megyn Kelly**  
59K people talking about this
-  **Will Smith**  
140K people talking about this
-  **Britney Spears**  
320K people talking about this
-  **Mila Kunis**  
10K people talking about this
-  **Beyonce**  
42K people talking about this
-  **Kanye West**  
330K people talking about this

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BREAKING NEWS

WOW: President Elect Slams Smug Media in Face-to-Face at Trump Tower

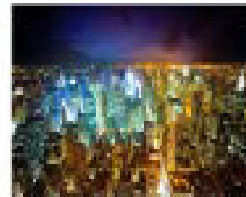
POLITICS



### WOW: President Elect Slams Smug Media in Face-to-Face at Trump Tower

"What is a damn of him, the stupid old media who got it all wrong" President-elect Donald Trump roared members of the mainstream media to

November 21, 2016



### WATCH: Judge Jeanine DESTROYS 'Hamilton' Cast: 'You're All Damn Hypocrites'

November 21, 2016

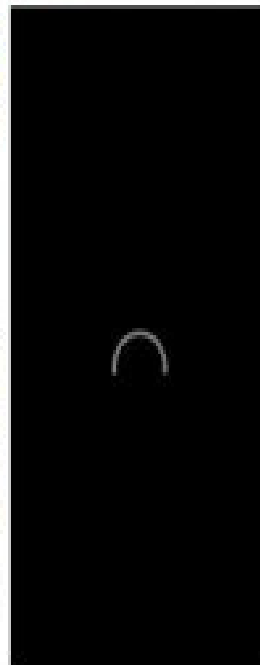


### Gen. Mattis Wrote THIS to His Marines Before Leading Them into Battle. Please Read It.

November 21, 2016

LIKE US ON FACEBOOK

click to follow



# ENDING THE FED

[WHAT IS THE FED?](#) [WHY SHOULD I CARE?](#) [GETTING INFORMED](#) [ENDING THE FED](#) [SHOW SUPPORT](#) [BLOG](#)

---


## WHAT IS THE FED?

The Federal Reserve, "the Fed", is the central bank of the United States of America that was created in 1913 by Congress. It is a banking cartel that has a government-granted monopoly on the creation of money and credit. The Fed literally loans "money" (Federal Reserve Notes) into existence. Federal Reserve Notes are paper promises backed by nothing of intrinsic value and they are only functioning as money because the government forces them on the public through legal tender laws. Federal Reserve Notes are referred to as dollars but are not. The definition of a dollar is a weight of silver (371 grains). To put it simply, the Fed is a group of banks running a national counterfeiting operation with the protection of the government.



```
<script src='//connect.facebook.net/en_EN/all.js#xfbml=1'></script></head>
<body class="home page page-id-1460 page-template page-template-template-templa-

<script async src="//pagead2.googlesyndication.com/pagead/js/adsbygoogle.js">
<script>
  (adsbygoogle = window.adsbygoogle || []).push({
    google_ad_client: "ca-pub-4472516631898679",
    enable_page_level_ads: true
  });
</script>
```

 **Expunere**

```
<body class="home blog"><script async src="//pagead2.googlesyndication.com/pagead/
google_ad_client: "ca-pub-4472516631898679",    enable_page_level_ads: true  });</

<script>
  (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
  (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
  m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
  })(window,document,'script','//www.google-analytics.com/analytics.js','ga');

  ga('create', 'UA-75247460-1', 'auto');
  ga('send', 'pageview');

</script>
```

 **Ending The Fed**

FEATURED NEWS

April 2017

M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

« DEC

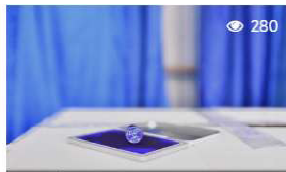


307

ECONOMIE

**Havana și Dubai, în top 5 al preferințelor românilor care-și petrec Crăciunul în străinătate; cheltuiala medie pentru transport – 310 euro/persoană**

Românii care își vor petrece Crăciunul în străinătate au ales atât orașe europene, cât și destinații exotice, Barcelona fiind destinația preferată, în...



280

POLITICĂ

**Neamț: PSD a câștigat parlamentarele cu peste 53%, potrivit rezultatelor finale ale BEJ**

PSD a câștigat detașat alegerile parlamentare în județul Neamț cu 53,14% din voturi, potrivit datelor finale centralizate de Biroul Electoral Județean Neamț...



284

POLITICĂ

**PSD a câștigat alegerile la Brașov, pentru prima dată după 1990 – rezultate finale**

CALENDAR

April 2017

M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

« DEC



# Mark Zuckerberg

## 13 Noiembrie 2016

- Stronger detection;
- Easy reporting;
- Third party verification;
- Warnings;
- Related articles quality;
- Disrupting fake news economics;
- Listening.

*Emily Willingham* - “A Scientific Approach To Distinguishing Real From Fake News”

-  
<https://www.forbes.com/sites/emilywillingham/2016/11/28/a-scientific-approach-to-distinguishing-real-from-fake-news/#5ce9675e2bd8>

- The proliferation of sites that deliberately create fake news and ship it via social media streams to the masses
- Some sites are satirical but look real
- When the efforts are so targeted at looking real how can we tell what's fake?
- Distinguishing factual from fake news matters.

*Emily Willingham* - “A Scientific Approach To Distinguishing Real From Fake News”

<https://www.forbes.com/sites/emilywillingham/2016/11/28/a-scientific-approach-to-distinguishing-real-from-fake-news/#5ce9675e2bd8>

### **The scientific approach for telling real from fake news**

- 1. Observe:** You see a news headline.
- 2. Ask a question:** “Is this real?” To start finding out, read the article. I know, it seems obvious, but 60% or more of you do not
- 3. Hypothesize:** “This is real news.” It may seem counterintuitive, but the goal when devising a hypothesis is to then develop tests that will crush it. If your hypothesis survives your tests, chances are, it’s valid.
- 4. Analyze data**
- 5. Draw conclusion**
- 6. Act on your results:** If after your tests, your hypothesis was supported, share away. But if your series of tests raised red flags, step away from the share button. Sharing false news or deliberately misleading headlines out of biased eagerness only reinforces the walls among us

*Emily Willingham* - “**A Scientific Approach To Distinguishing Real From Fake News**”

-  
<https://www.forbes.com/sites/emilywillingham/2016/11/28/a-scientific-approach-to-distinguishing-real-from-fake-news/#5ce9675e2bd8>

**The scientific approach for telling real from fake news**

- **Test 1:** What does the URL say?
- **Test 2:** Check the date
- **Test 3:** Check your bias. it was something you wanted to hear? It's best to be honest with yourself about seeking confirmation bias.
- **Test 4:** Check the site's bias. If it has a political bias evident in its URL, this isn't news. It might be a story repackaged with a specific slant, a breaking development bolstered with bias, or even a cogent analysis. But it's not news. At best, it's fact-based opinion about the news.
- **Test 5:** Do the claims match the evidence? But read the article and line up the claim in that headline with the evidence the writer provides.
- **Test 6:** If the article is repackaged news, does it link to a genuine, bona fide news site with information that confirms what it says, whether in the context of analysis or bias or not?

Why social spam is different from traditional spam such as email and web spam?

- **Openness.** Anyone can create an social account. Easy to contact other users.
- **URL blacklists are too slow** at identifying new threats, allowing more than 90% of visitors to view a page
- **URL shortening services** for obfuscation.
- **Automatically control bots** by using APIs.

**Useful tools** for conducting research in the area:

- o Big data analysis (e.g., MapReduce, Pig, Hive)
- o **Machine learning (e.g., Weka, Mallet)**
- o Visualization (e.g., Matplotlib, Graphviz)

We can't yet teach AI to discern truth and falsehood, but we can tell it to rank higher more reliable sources.



A dark, atmospheric landscape with mountains and a cloudy sky, serving as a background for the text. The scene is dimly lit, with a deep blue and black color palette. The mountains are silhouetted against a slightly lighter, cloudy sky. The overall mood is mysterious and contemplative.

THE TRUTH IS OUT THERE

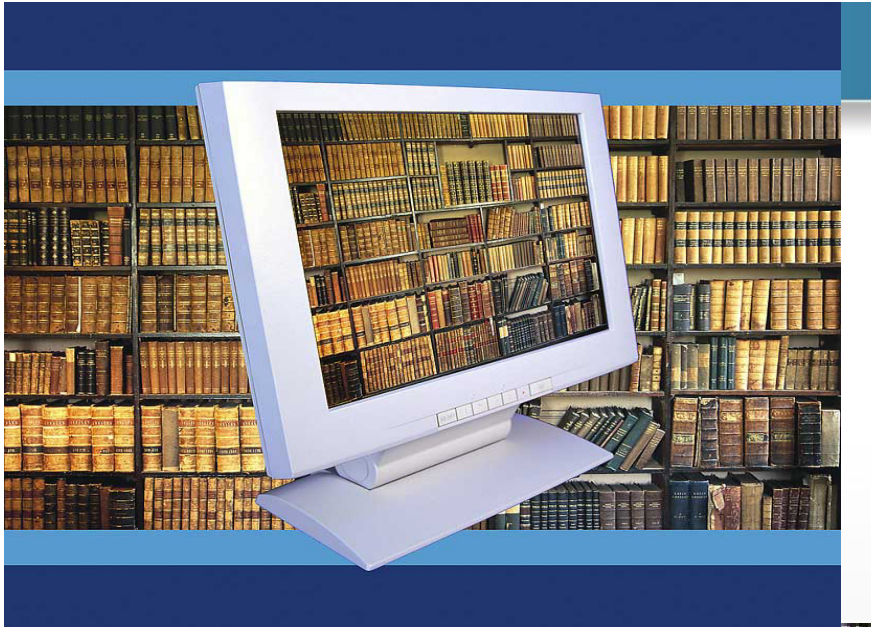
# Approaches for automate pattern recognition in digital libraries

Dana SIMIAN, Mihai STANCU, Ralf D. FABIAN,  
*„Lucian Blaga“ University of Sibiu*

*ROMANIA*

**13th Workshop on Stochastic Models and Their Applications**  
**Berlin 2017**





# Practical problems

- Growth of media content generation and easy access to it.
- Social media
- Commercial sites which offer professional photos



- Copy-Paste is easy
- Distribution is easy
- What about ownership and copyright protection of digital images?



- Automatic monitoring of advertising spots.

# Practical problems

- Unintended alterations of digital documents (images) - transmission, compression.
- Intended alterations of digital documents (images) - Google photos (scaling); effects applied to images.
- Necessity of author (owner) identification, profile identification, content classification, detecting changes in initial media documents.
- Techniques for embedding additional information in digital documents, for later access.
- Visible and invisible markers

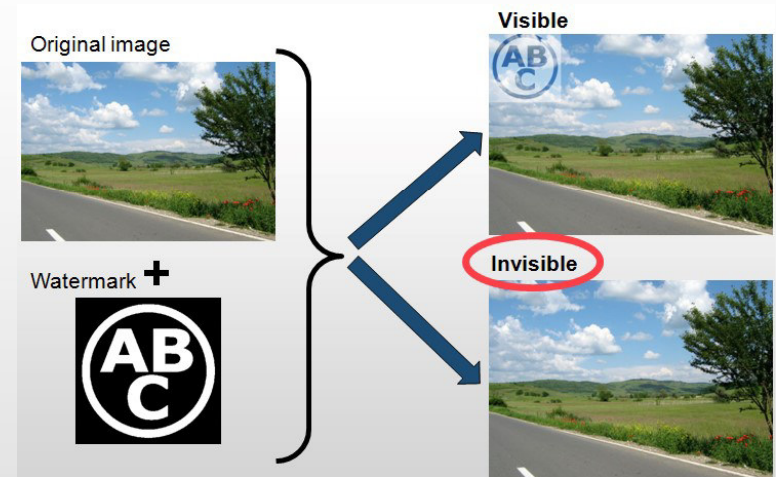


# Goal

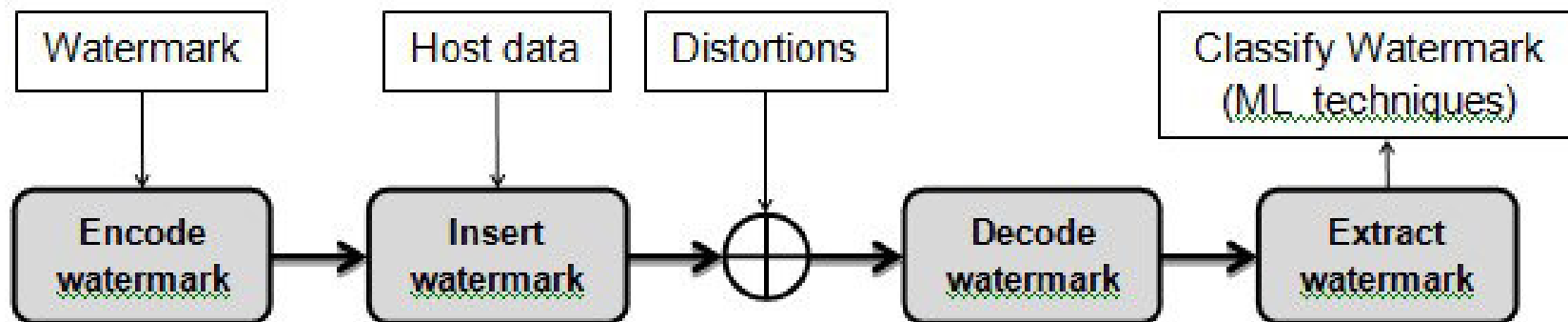
- **Study the performances of different Machine Learning techniques** for autonomous identification of watermarks in altered images.
- **Study the influence of different parameters** on the systems' performances.
- **Build a model** of a system that allows autonomous identification of embedding information in media documents even if they have undergone subsequent transformations that changed their initial state.
- **Validate the model** for digital images.
- The system uses **watermarking and machine learning techniques**.
- **Design and implement a tool for image preprocessing , watermark embedding, watermark extraction and watermark classification.**
- **Use different implementations for the classification subsystem**

# Invisible Watermark

- **Watermark:** a bit pattern inserted into a digital host.
- Data are stored in the actual pixels.
- Attributes:
  - *imperceptible* for an observer
  - *inseparable* from the content
  - *experience the same transformations* as their container
- Doesn't reduce usability
- The watermark is stored in imperceptible data

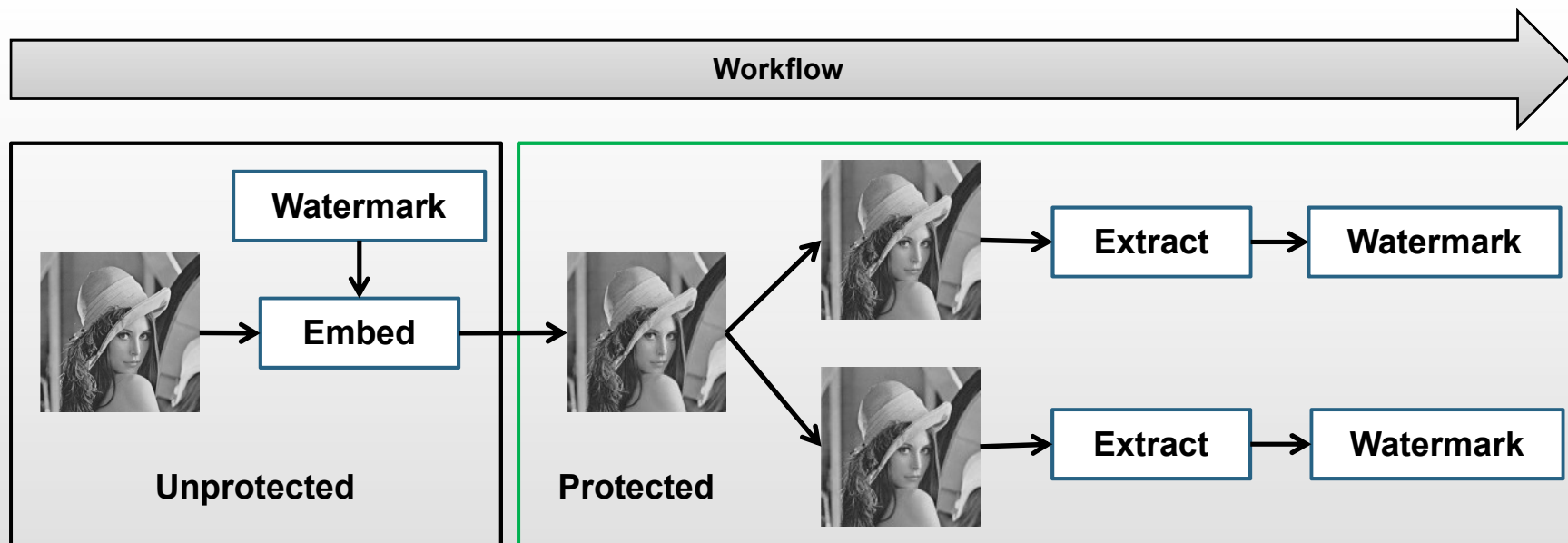


# Proposed model





# Watermarked information transmission



# Spatial and frequency domains

## ▪ Storing and processing domains for digital images

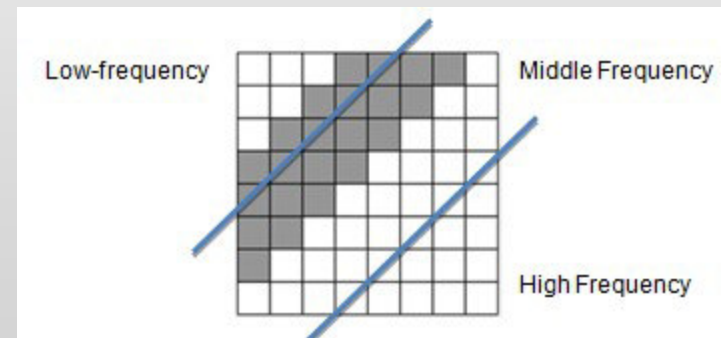
- **Spatial domain**: refers to the pixel amount composing an image.
- **Frequency domain**: high-frequency components correspond to edges and low-frequency components to interior regions of an object.

