

*Improving
JITA Classification for LIS:
an E-LIS Community effort*

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Presentation to the 1st International Workshop
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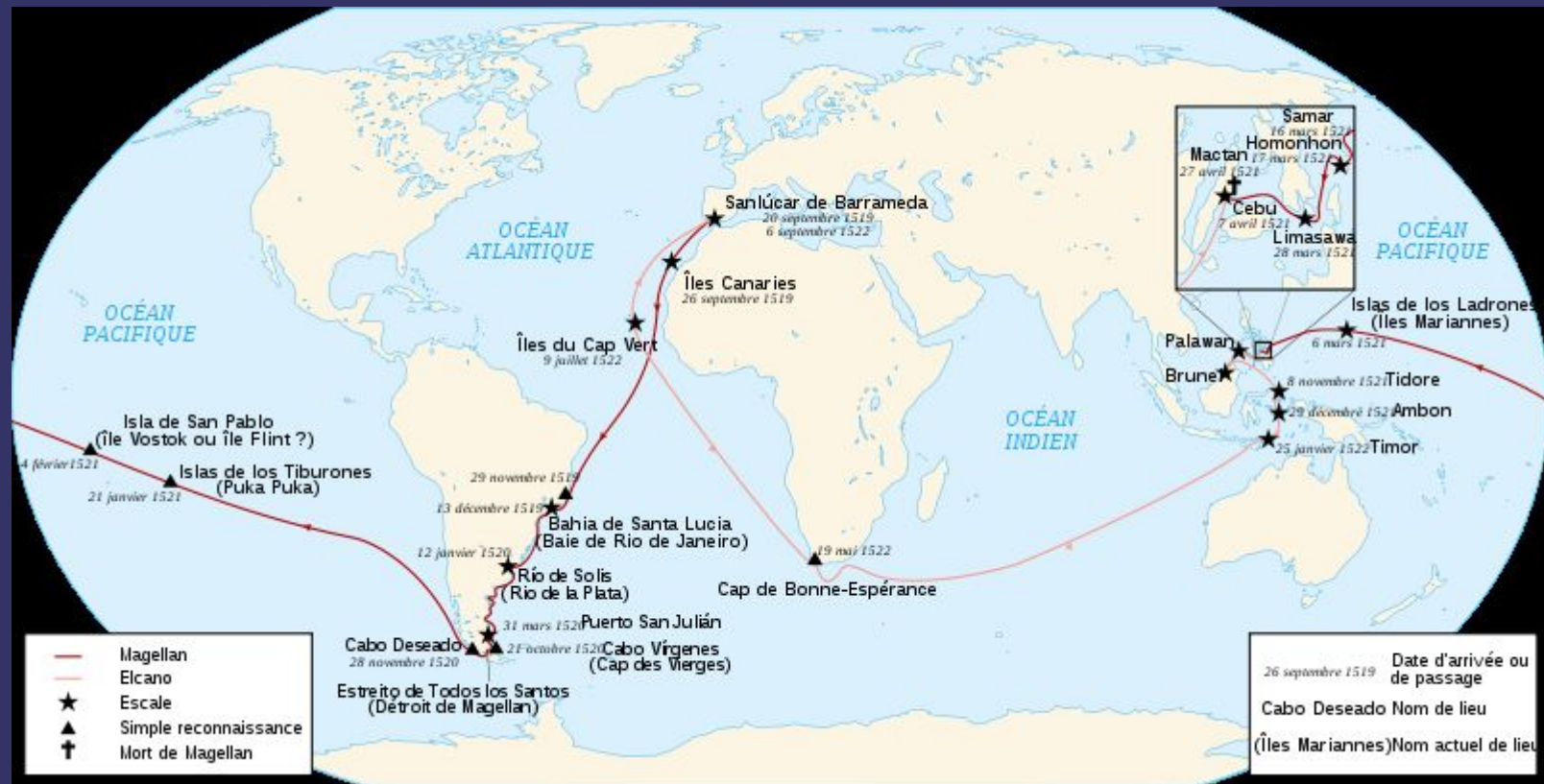


E-LIS
Community Effort
to improve
JITA Classification

 Classification and Cartography,
two kinds of mapping?