## ▪ Embedding techniques

- **Spatial domain**: use of changing the grey levels of pixels to insert supplementary data. Easy to implement, don't resist well on processing operations (LSB method).
- **Frequency domain**: information is embedding in coefficients of the transformed image (DCT, DFT, DWT). The focus is in the luminance component to perform embedding on.

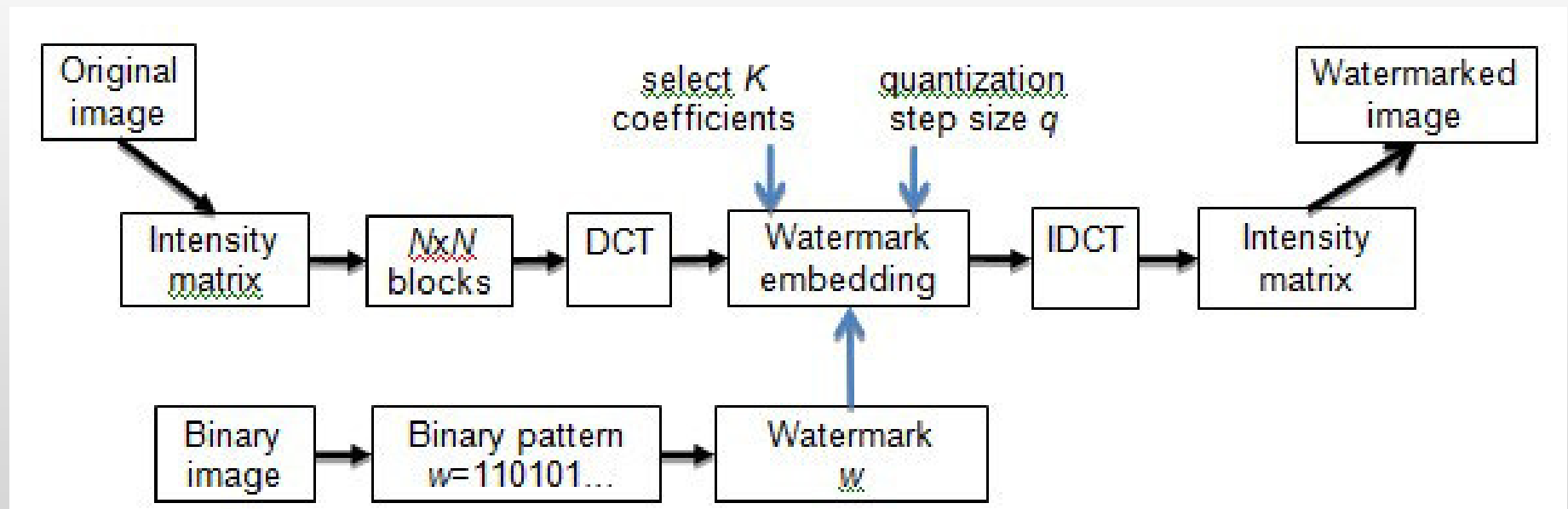
# DCT transform

- The image is divided into  $N \times N$  square sized disjoint pixel blocks, i.e.  $8 \times 8$ ,  $16 \times 16$  etc. Each of these blocks is then transformed into the DCT domain and contains  $N \times N$  DCT coefficients organized by frequency range.
- From every DCT coefficient block, only a number of  $K$  middle frequency coefficients are selected for watermark embedding.
- Low frequency – affect visual quality of the original image
- High frequency - watermark is not that robust to processing, e.g. lossy compression.



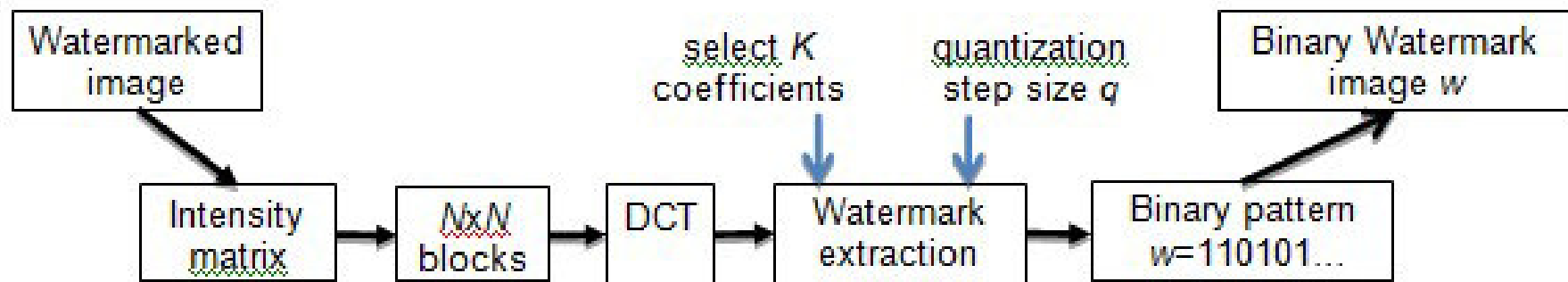
# Embedding Technique

- Blind watermarking,
- Quantisation index modulations (QIM)



# Extracting technique

- Reverse the embedding process



# Watermarks' classification. ML techniques

- **Goal** – correct classification of watermarks extracted from modified (altered) images.
- **Instances** –  $(X,y)$ 
  - $X=(x_1,\dots,x_{N \times N})$  represent the recovered watermark's bits (pattern's bits)
  - $y = \text{label}$  (original watermark)
- **Methods to obtain training and validation data set**
  1. Alteration of the host images by different attacks (image processing operations) - using our image processing tool.
  2. Automate alteration of the original watermark.
- **ML techniques used**
  - **Artificial Neural Networks (ANN)**
  - **Support Vector Machine (SVM).**

# ANN for watermark classification

**ANN architecture** for classification of watermarks of size  $N \times N$ .

- Input layer:  $N \times N$  units (sigmoid perceptrons).
- One hidden layer
- Output layer:  $M$  perceptrons.  $M$  = the number of classes (original watermarks)
- $N=64$ . We use a method that resize a watermark to the input size  $N \times N$ .
- Training/validation data set  $D = \{(X, y)\}$ 
  - $X = (x_1, \dots, x_{N \times N})$  watermark pattern
  - $y$  watermark label

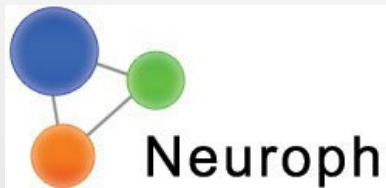
# Development tools and resources (I)



- **Programming language**



- **Development environment**



- **Neural Network framework**



- **USC-SIPI Image Database**

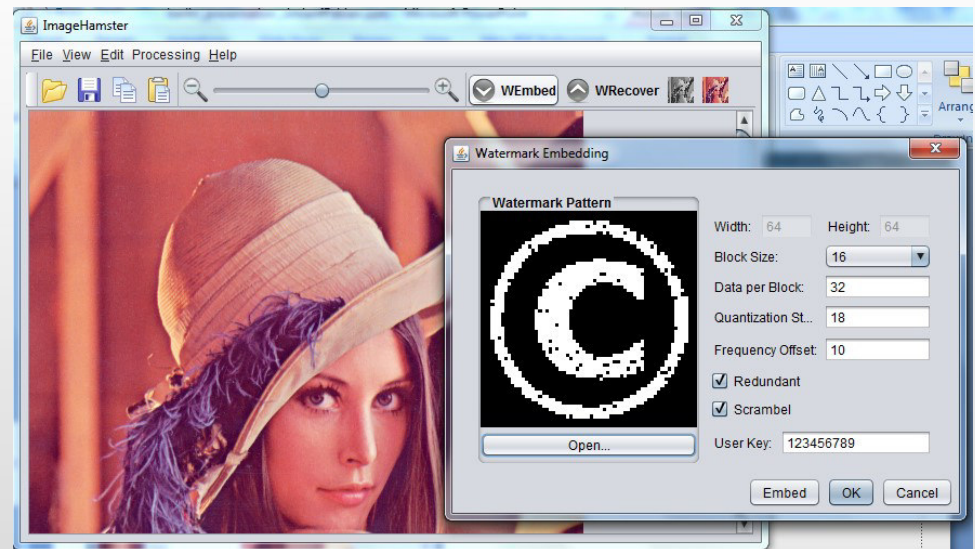
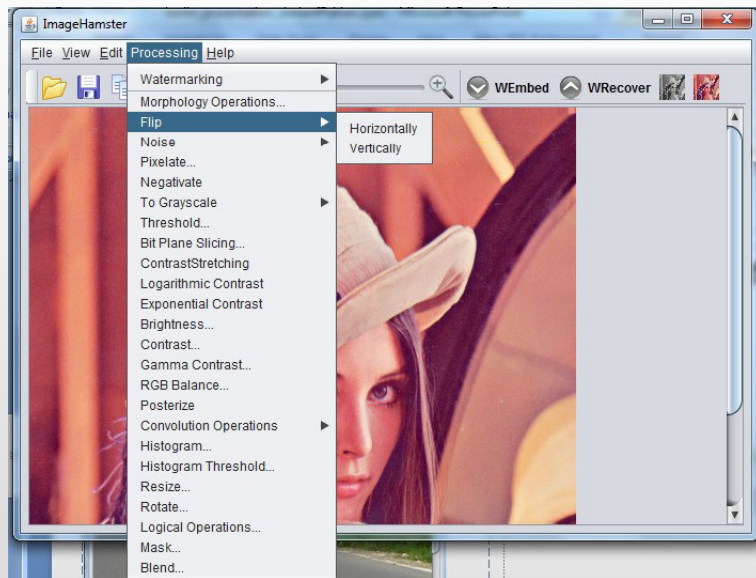


- **CalTech 101 Silhouettes Data Set**

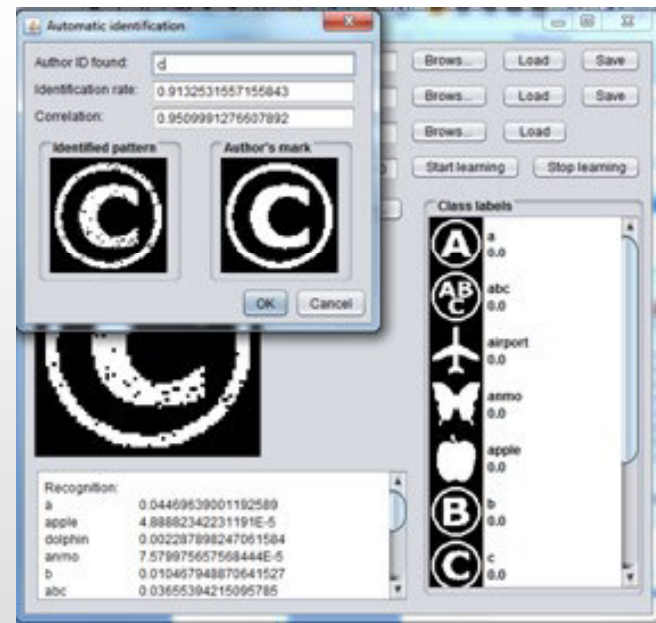
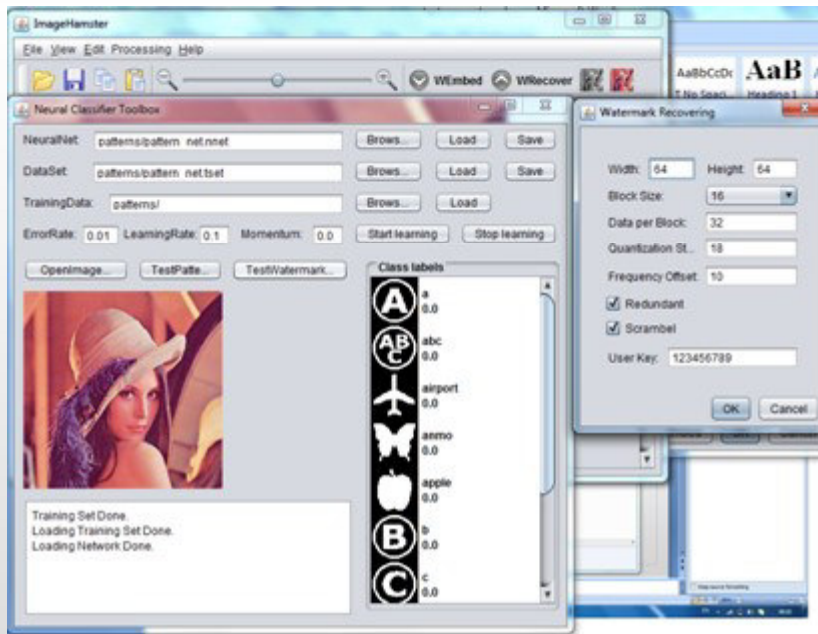


# Main application Watermark

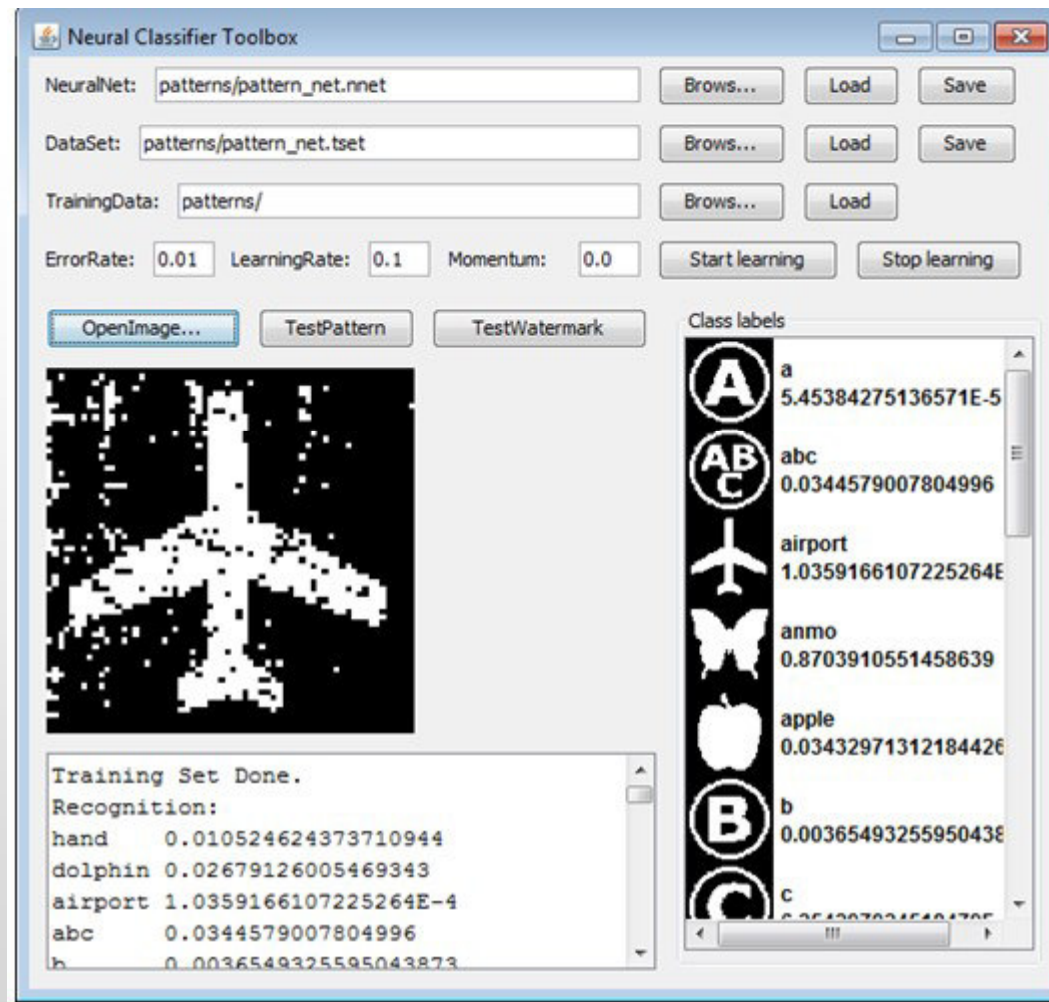
- Image processing
- Embedding – Extracting watermark



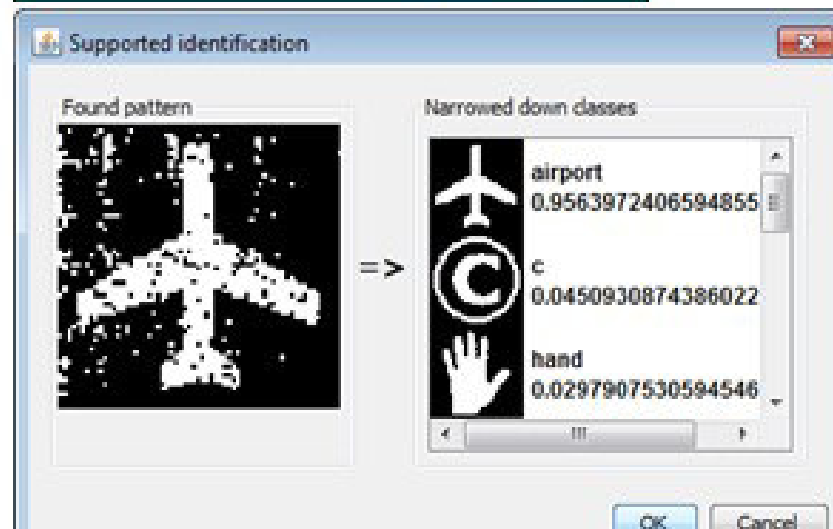
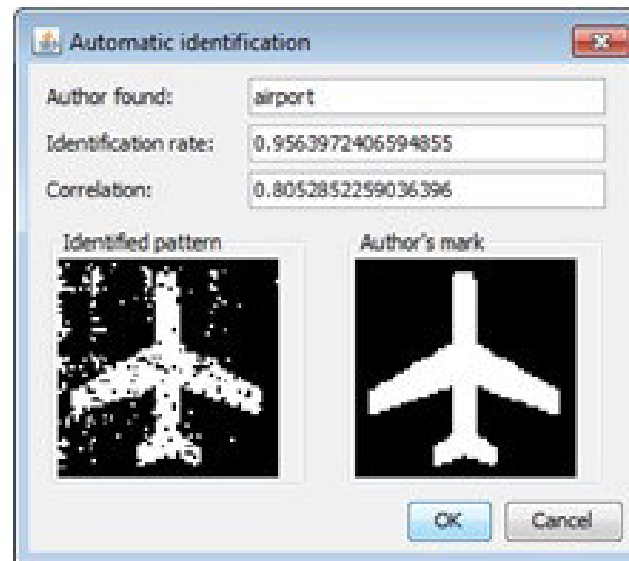
# Main application ML



# Automate owner identification



# Automate owner identification



# Development tools and resources (II)



- **Programing language**



- **Jupiter Notebook**



- **Neural Network library**



- **CalTech 101 Silhouettes Data Set**

# Practical results ANN

- 93 original watermarks
- 100 noisy images/watermark (max. noise 0.4)
- 100 images pure noise
- Input layer 4096. Hidden layer 100. Output layer 93
- Data set:
  - Training set 80% (3 fold cross validation)
  - Validation set 20%
- Grid search validation (perceptron type {linear, sigmoidal}, learning rate {1, 0.1, 0.01, 0.001}, momentum {0.5, 0.9})
- Accuracy 0.993085

# Results for ANN with default parameters

```
Out[438]: MLPClassifier(activation='relu', alpha=0.0001, batch_size='auto', beta_1=0.9,
                        beta_2=0.999, early_stopping=False, epsilon=1e-08,
                        hidden_layer_sizes=(100,), learning_rate='constant',
                        learning_rate_init=0.001, max_iter=200, momentum=0.9,
                        nesterovs_momentum=True, power_t=0.5, random_state=None,
                        shuffle=True, solver='adam', tol=0.0001, validation_fraction=0.1,
                        verbose=False, warm_start=False)
```

```
In [439]: y_pred = clf.predict(x_test)

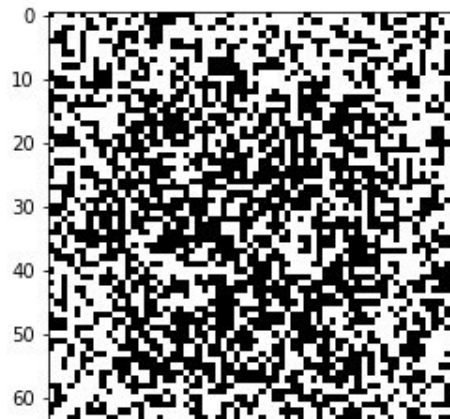
          from sklearn.metrics import accuracy_score
          accuracy_score(y_test, y_pred)
```

```
Out[439]: 0.9863636363636363
```

```
In [446]: image = scipy.misc.imread('patterns/apple.png')/255
          noisy_image = np.logical_xor(image, noise(0.4, np.shape(image)))

          plot.imshow(noisy_image, cmap='Greys')
```

```
Out[446]: <matplotlib.image.AxesImage at 0x2281f26c320>
```



# Grid search – ANN Optimal parameters

- Activation function =sigmoid
- learning\_rate\_init=0.001
- momentum=0.5

```
from myutils import plot_learning_curve
plot_learning_curve('Learning Curves', train_sizes, train_scores, test_scores, ylim=(0.95, 1.01))
```





# Practical results SVM

- 93 original watermarks
- 100 noisy images/watermark (max. noise 0.4)
- 100 images pure noise
- Data set:
  - Training set 80% (3 fold cross validation)
  - Validation set 20%
- Grid search validation (kernel {rbf, linear}, C {1, 10, 100, 1000}, gamma{0.001, 0.0001})
- Accuracy 0.963829

# Results for SVM with default parameters

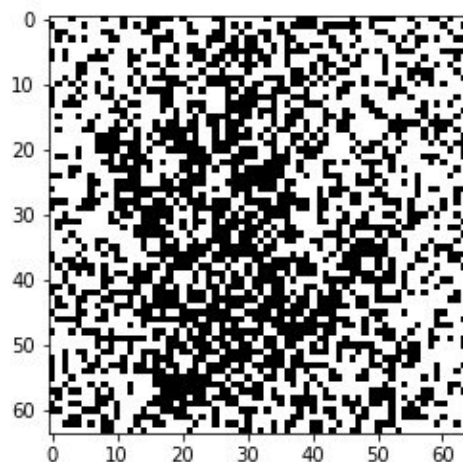
```
Out[10]: SVC(C=1.0, cache_size=200, class_weight=None, coef0=0.0,  
            decision_function_shape=None, degree=3, gamma='auto', kernel='rbf',  
            max_iter=-1, probability=False, random_state=None, shrinking=True,  
            tol=0.001, verbose=False)
```

```
In [11]: y_pred = clf.predict(x_test)  
  
         from sklearn.metrics import accuracy_score  
         accuracy_score(y_test, y_pred)
```

```
Out[11]: 0.92272727272727273
```

```
In [12]: image = scipy.misc.imread('patterns/hand.png')/255  
         noisy_image = np.logical_xor(image, noise(0.35, np.shape(image)))  
  
         plot.imshow(noisy_image, cmap='Greys')
```

```
Out[12]: <matplotlib.image.AxesImage at 0x2ccc2b579b0>
```



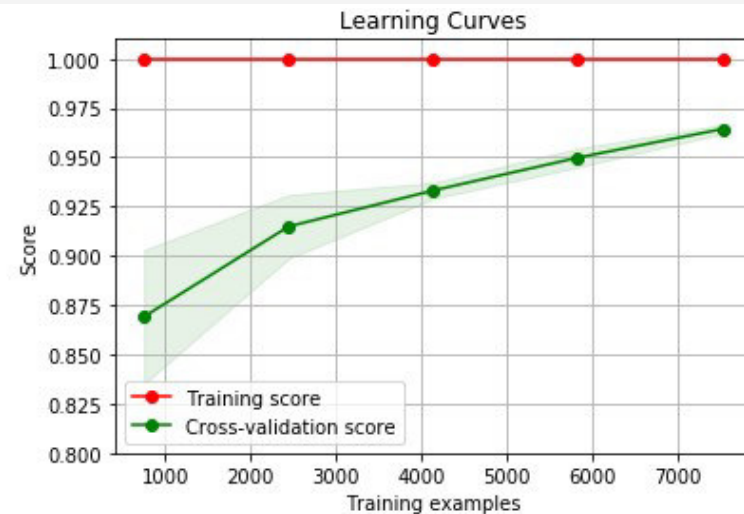
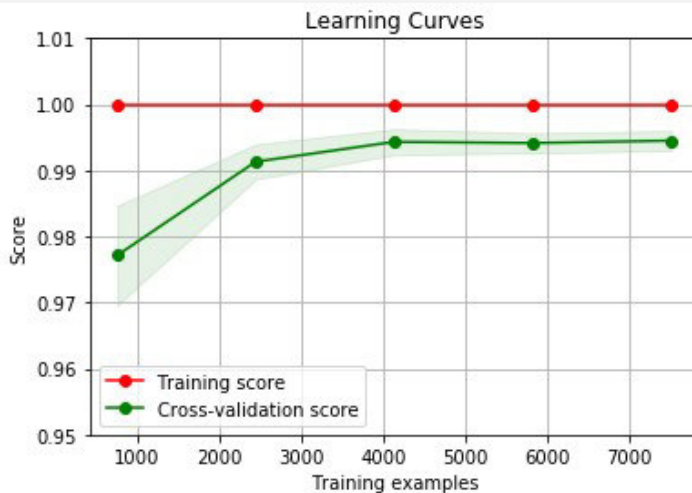
# Grid search – Optimal parameters

## ANN

- Activation function = sigmoid
- learning\_rate\_init=0.001
- momentum=0.5

## SVM

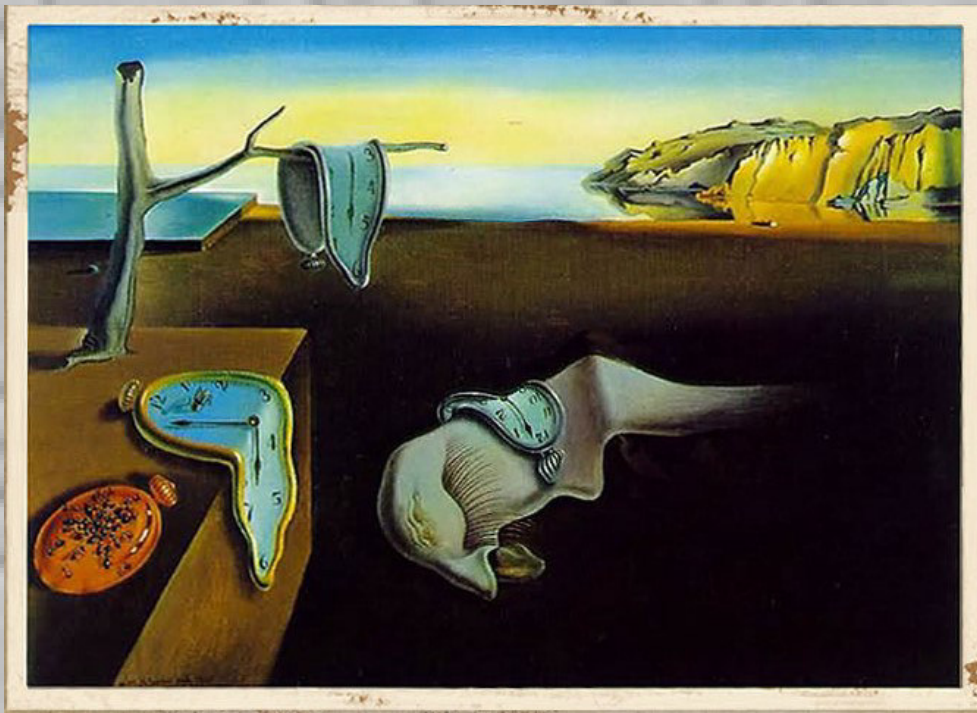
- C=10
- Kernel= RBF
- Gamma=0.0001



## Further developments

- Change the ANN architecture in order to parallelize the training process (one ANN for each original watermark).
- Make the same change for the SVM solution.
- Study the possibility of watermark recognition directly from the image, skipping the recovery step.

**Thank You  
for your time**





# Part of Speech Tagging in Romanian Texts

---

Claudia CÎRCIOROABĂ, Mihai STANCU<sup>(1)</sup>, Daniel I. MORARIU, Daniel VOLOVICI

"Lucian Blaga" University of Sibiu, Engineering Faculty, Computer Science and Electrical  
and Electronics Engineering Department

<sup>(1)</sup>"Lucian Blaga" University of Sibiu, The Faculty of Economics, PhD Student



# Main Objectives

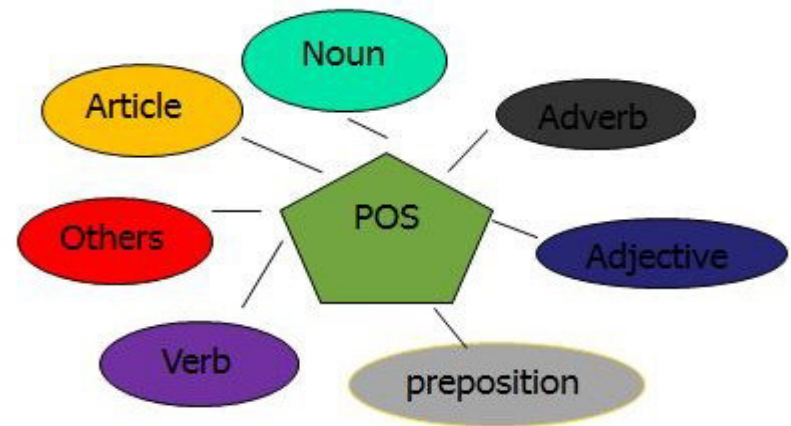
---

- What is POS?
- Lemma advantages
- Learning algorithm
- Corpus
- Naïve Bayes' theorem
  - Backward Naïve Bayes
  - Forward Naïve Bayes
- Results
- Conclusions
- Follow up / Further development

# Corpus Preprocessing

- ❖ Total number of POS(Parts of Speech) : 14.
- ❖ The 14 POS have been reduced to 7 POS.
- ❖ Only the first letter has been extracted from POS.

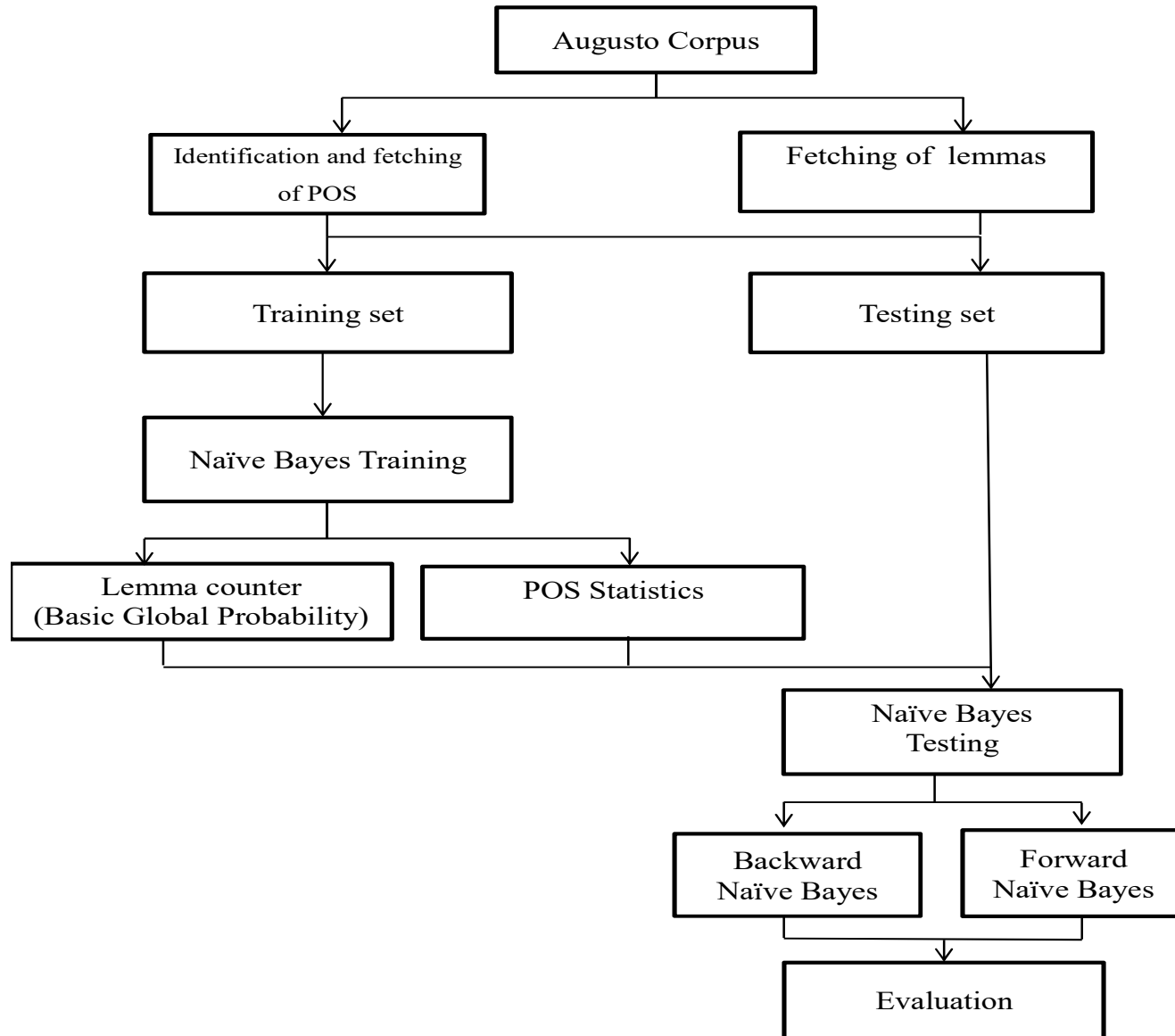
The first letter from postag	What category represent	The category that was added
n	Noun	Noun
m	Number/Numeral	
d	Attribute	
v	Verb	Verb
a	Adjective	Adjective
r	Adverb	Adverb
t	Negation/Adverbial phrase	
q	Article	Article
c	Coordinate	
p	Pronoun	
s	Preposition	Preposition
y	Preposition	
i	Complement/interjection/ Conjunction	Others
x	Others /groups of letters	



```
"PartOfSpeechStatistics": {
  "adverb": 3236,
  "noun": 5527,
  "adjective": 1941,
  "preposition": 3385,
  "verb": 4044,
  "article": 3651,
  "point": 1200,
  "others": 5
},
```