LIS

Library and Information Science



➔ How should we map the territory of our Research Endeavours ?

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Barrueco, J., & Subirats-Coll, I. RCLIS: towards a digital library for Information Science, 2003. In Libraries in the Digital Age (LIDA), Dubrovnik and Mljet (Croatia), 26-30 May 2003. (Published) [Conference Paper].

[See the references list of this item](#)

Citable URI: <http://hdl.handle.net/10760/4207>

Author(s): Barrueco, José-Manuel
Subirats-Coll, Imma

Title: RCLIS: towards a digital library for Information Science

Subjects: I. Information treatment for information services

Date: 2003

Conference: Libraries in the Digital Age (LIDA)

Conference Date: 26-30 May 2003

Location: Dubrovnik and Mljet (Croatia)

Keywords: digital library, research in computing and information science, open archives, information science, open access, biblioteca digital, investigación en informática y ciencias de la información, archivos abiertos, ciencias de la documentación, acceso abierto, recerca en informàtica i ciències de la informació, arxius oberts, ciències de la documentació, accés obert

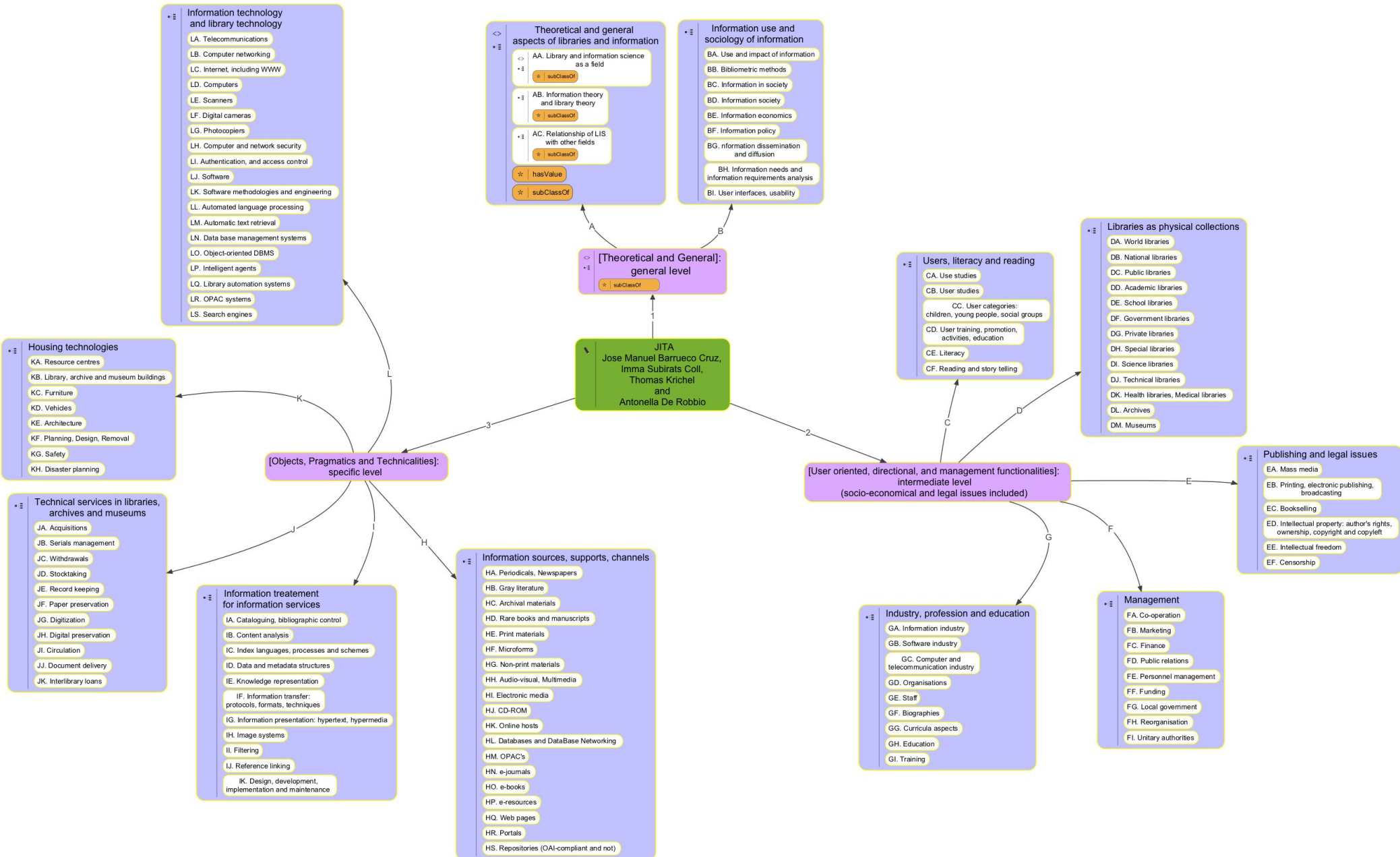
Country: Spain

Type: Conference Paper



➔ The memory of explorations in the LIS Territory...

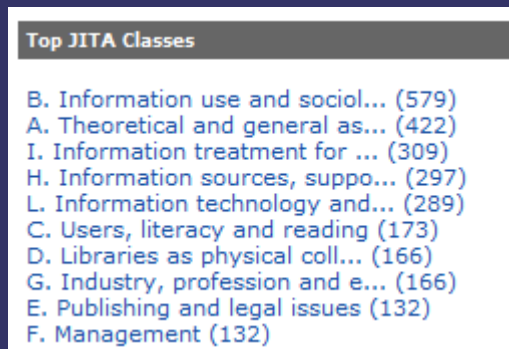
JITA Classification for LIS



➔ A Reference System to Map LIS explorations

Some E-LIS usages of JITA