# Workflow



# Backward Naïve Bayes

$$P(x = \text{POS}/\text{predecesor}) = \frac{P(\text{predecesor} / x = \text{POS}) * P(x = \text{POS})}{P(\text{predecesor})}$$

*El își petrece zilele frumoase de vară la bunici.*

```
"frumos": {  
  "prepozitie": {  
    "adj": 4,  
    "subst": 1  
  },  
  "subst": {  
    "adj": 3,  
    "subst": 1  
  },  
  "adj": {  
    "adj": 2  
  },  
  "adv": {  
    "adj": 4  
  },  
  "verb": {  
    "adj": 1  
  },  
  "articol": {  
    "adj": 2  
  }  
}
```

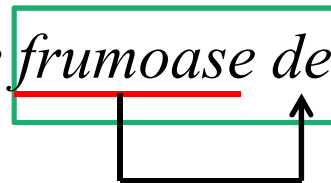
$$\begin{aligned} P(\text{frmos} = \text{adj} / \text{pred} = \text{subst}) \\ = \frac{P(\text{pred} = \text{subst} / \text{frumos} = \text{adj}) * P(\text{frumos} = \text{adj})}{P(\text{pred} = \text{subst})} \end{aligned}$$

$$\begin{aligned} P(\text{frmos} = \text{subst} / \text{pred} = \text{subst}) \\ = \frac{P(\text{pred} = \text{subst} / \text{frumos} = \text{subst}) * P(\text{frumos} = \text{subst})}{P(\text{pred} = \text{subst})} \end{aligned}$$

# Forward Naïve Bayes

$$P(x = \text{POS}/\text{succesor}) = \frac{P(\text{succesor} / x = \text{POS}) * P(x = \text{POS})}{P(\text{succesor})}$$

*El își petrece zilele frumoase de vară la bunici.*



```
"frumos": {
  "articol": {
    "adj": 3
  },
  "verb": {
    "adj": 2
  },
  "subst": {
    "adj": 7
  },
  "adj": {
    "subst": 2,
    "adj": 1
  },
  "prepozitie": {
    "adj": 1
  }
}
```

$P(\text{frmos} = \text{adj} / \text{pred} = \text{prepoziție})$

$$= \frac{P(\text{pred} = \text{prepoziție} / \text{frumos} = \text{adj}) * P(\text{frumos} = \text{adj})}{P(\text{pred} = \text{prepoziție})}$$



# Evaluation of classifiers performance

---

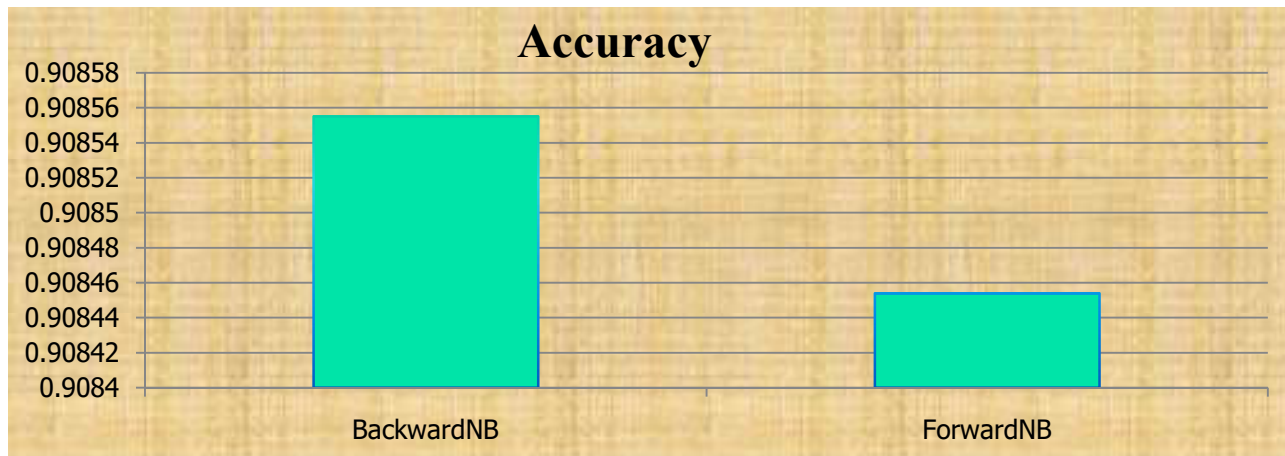
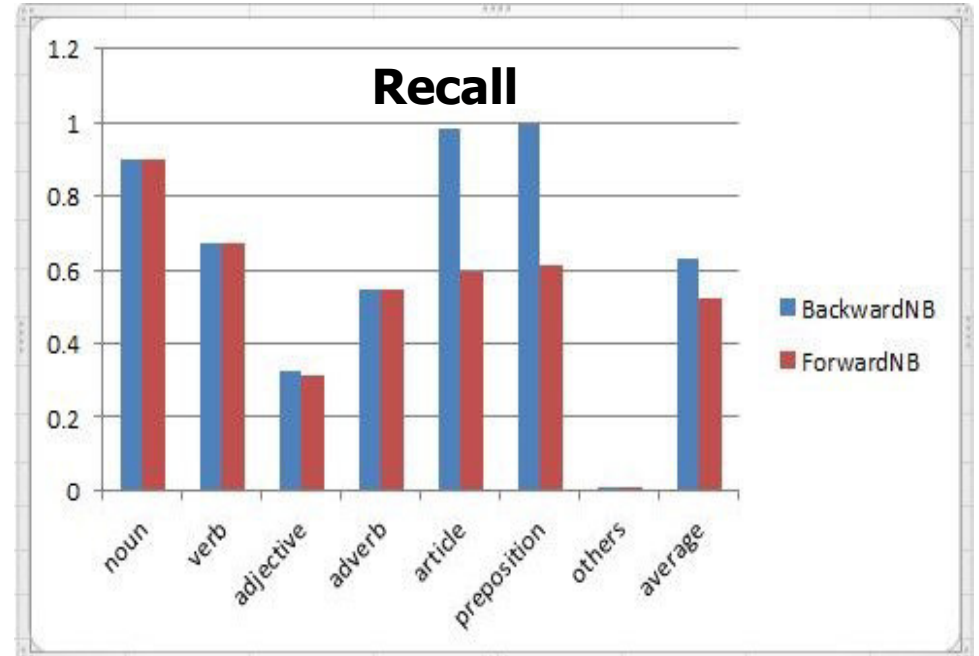
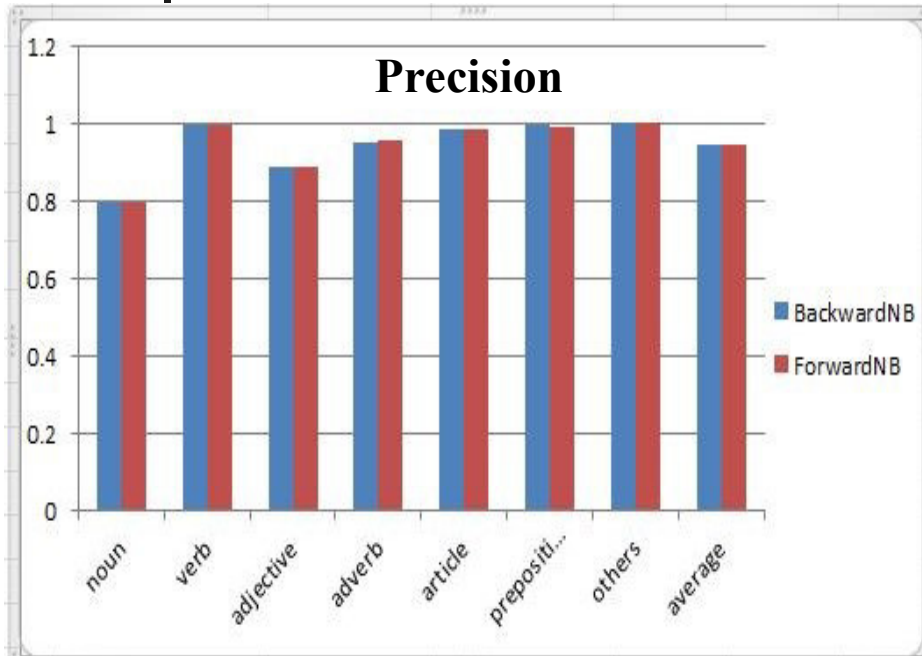
Accuracy

Precision  $\text{Precision} = \frac{TP}{TP+FP}$

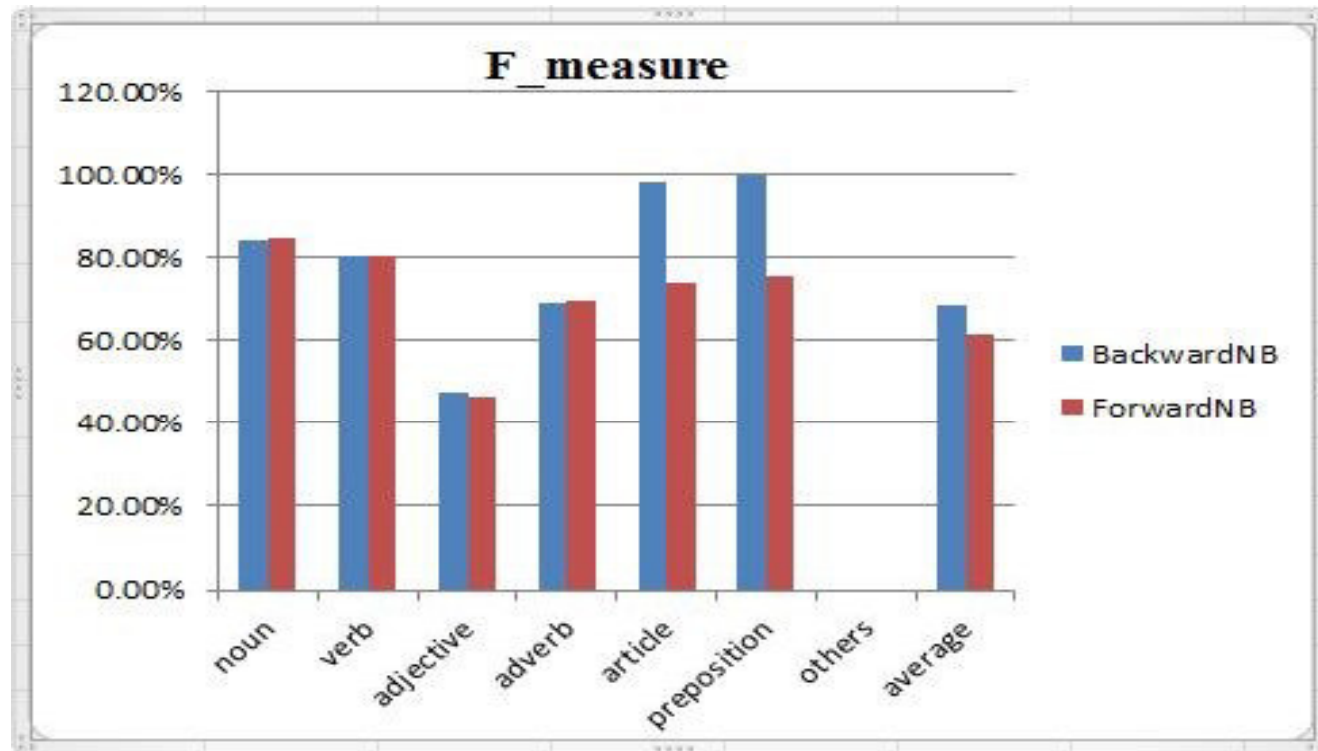
Recall  $\text{Recall} = \frac{TP}{TP+FN}$

F\_measure  $F\_measure = \frac{2*precision*recall}{precision+recall}$

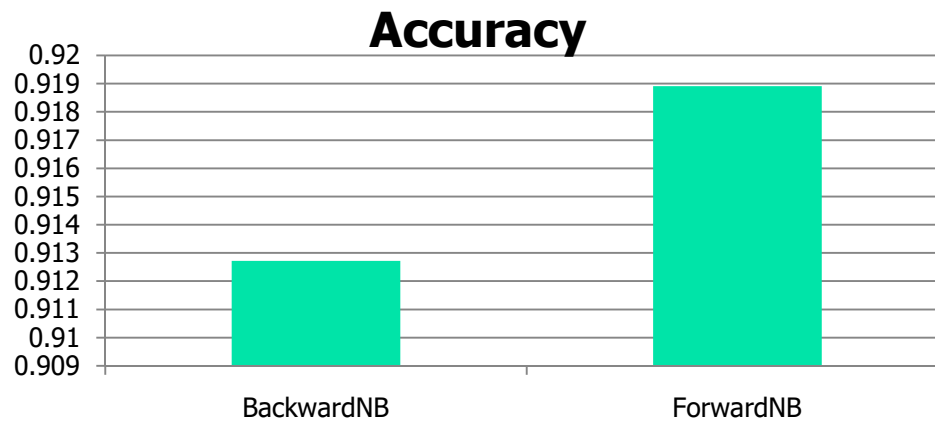
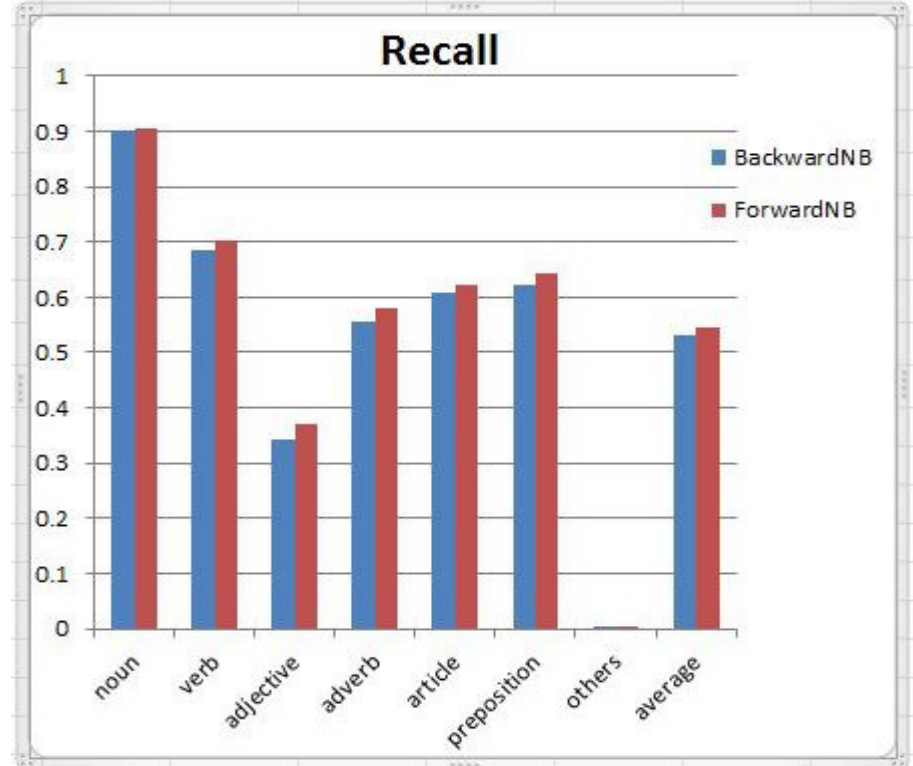
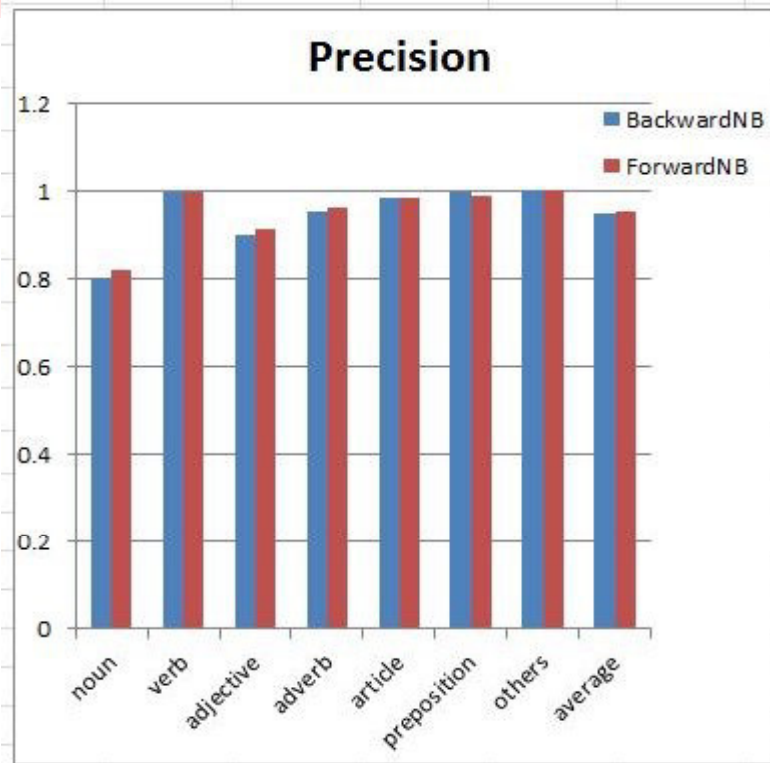
# Evaluation of classifiers performance



# Evaluation of classifiers performance



# The maximum obtainable for Naive Bayes classifier





# Conclusions and Further work

---

- ✓ There are POS which are more difficult to be predicted (e.g: adjectives, adverbs – accuracy under 60%)
- ✓ Nouns and verbs are easier to be predicted (accuracy over 80%)
- ✓ Backward Naïve Bayes offers much better results for the article and preposition
- ✓ Backward Naïve Bayes offers much better results than Forward Naïve Bayes
- ✓ Complete Naïve Bayes
- ✓ Variable window