- ➔ When submitting the metadata of a new document
- ➔ When updating indexing information
- ➔ When browsing the repository:
<http://eprints.rclis.org/handle/10760/3619>
- ➔ When searching documents:
<http://eprints.rclis.org/advanced-search>
- ➔ In the faceting panel of a search result:



Top JITA Classes	
B. Information use and sociol...	(579)
A. Theoretical and general as...	(422)
I. Information treatment for ...	(309)
H. Information sources, suppo...	(297)
L. Information technology and...	(289)
C. Users, literacy and reading	(173)
D. Libraries as physical coll...	(166)
G. Industry, profession and e...	(166)
E. Publishing and legal issues	(132)
F. Management	(132)

<http://eprints.rclis.org/simple-search?query=theory&submit=Go>

Cartographers have problems

- ➔ *“The Map is not the Territory”*
- ➔ **Reliability** of sources
- ➔ **Ambiguities:** how are places named?
How are others naming the same place?
- ➔ **Geometry of the Model:**
What is the distance between two points?
- ➔ **Comprehensiveness:**
where are the unexplored territories?
- ➔ **Presentation: Ergonomy of the Map**



Juan de la Cosa *Mappa Mundi (1500)*

- ➔ **Reliability** of foreign captains log books
- ➔ **Ambiguities**: names given by different nations, at different epochs
- ➔ **Geometry**: main projection centered around an unusual ecliptic plane
- ➔ **Comprehensiveness**: Many Terra Incognita...
- ➔ **Presentation...** on leather!