# THE WEKA MULTILAYERPERCEPTRON CLASSIFIER

Daniel I. Morariu, Radu G. Cretulescu, Macarie Breazu

“Lucian Blaga” University of Sibiu,  
Engineering Faculty,  
Computer Science and Electrical and Electronics Engineering Department

---

The 8<sup>th</sup> International Conference on  
***„Information Science and Information Literacy 6<sup>th</sup> – 7<sup>th</sup> April 2017***

# OUR TEAM

---

- ✘ Our team is belonging to the Computer Science and Electrical and Electronic Engineering Department, LBUS
- ✘ We have some major research directions in the text mining field:
  - + Natural language processing
  - + Clustering and classification of text documents.
  - + Internet of things (IoT)

# MAIN OBJECTIVES

---

- ✘ The overall aim of our work is to improve the performance of classification and clustering for text documents, using supervised and unsupervised learning techniques.
- ✘ We are considering the following aspects:
  - + Document pre-processing/representation
    - ✘ Lemmatization, Part of Speech, Word Embedding,...
    - ✘ Reducing the dimension: Information Gain,
  - + Evaluate some classification algorithms for our purpose
    - ✘ Naïve Bayes,
    - ✘ Support Vector Machine
    - ✘ Backpropagation
    - ✘ Expectation Maximization,  $k$ -Nearest Neighbor



# EVALUATION

**Accuracy:** represents the percentage of correct grouped documents according to the class label.

$$\textit{precision}(C_i, S_j) = \frac{|C_i \cap S_j|}{|C_i|}$$

$$\textit{recall}(C_i, S_j) = \frac{|C_i \cap S_j|}{|S_j|}$$

**F-measure:**

$$F - \textit{measure}(C_i, S_j) = \frac{2 \cdot \textit{precision}(C_i, S_j) \cdot \textit{recall}(C_i, S_j)}{\textit{precision}(C_i, S_j) + \textit{recall}(C_i, S_j)}$$

$C_i$  document category and  $S_j$  a known label

# WEKA FRAMEWORK

Machine Learning Group at the University of Waikato  
<http://www.cs.waikato.ac.nz/ml/weka/>

Program Visualization Tools Help



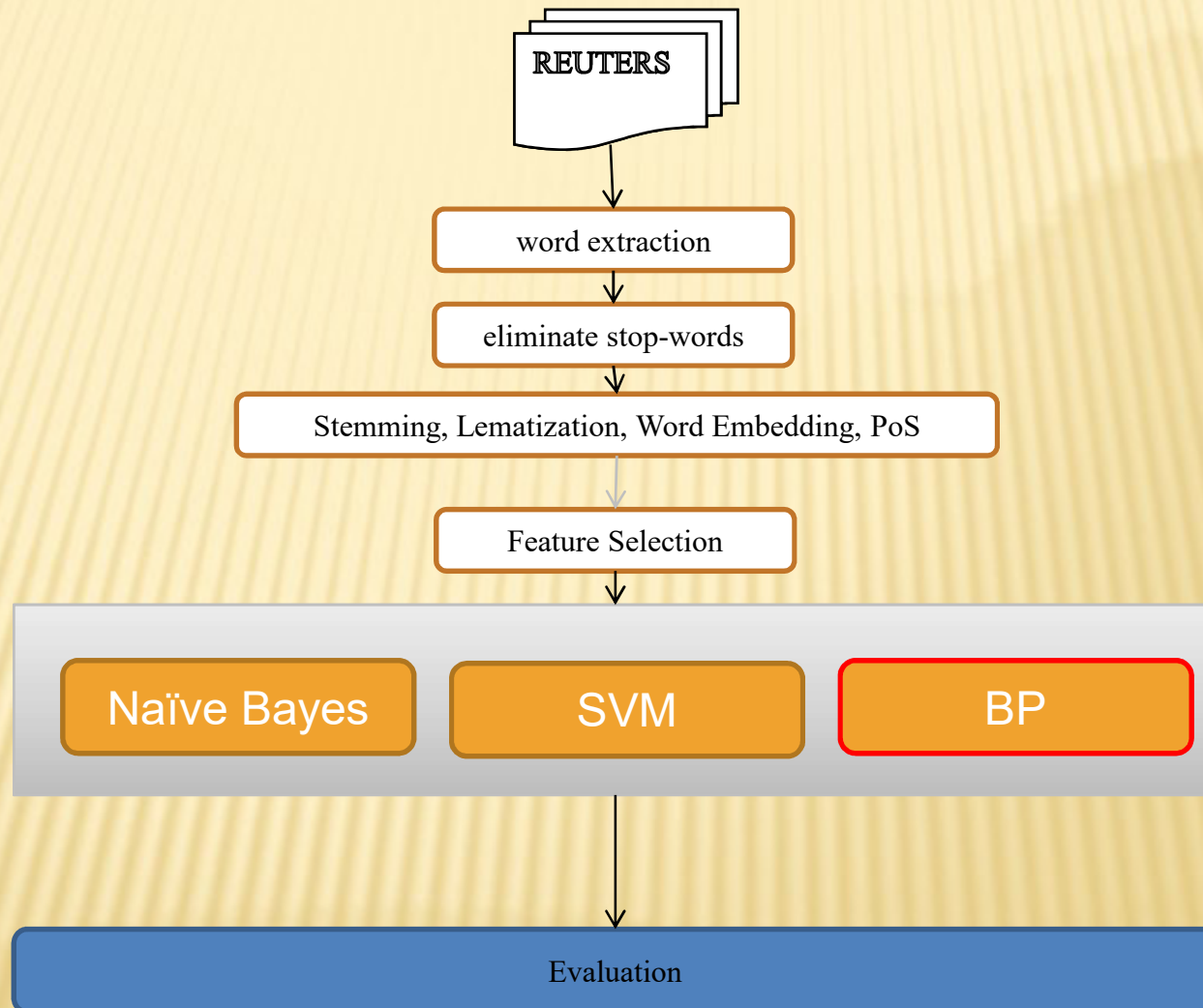
**WEKA**  
The University  
of Waikato

Waikato Environment for Knowledge Analysis  
Version 3.6.13  
(c) 1999 - 2015  
The University of Waikato  
Hamilton, New Zealand

Applications

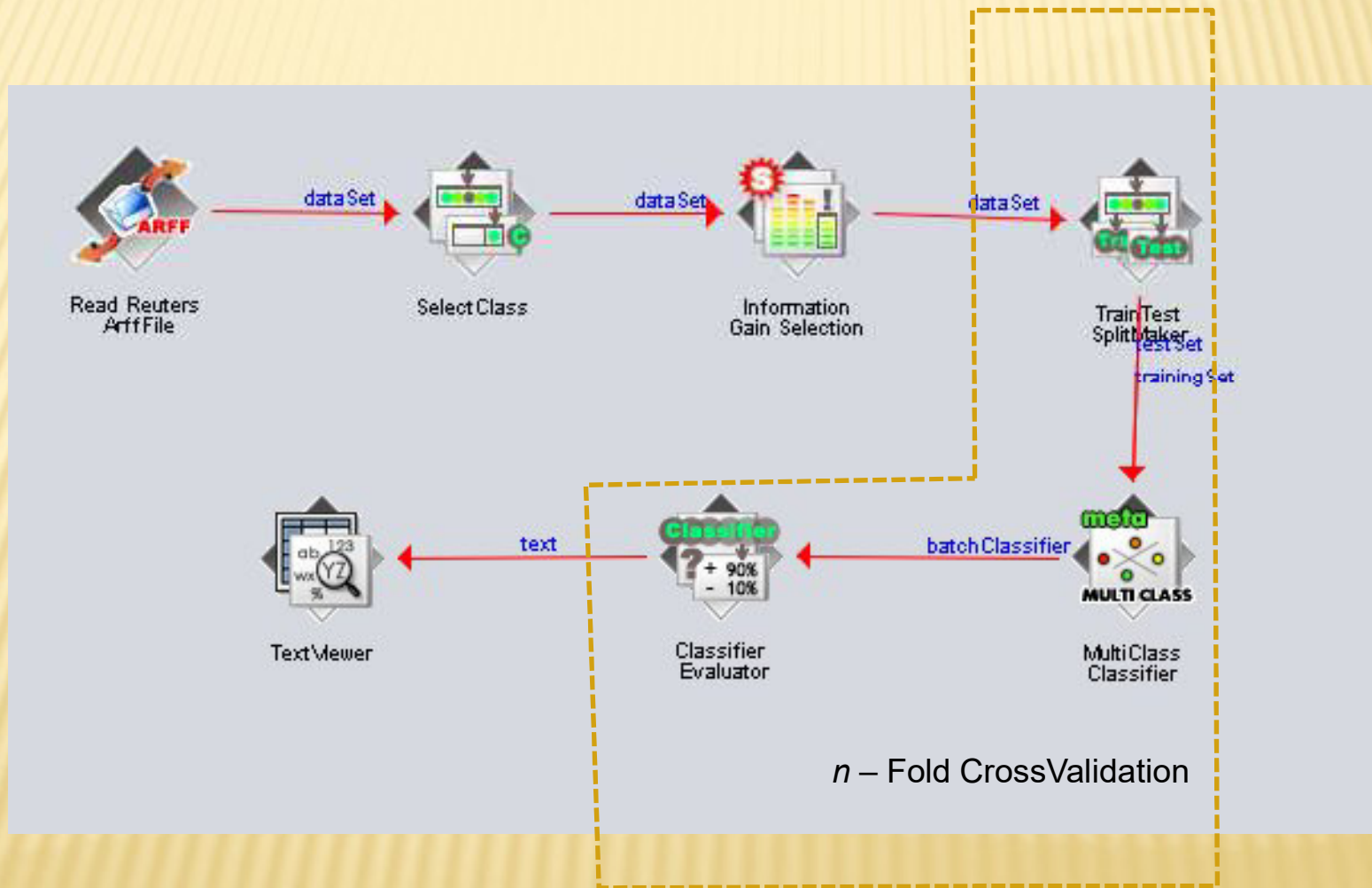
- Explorer
- Experimenter
- KnowledgeFlow
- Simple CLI

# THE FLOWCHART OF OUR EXPERIMENTS





# THE WORKFLOW (WEKA FRAMEWORK)



# WEKA MODULES CONFIGURATION

The image displays two side-by-side screenshots of WEKA configuration windows. The left window is titled "MultiClassClassifier options" and the right window is titled "weka.classifiers.functions.MultilayerPerceptron".

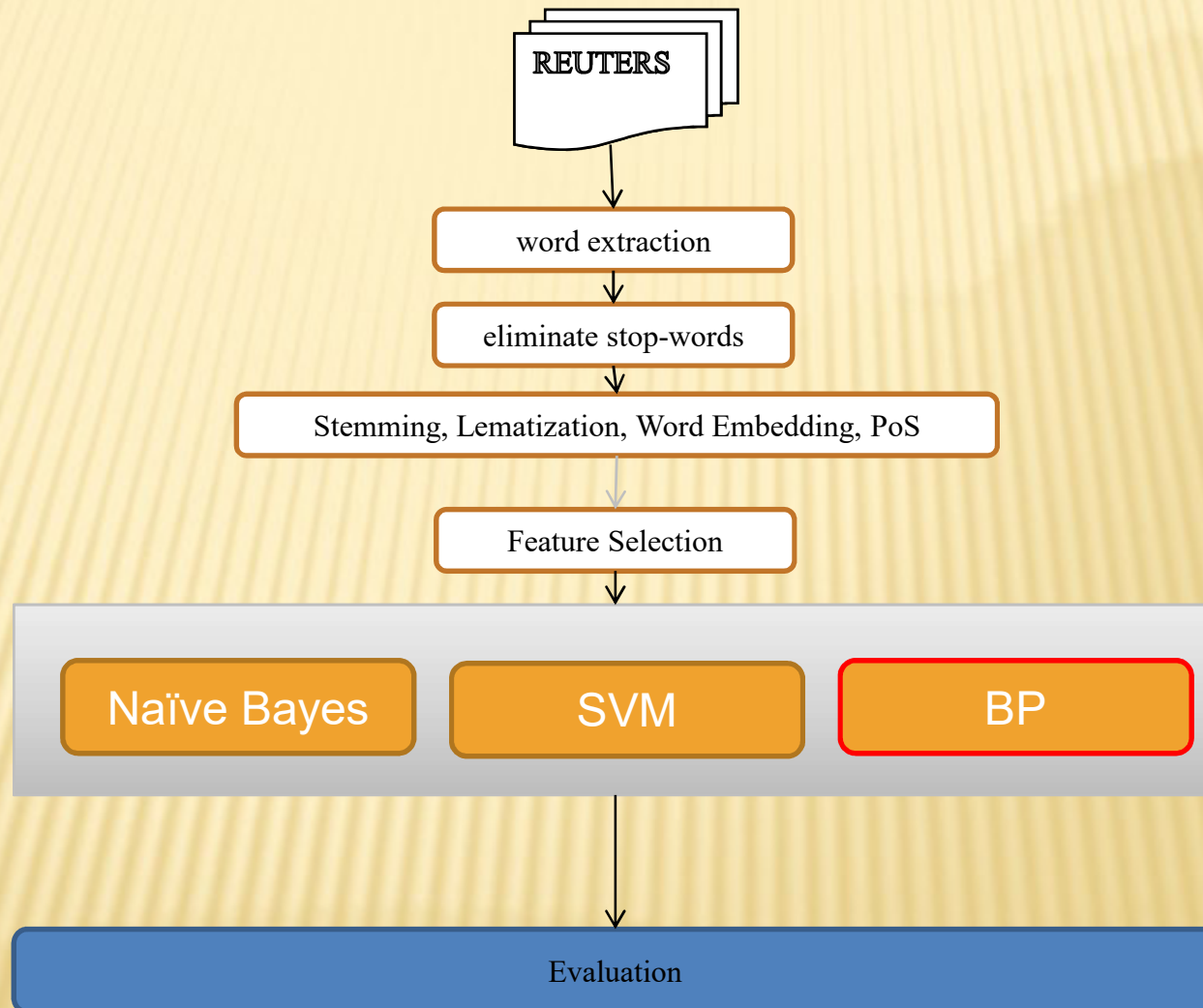
**MultiClassClassifier options:**

- About:** A metaclassifier for handling multi-class datasets with 2-class classifiers. Buttons: More, Capabilities.
- batchSize:** 100
- classifier:** Choose **MultilayerPerceptron -L 0.3 -M 0.2 -N 500 -V 0 -S**
- debug:** False
- doNotCheckCapabilities:** False
- logLossDecoding:** False
- method:** 1-against-all
- numDecimalPlaces:** 2
- randomWidthFactor:** 2.0
- seed:** 1
- usePairwiseCoupling:** False
- Additional options:**
  - Classifier model to load: [ ] Browse...
  - Reset incremental classifier: False
  - Update incremental classifier: True
- Buttons: OK, Cancel

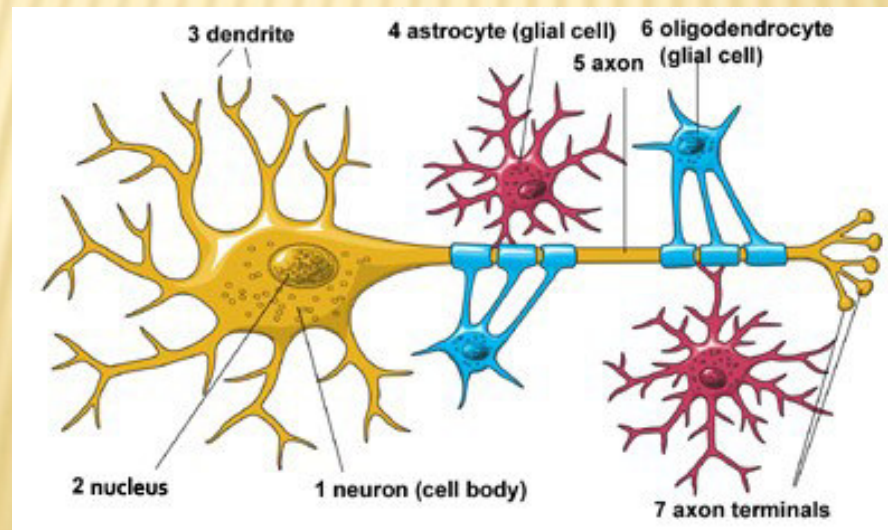
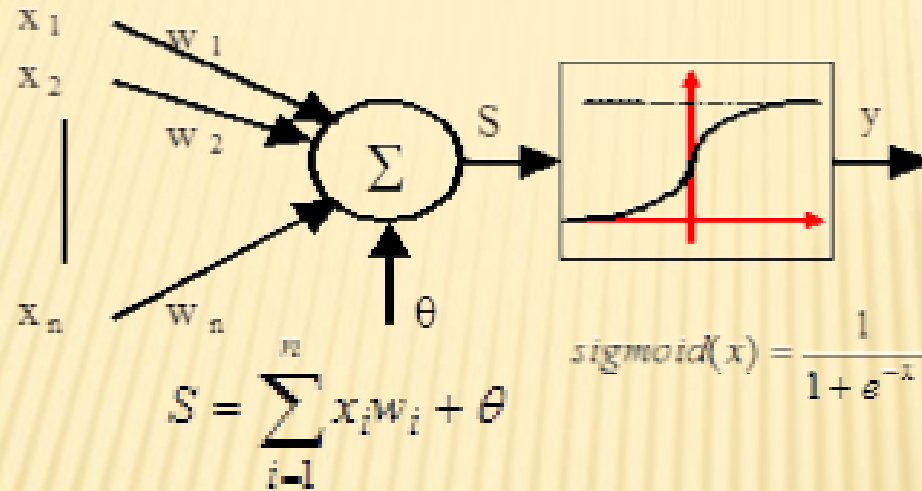
**weka.classifiers.functions.MultilayerPerceptron:**