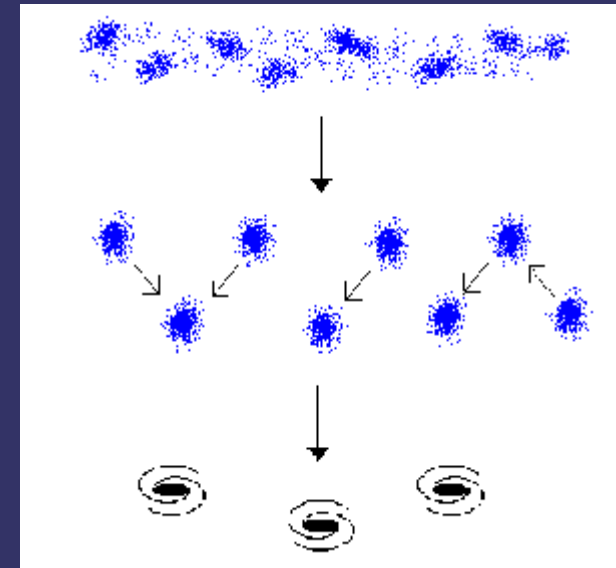


Indexers *also have problems...*



- ⇒ “The Classification is not The Knowledge” (*and Ontologies?*)
- ⇒ **Reliability** of sources
- ⇒ **Ambiguities**: how are subjects named?
How are others naming the same subject?
- ⇒ **Geometry** of the Model:
What is the distance between two subjects?
- ⇒ **Comprehensiveness**:
where are the unexplored topics?
- ⇒ **Presentation**: Ergonomical Classification
at Indexing and Search time...

Classification: Methodological Needs



- ⇒ **Bottom-Up**, hands-on indexing and retrieval experiments with indexed (or to be (re)indexed) texts:
 - What are the subjects encountered?
 - How frequently?
 - What are the subjects queried?
 - Is it possible to group some of the subjects as being equivalent? related?
- ⇒ **Top-Down**: organize identified topics along semantical axis and BT/NT hierarchies



Some results from analyzing current JITA usage data

- ⇒ JITA Usage in E-LIS (*others?*)
- ⇒ JITA Usage Increase
- ⇒ One problem with indexing...
- ⇒ JITA Usage Co-occurrences
- ⇒ Keywords are multilingual!
- ⇒ Most frequent keywords associated with a JITA entry
- ⇒ Keywords automatically identified in LISTA

***Bottom
- Up***

JITA Most Used Entries

Freq.		
720	BG	Information dissemination and diffusion
702	HS	Repositories
666	DD	Academic libraries
636	BB	Bibliometric methods
626	LC	Internet, including WWW
551	BA	Use and impact of information
441	ED	Intellectual property: author's rights, ownership, copyright and copyleft
439	BC	Information in society
431	HP	e-resources
406	HN	e-journal
368	DC	Public libraries
365	CD	User training, promotion, activities, education
363	EB	Printing, electronic publishing, broadcasting
343	IA	Cataloging, bibliographic control
338	GH	Education
334	IE	Knowledge representation
328	HL	Databases and Database Networking
327	BF	Information policy
316	AA	Library and information science as a field
300	BD	Information society
300	BH	Information needs and information requirements analysis

*What is
“hot”?*

**JITA
usage
Increase
March –
October
2011**

count	ELIS	March	inc		label-en
316	AA	286	30	10%	Library and information science as a field
551	BA	531	20	4%	Use and impact of information
636	BB	602	34	6%	Bibliometric methods
439	BC	419	20	5%	Information in society
720	BG	683	37	5%	Information dissemination and diffusion
365	CD	345	20	6%	User training, promotion, activities, education
22	DA	20	2	10%	World libraries
666	DD	638	28	4%	Academic libraries
136	DH	123	13	11%	Special libraries
32	DJ	29	3	10%	Technical libraries
185	DK	152	33	22%	Health libraries, Medical libraries
52	EA	37	15	41%	Mass media
49	FC	44	5	11%	Finance
50	FD	34	16	47%	Public relations
40	FF	34	6	18%	Funding
32	GC	29	3	10%	Computer and telecommunication industry
106	HH	94	12	13%	Audio-visual, Multimedia
431	HP	410	21	5%	e-resources
702	HS	660	42	6%	Repositories
343	IA	322	21	7%	Cataloging, bibliographic control
241	IC	221	20	9%	Index languages, processes and schemes
334	IE	298	36	12%	Knowledge representation
226	JH	206	20	10%	Digital preservation
4	K	3	1	33%	K. Housing technologies
16	KH	14	2	14%	Disaster planning
184	L	163	21	13%	L. Information technology and library technology
626	LC	606	20	3%	Internet, including WWW
67	LL	60	7	12%	Automated language processing
8	LO	7	1	14%	Object-oriented DBMS
269	LS	249	20	8%	Search engines

One problem with indexing remaining to investigate...