- About:** A Classifier that uses backpropagation to classify instances. Buttons: More, Capabilities.
- GUI:** False
- autoBuild:** True
- batchSize:** 100
- debug:** False
- decay:** False
- doNotCheckCapabilities:** False
- hiddenLayers:** a (circled in orange)
- learningRate:** 0.3
- momentum:** 0.2
- nominalToBinaryFilter:** True
- normalizeAttributes:** True
- normalizeNumericClass:** True
- numDecimalPlaces:** 2
- reset:** True
- seed:** 0
- trainingTime:** 500
- validationSetSize:** 0
- validationThreshold:** 20

# THE FLOWCHART OF OUR EXPERIMENTS

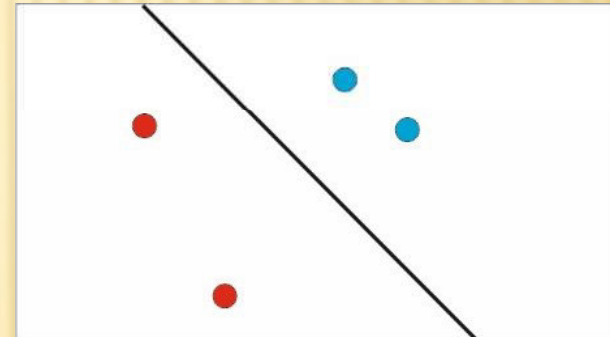
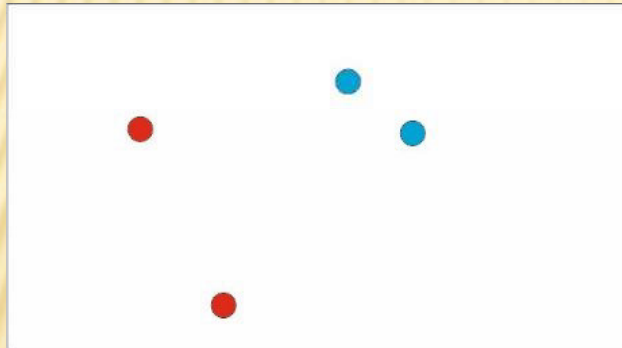


# PERCEPTRON

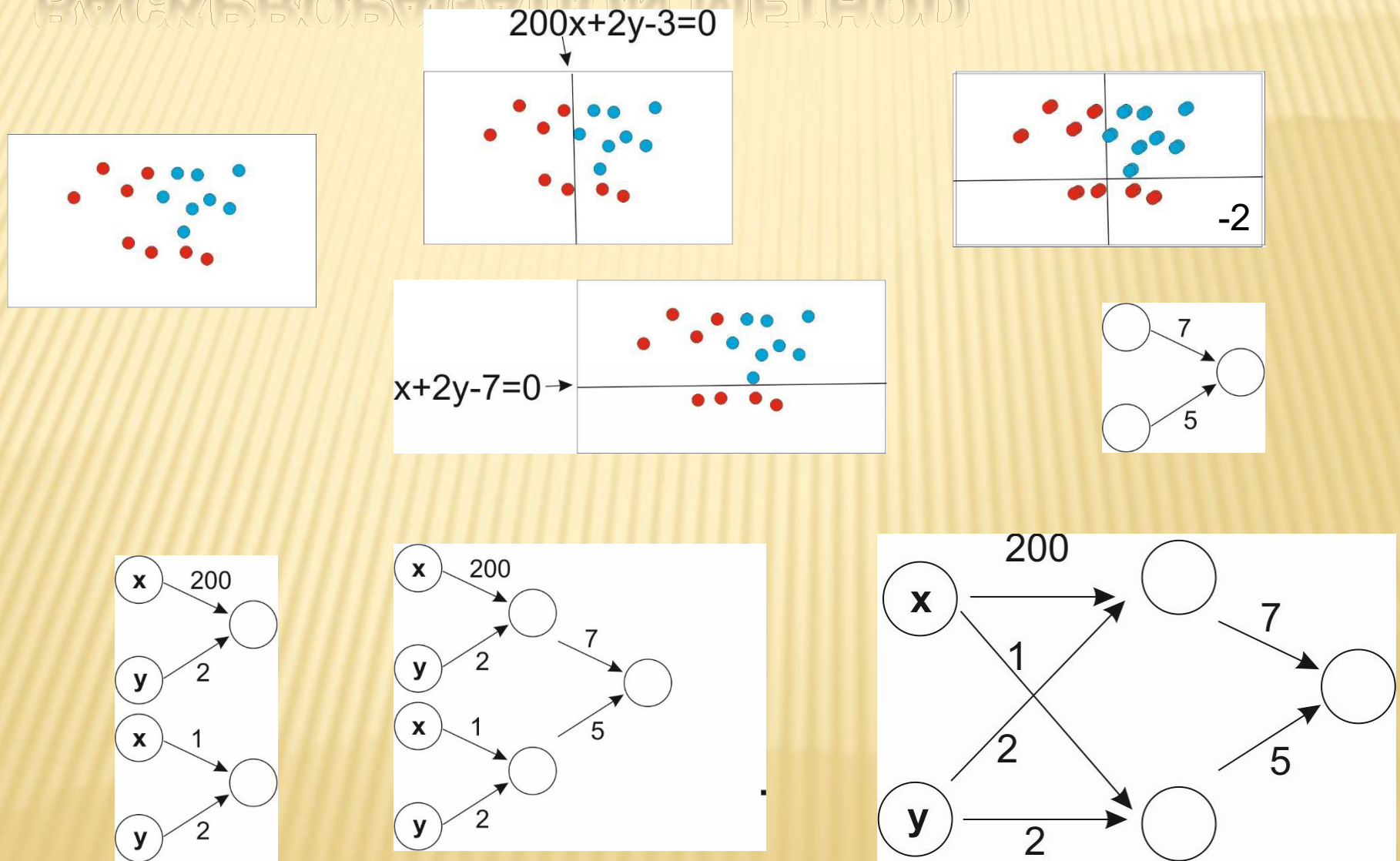


# BACKPROPAGATION METHOD

- ✘ Problem: To find a line which separates the red points from the blue ones.

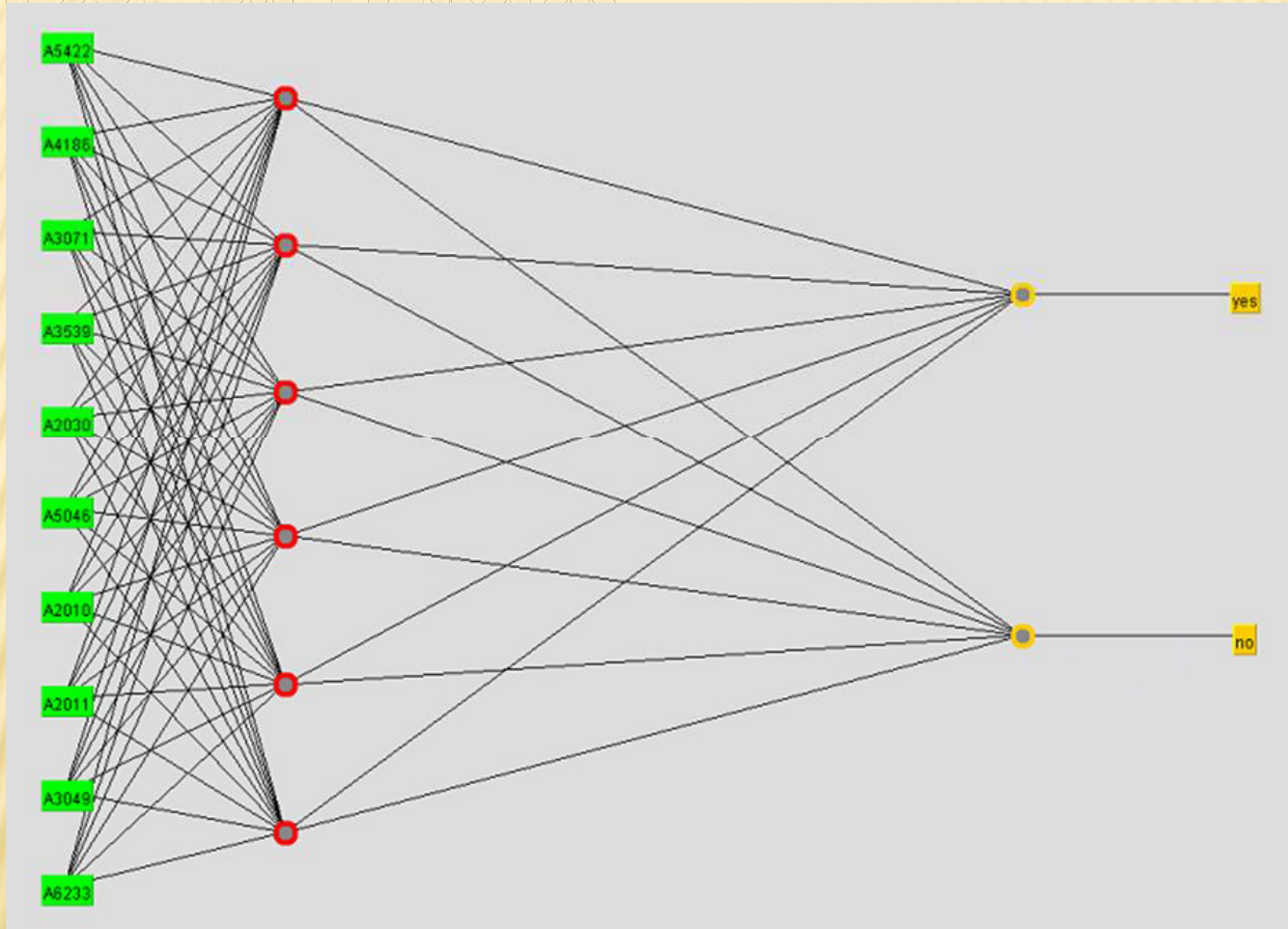


# BACKPROPAGATION METHOD



So we have created our neural network

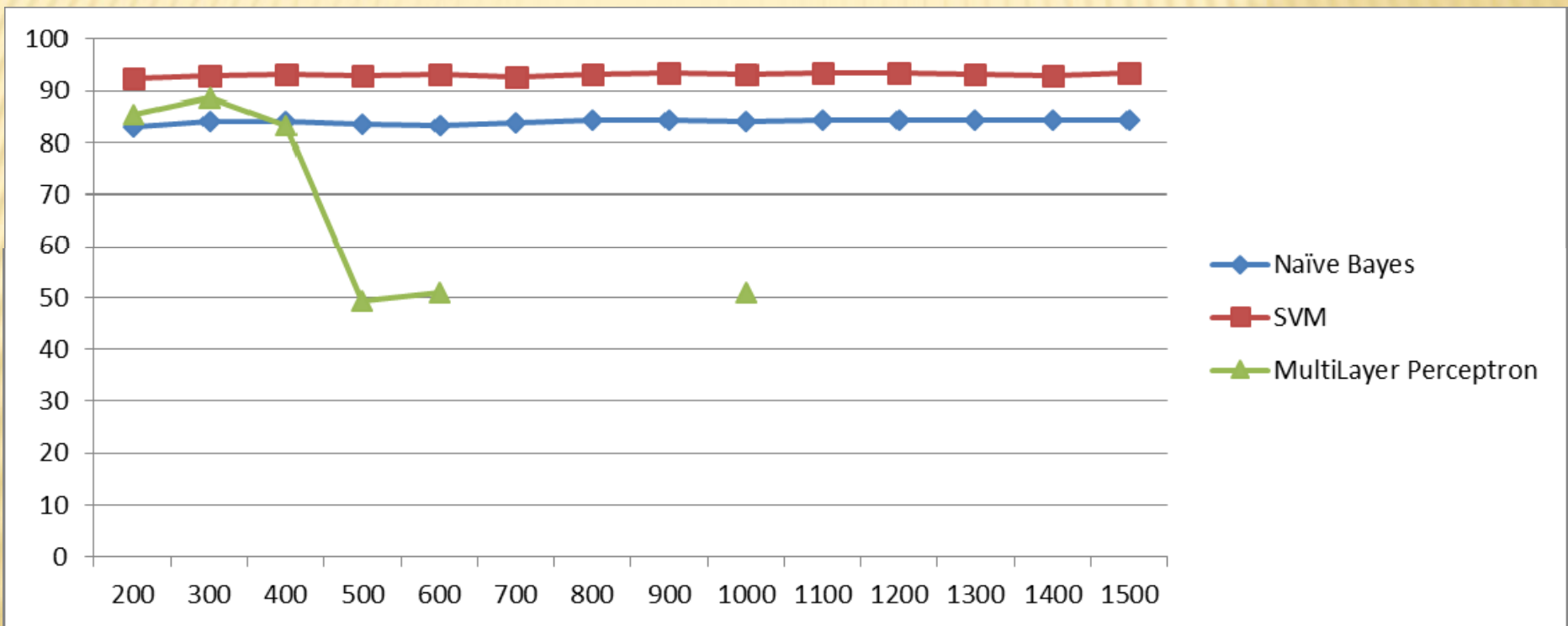
# NEURAL NETWORK



Input Layer    Hidden Layer

Output Layer

# RESULTS - ACCURACY





# CONCLUSIONS

---

- ✘ Easy to use for system design evaluation;
- ✘ Accepts a lot of learning algorithms and a lot of parameters;
- ✘ Have the possibility to implement the your own algorithms and add them to the system;
- ✘ Drawback is the input format;
- ✘ Doesn't perform well with large data sets, being designed for laboratory experiments;

---

Thank You!

# Re-thinking library spaces - Group working areas and their impact on library users

Ioana Narcisa CREȚU,  
Cristina PÂRVU

The 8TH INTERNATIONAL CONFERENCE in ROMANIA  
on  
Information Science and Information Literacy,  
April 6th - 7th 2017

# Re-thinking library **spaces** is about Communication?





# COMMUNICATION

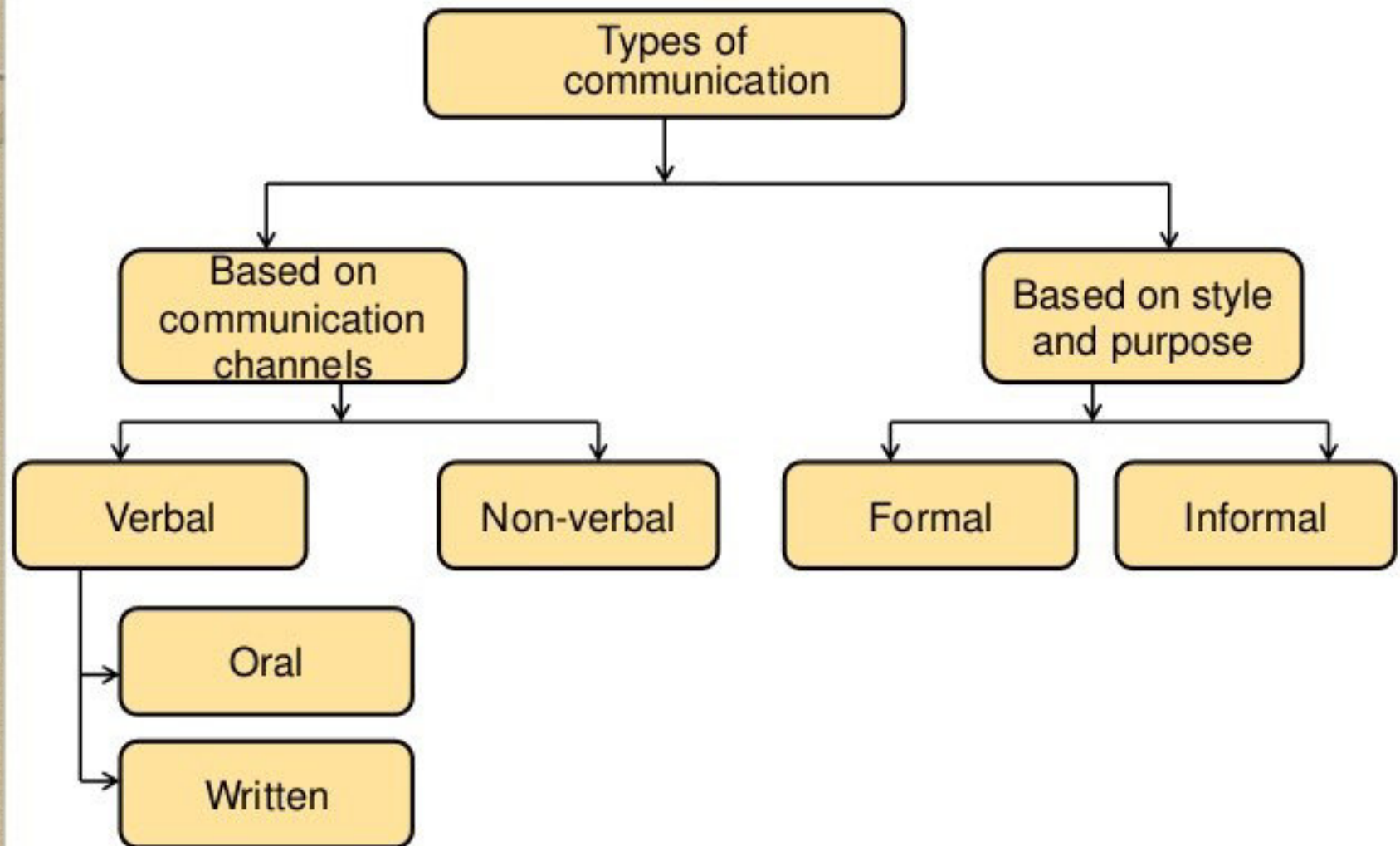
People Communicate With Each Other In A Number Of Ways That Depend Upon The Message And Its Context In Which It Is Being Sent. Choice Of Communication Channel And Your Style Of Communicating Also Affects Communication.

**So, There Are Variety Of Types Of Communication.**

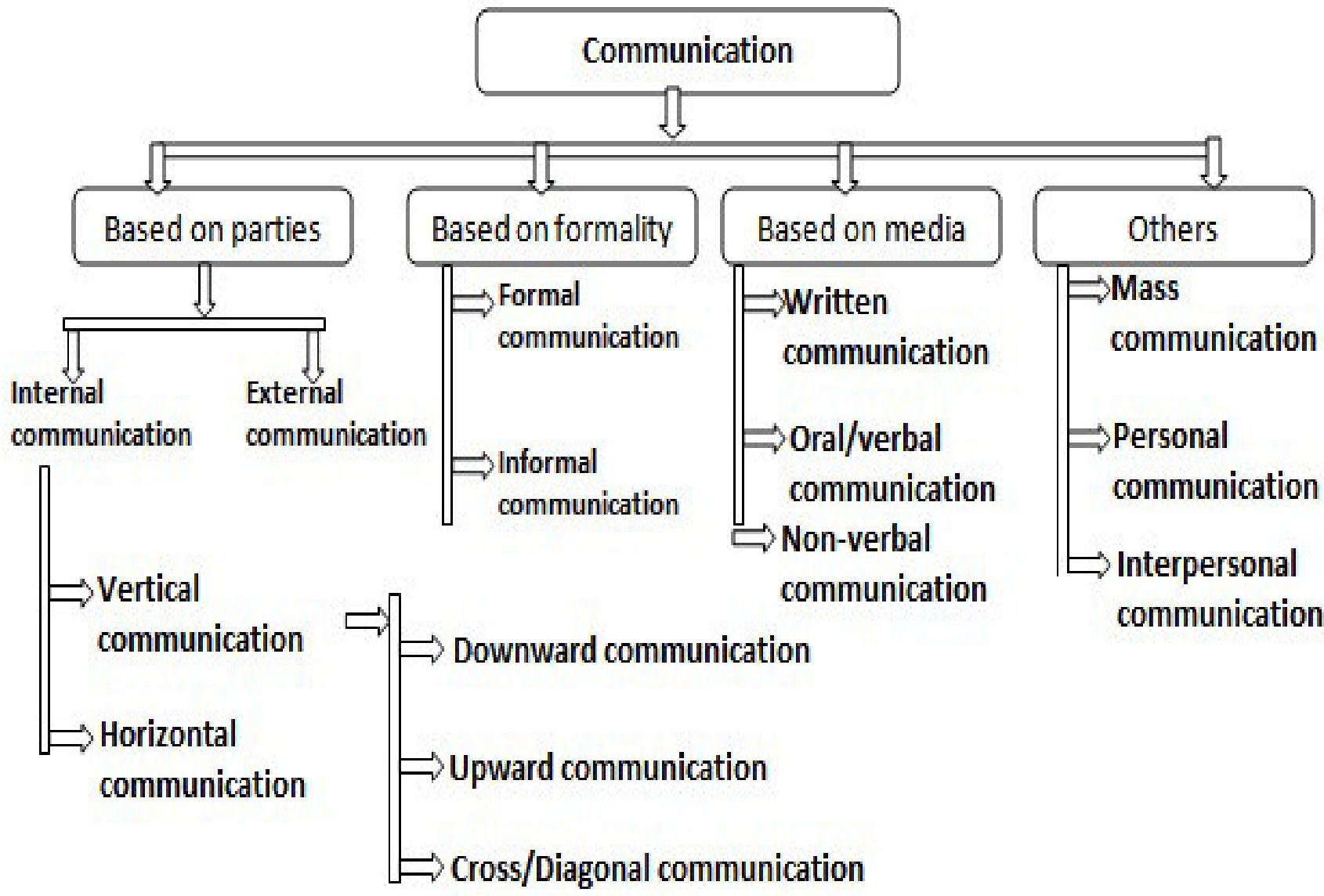
# Forms of Communication

- People communicate with each other in a number of ways that depend upon the message and its context in which it is being sent. Choice of communication channel and your style of communicating also affects communication. So, there are variety of types of communication.

# Types of communication







# **Types of communication based on the communication channels used are**

- Verbal Communication
- Nonverbal Communication



Verbal

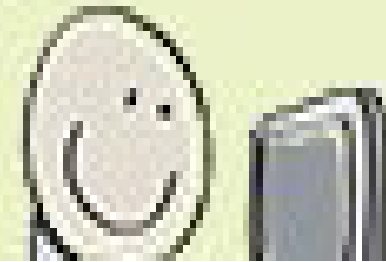
Nonverbal

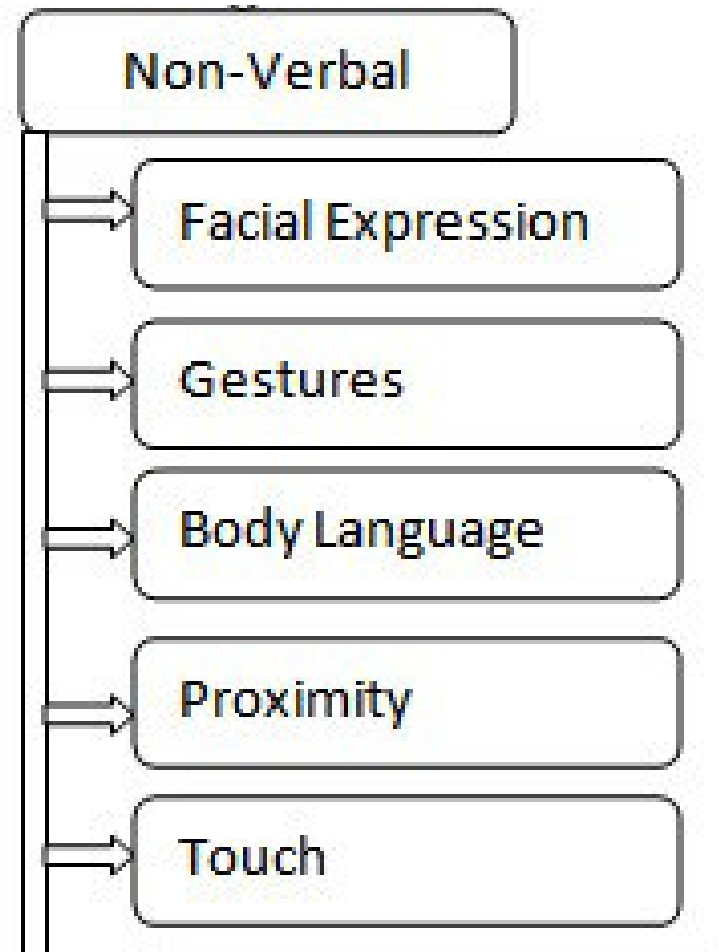
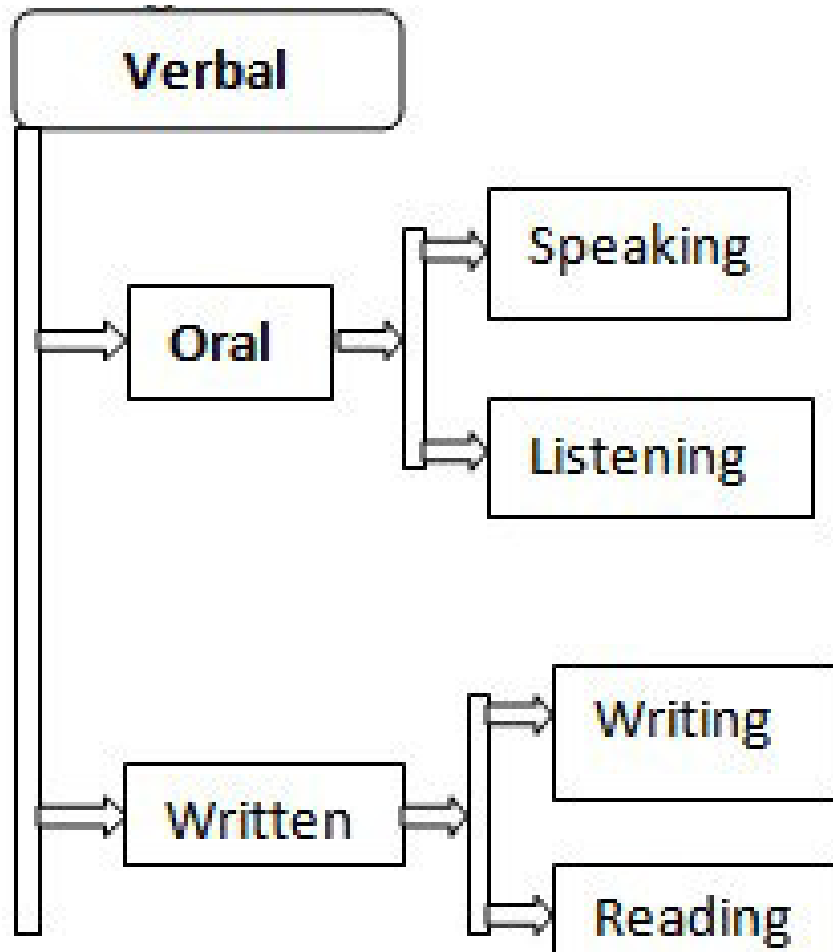
Communication

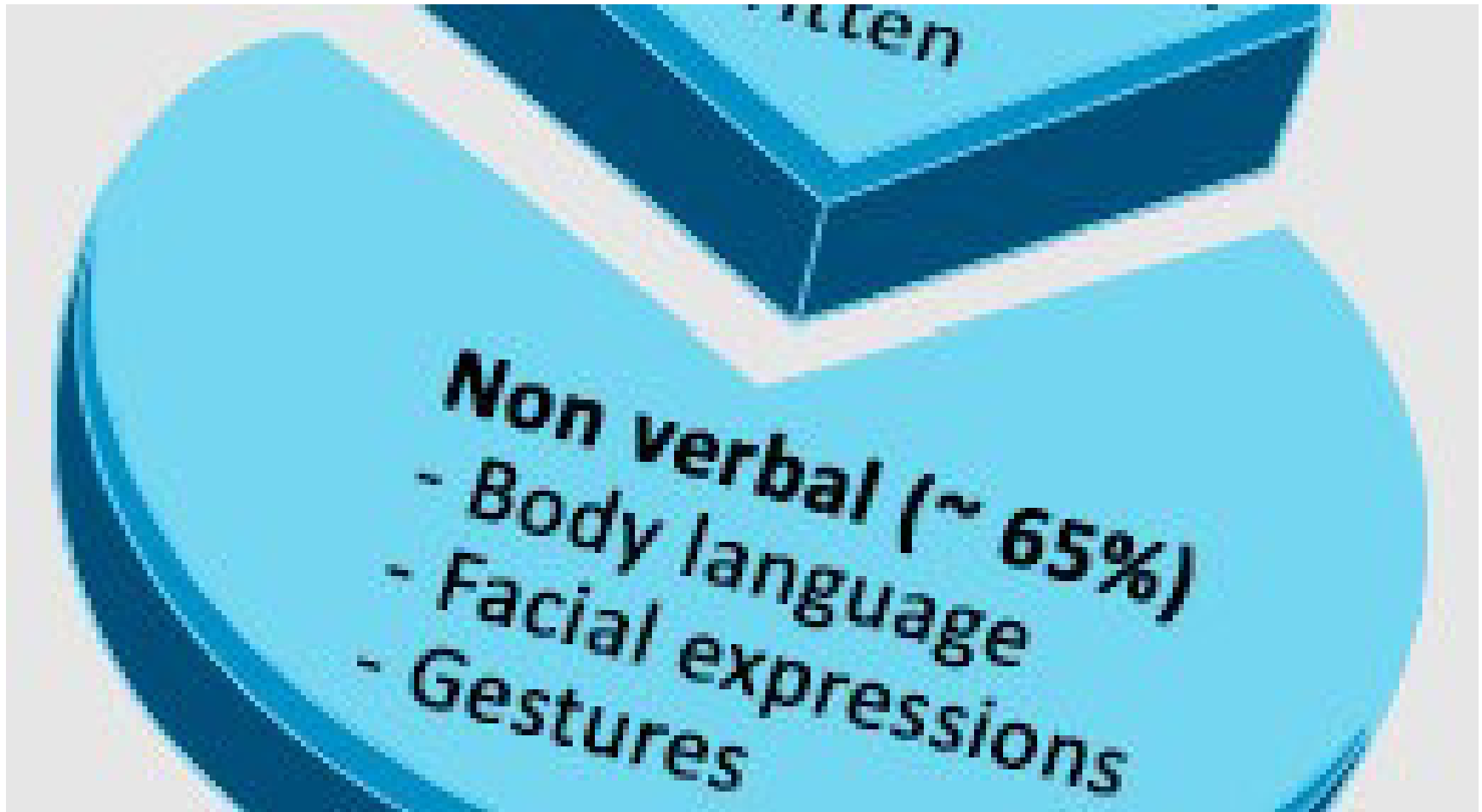
Written

Visual

Writting a  
letter to  
the boss.







# What about the message?

- So in order to deliver the right message, you must put yourself on the other side of the table and think from your receiver's point of view. Would he understand the message? how it would sound on the other side of the table?

# Intimate/private zone



# Personal zone





# Social zone



# Public space



# Artefacts



# Traditional??



# Modern



# Open Space



# Open/close space



# Open/Intimate Intrapersonal





# Public/Personal/Intime Communication in small groups



# Public/Interpersonal



Close/open



# Close Intrapersonal



# Questions?





# **INTEGRATING CONTROLLED VOCABULARY IN THE INSTITUTIONAL DIGITAL REPOSITORY. CASE STUDY: DIGITAL COLLECTIONS OF THE LBUS LIBRARY**

**Rodica VOLOVICI, Elena MĂRGINEAN, Liliana OPRESCU, Ioan VIȘA**

The Library of the Lucian Blaga University of Sibiu

Information Science & Information Literacy - 2017

# ABSTRACT

- Through ***institutional digital repositories***, universities offer open access to the scientific publications, courses or old and rare documentary resources. These printed documents have been digitized, described, indexed and cataloged in dedicated systems.
- To facilitate the search and especially to make it efficient and accurate, digital resources must be described and classified as fully and rigorously chosen keywords, accurately.
- The archived information is indexed by **keywords**.
- The information contained in the digital archives become relevant and are thus discovered by careful indexing by well-chosen **keywords**
- In this paper we present the collective experience in building the Digital Collections of the Library LBUS, various gathered over the years in the dedicated system - DSpace.
- *Keywords: information retrieval, controlled vocabulary, digital repository*



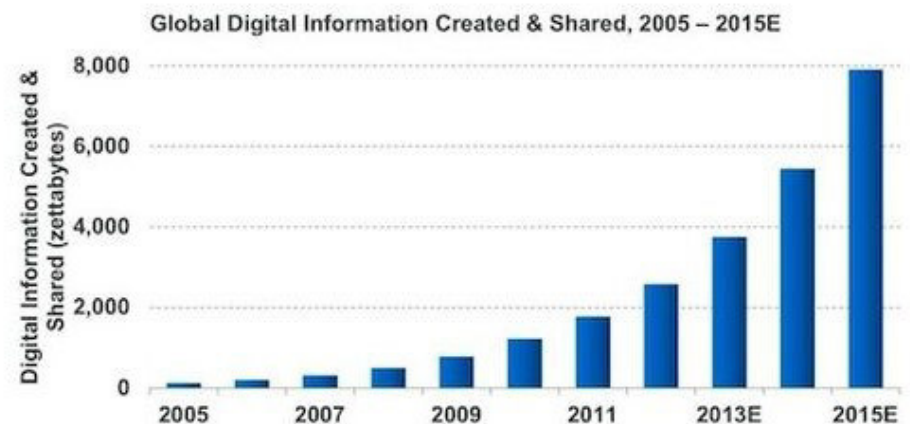
# INFORMATION SCIENCE:

- a short definition - [Merriam-Webster](#) :
- I.S = “*the collection, classification, storage, retrieval, and dissemination of recorded knowledge treated both as a pure and as an applied science*”
- Today & critical, two problems:
  - *informations exponential growth*
  - *communication ways growth.*

Ways to solve the problems?

- technological : automatic indexing
- & **human : librarians as indexers !**

Amount of global digital information created & shared – from documents to pictures to tweets - grew 9x in five years to nearly 2 zettabytes\* in 2011, per IDC.



Source: IDC 5/2011 report “Extracting Value from Chaos”



# PREMISES

- in recent decades we have witnessed an exponential information explosion: development of the Internet, increase computer storage capacity, computing power... => the ***information society*** !
- **Information Retrieval Systems (IRS)** = critical status
- IRS includes two main processes:
  - ***indexing process***: weighted terms (keywords) summarizing best the information content
  - ***searching***: retrieval of information matching the query.
- *Index language* is defined as a controlled set of terms selected from natural language to represent the condensed form of the documents.