Freq	JITA
637	A. Theoretical and general aspects of libraries and information
115	AZ. No one of these, but in this section
827	B. Information use and sociology of information
103	BZ. No one of these, but in this section
212	C. Users, literacy and reading
57	CZ. No one of these, but in this section
242	D. Libraries as physical collections
58	DZ. No one of these, but in this section
298	E. Publishing and legal issues
71	EZ. No one of these, but in this section
414	F. Management
158	FZ. No one of these, but in this section
202	G. Industry, profession and education
83	GZ. No one of these, but in this section
710	H. Information sources, supports, channels
175	HZ. No one of these, but in this section
624	I. Information treatment for information services
115	IZ. No one of these, but in this section
291	J. Technical services in libraries, archives and museums
97	JZ. No one of these, but in this section
13	K. Housing technologies
4	KZ. No one of these, but in this section
841	L. Information technology and library technology
184	LZ. No one of these, but in this section

Jita Usage Co-occurrences

JITA Entry	AA.	AB.	AC.	AZ.	B.	BA.	BB.	BC.	BD.	BE.	BF.	BG.	BH.	BI.	BZ.	C.	CA.	CB.	CC.	CD.	CE.	CF.	CZ.
A. Theoretical and general aspects of libraries...	21	11	20	3	106	25	5	32	10	10	15	24	15	4	1	28	3	8	2	8	5		2
AA. Library and information science as a field		48	32	4	9	19	18	18	12	7	9	15	4	2	2	3	1	2	2	5	3	1	1
AB. Information theory and library theory			22		11	11	7	23	10	9	10	4	5		2	4	5	5	1	4			
AC. Relationship of LIS with other fields				4	10	21	9	38	8	14	25	20	18	7	3	2		5	2	11	5	2	1
AZ. No one of these, but in this section					3	2	2	5	2	2	2	2	1	3	6	1	2	2	2	1			2
B. Information use and sociology of information						45	46	47	22	6	21	45	20	9		52	8	14	3	16	6	2	1
BA. Use and impact of information							108	73	27	19	34	130	58	16	2	10	12	26	5	18	9	1	1
BB. Bibliometric methods								12	11	5	10	60	19	9	1	4	8	6	1				
BC. Information in society									63	35	110	81	38	10	2	17	4	5	11	17	19	1	1
BD. Information society										15	44	36	12	5	3	8	1	5	8	6	20	2	
BE. Information economics											46	23	11	2		1	1	2	3	1	3	1	
BF. Information policy												68	24	7	1	5	4	4	7	4	9	3	
BG. Information dissemination and diffusion													55	23	4	4	10	14	6	19	10	1	
BH. Information needs and information requirements...														29	1	9	12	38	8	21	11		2
BI. User interfaces, usability																5	11	23	4	17	3	1	1
BZ. No one of these, but in this section																	1		1	2	2		7
C. Users, literacy and reading																7	11	6	20	16	4	3	
CA. Use studies																		27	4	9	6	3	1
CB. User studies																			11	19	7	2	1
CC. User categories: children, young people, social groups																				18	18	15	
CD. User training, promotion, activities, education																					56	9	4
CE. Literacy																						14	1
CF. Reading and story telling																							
CZ. No one of these, but in this section																							

➔ Only A-CZ co-occurrences are shown here

➔ The complete table is available:

<http://www.destin.be/ASKOSI/Wiki.jsp?page=Improving%20JITA>

➔ **Pink:** positively correlated entries

➔ **Blue:** negatively correlated entries

Keywords are multilingual!