# Case study of digital content indexing:

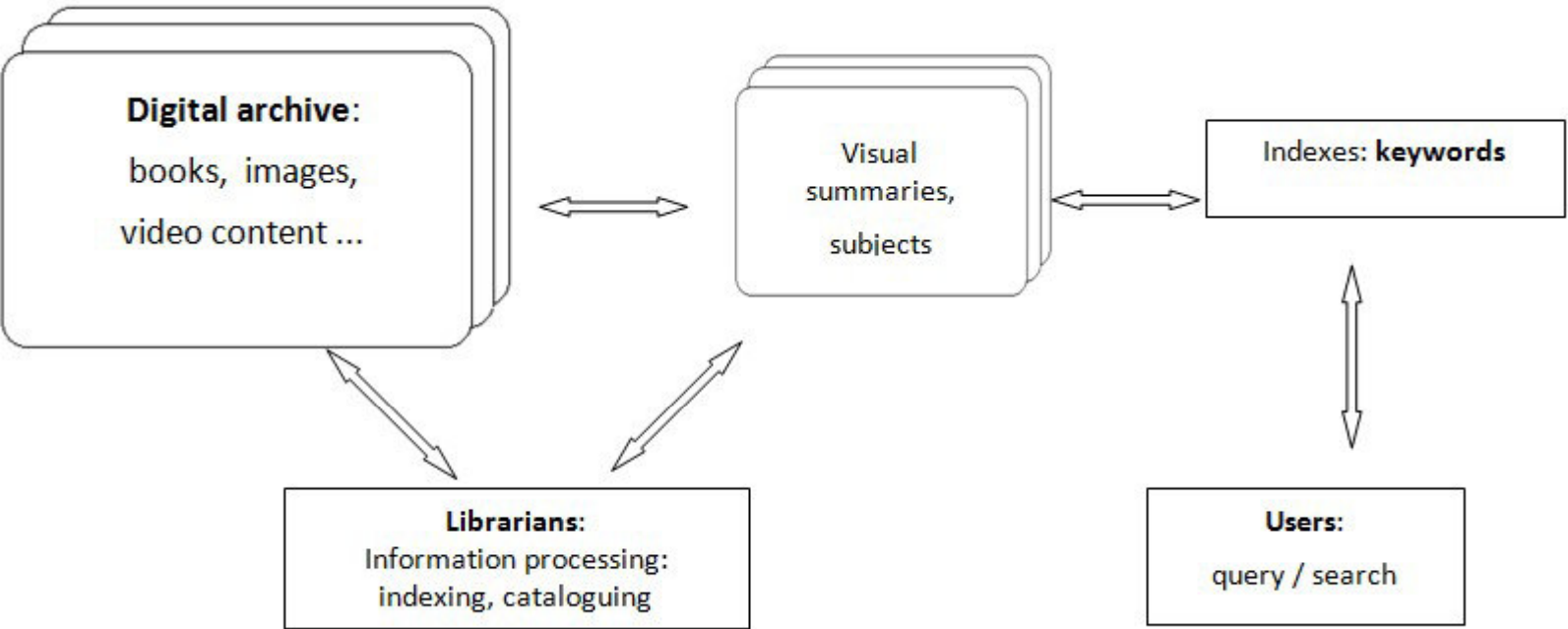


Fig 1. Scheme of a digital content indexing system



# CASE STUDY: DIGITAL LIBRARY OF THE LBUS

- LBUS Library has developed in recent years various digital collections, in local dedicated system - DSpace:

- **Europeana Libraries 2011-2012 - Sibiu**

- **Europeana Cloud 2013-2016 - Sibiu**

- **Biblioteca Digitală a ULBS - Sibiu Smart 2013**

- **2016 - Biblioteca digitala a ULBS - Mijloace traditionale de comunicatie si transport**

- **2016 - Prezervarea si valorificarea patrimoniului - istoria mijloacelor de transport din judetul Sibiu**

- Biblioteca Digitala a ULBS (Colectii speciale)

- Biblioteca Digitală a Facultatii de Teologie "Andrei Saguna" din Sibiu

- Publicatii stiintifice nationale





## Search DSpace

### Advanced Search

→ [Home](#)

## Browse

→ [Communities & Collections](#)

→ [Issue Date](#)

→ [Author](#)

→ [Title](#)

→ [Subject](#)

## Sign on to:

→ [Receive email updates](#)

→ [My DSpace](#)  
authorized users

→ [Edit Profile](#)

→ [Help](#)

→ [About DSpace](#)

Digital Library of the LBUS >

Welcome!

## Search

Enter some text in the box below to search DSpace.

## Communities in DSpace

Choose a community to browse its collections.

[Biblioteca digitala a ULBS - Mijloace traditionale de comunicatie si transport](#)

[Prezervarea si valorificarea patrimoniului - istoria mijloacelor de transport din judetul Sibiu](#)

[Biblioteca Digitala a ULBS \(Colectii speciale\)](#)

[Biblioteca Digitală a Facultatii de Teologie "Andrei Saguna" din Sibiu](#)

[Biblioteca Digitală a ULBS - Sibiu Smart 2013](#)

[Europeana Cloud 2013-2016 - Sibiu](#)

[Europeana Libraries 2011-2012 - Sibiu](#)

[Publicatii stiintifice nationale](#)



## AMOUNT & TYPES OF DATA – IN THE DIGITAL LIBRARY

APRIL 2017

- Total number of files = 7600
- Amount in GB = 38,638
  
- Pdf's = 4.370 files – 32,653 gb
- Jpg's = 3.166 files – 5,474 gb
- Wmv's = 59 files – 431,55 mb
- - 2 doc, 1 zip, 1 png



# DSPACE SYSTEM

- searching is made through several registration fields:
  - search.index.1 = author:dc.contributor.\*
  - .2 = author:dc.creator.\*
  - .3 = title:dc.title.\*
  - .4 = keyword:dc.subject.\*
  - .5 = abstract:dc.description.abstract
  - .6 = author:dc.description.statementsofresponsibility
  - .7 = series:dc.relation.ispartofseries
  - .8 = abstract:dc.description.tableofcontents
  - .9 = mime:dc.format.mimetype
  - .10 = sponsor:dc.description.sponsorship
  - .11 = id:dc.identifier.\*
  - .12 = language:dc.language.iso



In the LBUS digital library, the search is made in the fields:

- *Contributor (author, editor, illustrator.), title, creator, issue date, language, keyword-subject, abstract, description*

DC Field	Value	Lang
<b>dc.contributor.author</b>	Iorga, Nicolae	-
<b>dc.coverage.spatial</b>	Bucuresti	-
<b>dc.coverage.temporal</b>	1905	-
<b>dc.date</b>	1905	-
<b>dc.date.available</b>	2012-02-16T18:32:39Z	-
<b>dc.date.issued</b>	1905	-
<b>dc.identifier</b>	http://digital-library.ulbsibiu.ro/dspace/retrieve/4321	-
<b>dc.identifier.uri</b>	http://digital-library.ulbsibiu.ro/dspace/handle/123456789/199	-
<b>dc.description</b>	Ca autor de studii cu caracter istoric, Nicolae Iorga a acoperit prin scrierile sale o paleta vasta, atingand, practic, toate ramurile si perioadele istoriei („Acte și fragmente cu privire la istoria romanilor” in trei volume, aparute intre 1895 si 1897: „Manuscripte din bibliotecile straine relative la istoria romanilor”, doua volume in 1898; „Istoria romanilor in chipuri si icoane”, două volume, 1905; monumentală „Istorie a romanilor” in 11 volume aparute intre 1930 si 1939) mergand apoi pana la varii domenii, precum istoria bisericii („Istoria bisericii romanesti si a vietii religioase a romanilor”, aparuta in doua volume, in 1908 si 1909, la Valenii de Munte), a armatei („Istoria armatei romanesti”, doua volume, in 1910 si 1919), a comertului („Istoria comertului romanesc”, in doua volume aparute in 1925 si 1928), dar mai ales asupra literaturii si a istoriei acesteia, prin lucrari precum „Istoria literaturii romanesti contemporane”, 1934, „Istoria literaturii romanesti in veacul al XIX-lea de la 1821 inainte, in legatura cu dezvoltarea culturala a neamului” (trei volume, intre 1907 si 1909) etc., prin care a ierarhizat si organizat un material impresionant, oferind istoriei literaturii fundamente si criterii stiintifice, punand bazele unei discipline pe care a ilustrat-o stralucit.	-
<b>dc.description.abstract</b>	"Istoria romanilor in chipuri si icoane. Volumul I" cuprinde conferintele academice sustinute de catre Nicolae Iorga in perioada 1904-1905, la invitatia "Societatii Femeilor Romane" din Bucuresti, precum si o prelegere sustinuta la "Societatea Geografica" in aceeasi perioada.	-
<b>dc.format</b>	224 p.: il.; 18 cm	-
<b>dc.language.iso</b>	Romana	en
<b>dc.publisher</b>	Institutul Grafic "Minerva"	-
<b>dc.rights</b>	Mitropolia Ardealului	-
<b>dc.source</b>	Biblioteca Facultatii de Teologie "Andrei Saguna" din Sibiu	-
<b>dc.subject</b>	Romania	-
<b>dc.subject</b>	politica externa	-
<b>dc.subject</b>	domn fanariot	-
<b>dc.subject</b>	mazilire	-
<b>dc.subject</b>	curte domneasca	-
<b>dc.subject</b>	imbracaminte	-
<b>dc.subject</b>	viata sociala	-
<b>dc.title</b>	Istoria romanilor in chipuri si icoane. Volumul I	en
<b>dc.title.alternative</b>	Romanian History in Images and Icons. Tome I	en
<b>dc.type</b>	Book	en
<b>dc.europeana.provider</b>	Biblioteca Universitatii "Lucian Blaga" Sibiu	-
<b>dc.europeana.type</b>	Book	-

Fig - The structure of the data fields for book

Appears in Collections: [Transylvania history and religion in old and rare books](#)

## Fig - The structure of the data fields for cultural event

[Digital Library of the LBUS >](#)  
[Europeana Libraries 2011-2012 - Sibiu >](#)  
[Sibiu - European Capital of Culture 2007 >](#)  
[Sibiu - 2007-07 July >](#)

Please use this identifier to cite or link to this item: <http://digital-library.ulbsibiu.ro/123456789/69>

### Full metadata record

DC Field	Value	Language
<b>dc.contributor</b>	Casa de Cultură a Municipiului Sibiu (organizator)	-
<b>dc.coverage.spatial</b>	Sibiu	-
<b>dc.coverage.temporal</b>	2007-07-04 / 2007-07-13	-
<b>dc.creator</b>	Bugariu, Adrian (fotograf)	-
<b>dc.date</b>	2007-07-04 / 2007-07-13	-
<b>dc.date.available</b>	2011-07-26T12:28:51Z	-
<b>dc.date.issued</b>	2007-07-04	-
<b>dc.identifier</b>	<a href="http://digital-library.ulbsibiu.ro/dspace/retrieve/964">http://digital-library.ulbsibiu.ro/dspace/retrieve/964</a>	-
<b>dc.identifier.uri</b>	<a href="http://digital-library.ulbsibiu.ro/dspace/handle/123456789/69">http://digital-library.ulbsibiu.ro/dspace/handle/123456789/69</a>	-
<b>dc.description</b>	In perioada 4-13 iulie 2007 a avut loc la Sibiu o mini stagiune de balet, in cadrul careia au evoluat in fata publicului dansatori din Germania si Italia. Au fost prezentate spectacole de balet apartinand atat stilului clasic, cat si celui contemporan. Din Germania au fost prezente două companii diferite, Underground Theater, cu spectacolul de balet contemporan, El Amor Brujo si Baletul Gartnerplatz din Munchen cu doua reprezentatii: Variatiuni de Goldberg si Rapsodia Albastra de Georg Gershwin, in cadrul unui singur spectacol care a reprezentat o Gala a Baletului Gärtnerplatz. Din Italia a fost prezentat spectacolul de balet contemporan intitulat El Tango de la Vida realizat de compania New Space.	en
<b>dc.description.abstract</b>	Spectacol de balet „EL TANGO DE LA VIDA” - Spectacol prezentat de Baletul New Space din Italia.	en
<b>dc.language.iso</b>	other	en
<b>dc.rights</b>	Primaria Municipiului Sibiu	-
<b>dc.source</b>	Primaria Municipiului Sibiu	-
<b>dc.subject</b>	artele spectacolului	en
<b>dc.subject</b>	balet	en
<b>dc.title</b>	Spectacol de balet - EL TANGO DE LA VIDA. Mini Stagiune de Balet	en
<b>dc.type</b>	Image	en
<b>dc.europeana.provider</b>	Biblioteca Universitatii „Lucian Blaga” Sibiu	-
<b>dc.europeana.type</b>	Images	-

Appears in Collections: [Sibiu - 2007-07 July](#)

### Files in This Item:

File	Description	Size	Format	
<a href="#">BUSibiu_CCE2007_El_tango_de_la_vida_foto_Adrian_Bugariu_01.jpg</a>	Spectacol de balet „EL TANGO DE LA VIDA” - Casa de Cultura a Sindicatelor Sibiu, 04 iulie 2007.	381.27 kB	JPEG	<a href="#">View/Open</a>
<a href="#">BUSibiu_CCE2007_El_tango_de_la_vida_foto_Adrian_Bugariu_02.jpg</a>	Spectacol de balet „EL TANGO DE LA VIDA” - Casa de Cultura a Sindicatelor Sibiu, 04 iulie 2007.	387.32 kB	JPEG	<a href="#">View/Open</a>



Fig - The structure of the data fields for an old postcard

Full metadata record

DC Field	Value	Language
<b>dc.contributor</b>	Lichtdruck Actien - Gesellschaft	-
<b>dc.coverage.spatial</b>	Sibiu, Romania	-
<b>dc.coverage.temporal</b>	1914	-
<b>dc.date</b>	1914	-
<b>dc.date.available</b>	2012-12-15T17:34:14Z	-
<b>dc.date.issued</b>	1914	-
<b>dc.identifier</b>	http://digital-library.ulbsibiu.ro/dspace/retrieve/4648	-
<b>dc.identifier.uri</b>	http://digital-library.ulbsibiu.ro/dspace/handle/123456789/461	-
<b>dc.format</b>	9 x 13,8 cm	-
<b>dc.language.iso</b>	other	-
<b>dc.relation</b>	Sibiu / Hermannstadt in old Postcards	-
<b>dc.source</b>	Colectia Sorin Volosciuc	-
<b>dc.subject</b>	Cisnadie	-
<b>dc.title</b>	Gruss aus Heltau. [Sibiu - Cisnadie]	-
<b>dc.type</b>	Image	en
<b>dc.rights.holder</b>	Sorin Volosciuc	-
<b>dc.europeana.provider</b>	Biblioteca Universitatii "Lucian Blaga" Sibiu	-
<b>dc.europeana.type</b>	Image	-

Appears in Collections: [Sibiu / Hermannstadt in old Postcards](#)

Files in This Item:

File	Description	Size	Format
<a href="#">Sibiu - Cisnadie -103.jpg</a>	Gruss aus Heltau. [Sibiu - Cisnadie]	638.79 kB	JPEG <a href="#">View/Open</a>

Show simple item record



# CONCLUSIONS


- Universities have established and developed institutional digital repositories, which supports the modernization of higher education process.
- Offer access to rich information resources: books, textbooks and university courses, encyclopedias, journals, articles, scientific papers, theses, laboratory guides, standards, maps, photos...
- *Retrieval of information depends on the accuracy of metadata and keywords that are cataloged*
- The **librarian** play here the **key role**, managing the cataloguing process of the digital resources
- is a relatively new area (especially in romania !), it requires the development and regulation of digital content indexing!



감사합니다 Natick  
Grazie Danke Ευχαριστίες Dalu Obrigado  
Thank You Köszönöm  
Спасибо Dank Gracias  
谢谢 Merci Seé  
ありがとう

LBUS Library team  
April 2017






**The Wardens of the Amsterdam  
Drapers' Guild, Known as 'The Syndics'**  
Rembrandt Harmensz. van Rijn  
1662, Rijksmuseum  
Netherlands, Public Domain



europaena

#AllezCulture

 europeana.eu

 @EuropeanaEU



 Co-financed by the European Union  
Connecting Europe Facility

# The objective of the Europeana thematic campaigns

The objective of the Europeana thematic campaigns is to focus on the communications that support Europeana, highlight the nature of content and availability for reuse, and work towards improved quality of data.



**The birth of Adonis and  
the transformation of Myrrha**  
Luigi Garzi  
The Wellcome Library  
United Kingdom, CC BY



creative re-use of  
digitised content



What role can the Members' Council play in #AllezLiterature?



Woman Reading a Letter | Johannes Vermeer  
1663, Rijksmuseum  
Netherlands, Public Domain



# Thematic campaigns

## What and Why

- annual overarching thematic campaigns
  - focus and strengthen the communications that support our work
1. Highlight availability for reuse
  2. Improve quality of data
  3. Highlight the unique nature of Europeana content
  4. Demonstrate value to stakeholders

# 2017 Campaigns

- **Words and text are in the spotlight**
- focus on online campaign on social media,
- collecting high quality text from libraries and archives and focusing on different types of existing content.
- This has lead to a creation of the **#AllezLiterature** campaign under the **#AllezCulture** umbrella.

# #AllezLiterature – 4 phases

- 1) genres - letters and diaries from the WWI,
- 2) poetry,
- 3) books, and
- 4) is not defined yet - the group has been contacting libraries and archives and asking them to propose ideas.

# External milestones

- **Valentine's Day** ( launched on 14 th February)

this one had a great response with 30 articles published in 10 languages, a doubled number of subscribers, and a hashtag being used widely.

- **Love stories from WWI**

- **International Book Day**

( will be launched on 23 rd April )

- Poetry of all kinds can be used, the institutions can propose ideas under different genres and share them across Europe on social media
- Europeana content will be used but we are open to new sources as long as there is no license-related issue, including fresh sources of poetry written by European citizens.

# Thematic campaign

All about words

- 2018 = Migration: European Year of Cultural Heritage
- 2017 = Words and Text

1. Online and Social Media
2. Focus = active engagement with Libraries and Archives
3. Highlight existing content & collecting some specific high quality text
4. Show content is broader than visual images.