Freq	JITA	Keyword
2	CZ.	ಓದುವ ಹವ್ಯಾಸ
3	DB.	中国国家图书馆
2	DC.	ಗ್ರಂಥಾಲಯ ಸದಸ್ಯತ್ವ
2	DC.	ಸಾರ್ವಜನಿಕ ಗ್ರಂಥಾಲಯಗಳು
2	HZ.	ವಿಕಿಪೀಡಿಯಾ
2	IA.	България
2	IA.	стандарти за библиографско описание
2	IA.	ಕನ್ನಡ ಪರಾಮರ್ಶನ ಗ್ರಂಥಾಲಯ
4	IA.	ಕನ್ನಡ ಪುಸ್ತಕಗಳು
2	IA.	ಗ್ರಂಥ ಹತೋಟಿ
2	IA.	ಜನಪ್ರಿಯ ವಿಜ್ಞಾನ ಪುಸ್ತಕಗಳು
2	IA.	ಸಮಗ್ರ ಗ್ರಂಥಸೂಚಿ
2	IA.	ಸಾರ್ವಜನಿಕ ಗ್ರಂಥಾಲಯಗಳು
2	IA.	中国国家图书馆
2	IA.	編目
2	IC.	България
2	IC.	стандарти за библиографско описание
2	JA.	中国国家图书馆
2	L.	вузовские библиотеки
2	L.	новые информационные технологии
2	L.	Россия
4	LC.	ಇಂಟರ್ನೆಟ್
2	LC.	ಕನ್ನಡ
2	LC.	ಕನ್ನಡ ಪುಸ್ತಕಗಳು
2	LC.	ಪರಾಮರ್ಶನ ಸೇವೆ

Frequent Keywords for JITA A-BB

The whole list can be found at:

[http://www.destin.be/ASKOSI/Wiki.jsp
?page=Improving%20JITA](http://www.destin.be/ASKOSI/Wiki.jsp?page=Improving%20JITA)

Count	JITA	Keyword
	AA	Library and information science as a field
48	AA.	Information science
27	AA.	librarianship
25	AA.	Library science
17	AA.	Mexico
12	AA.	Libraries
	AB	Information theory and library theory
12	AB.	Mexico
	BA	Use and impact of information
61	BA.	Open Access
35	BA.	Spain
30	BA.	Bibliometrics
25	BA.	Evaluation
19	BA.	Scientific journals
18	BA.	Impact factor
15	BA.	Internet
12	BA.	Web 2.0
11	BA.	digital divide
11	BA.	information literacy
11	BA.	Scientometrics
10	BA.	citation analysis
10	BA.	e-journals
10	BA.	Visibility
	BB	Bibliometric methods
141	BB.	Bibliometrics
62	BB.	Scientometrics
42	BB.	Citation analysis
37	BB.	Webometrics
33	BB.	Impact Factor
29	BB.	Spain
28	BB.	Bibliometric indicators
27	BB.	Open Access
25	BB.	Bibliometry
24	BB.	Informetrics
24	BB.	Scientific production
17	BB.	Bibliometric analysis
13	BB.	cybermetrics
12	BB.	Argentina
12	BB.	h-index
12	BB.	Web of Science
11	BB.	Cuba
11	BB.	Publication productivity
11	BB.	research evaluation
10	BB.	evaluation

Frequent Keywords for JITA BC-BG

The whole list can be found at:

[http://www.destin.be/ASKOSI/Wiki.jsp?
page=Improving%20JITA](http://www.destin.be/ASKOSI/Wiki.jsp?page=Improving%20JITA)

Count	JITA	Keyword
	BC	Information in society
33	BC.	Libraries
25	BC.	public libraries
23	BC.	Internet
23	BC.	Mexico
19	BC.	Open Access
14	BC.	social exclusion
13	BC.	United Kingdom
12	BC.	Web 2.0
10	BC.	copyright
10	BC.	Librarians
	BD	Information society
48	BD.	Information Society
25	BD.	Open Access
20	BD.	Internet
10	BD.	public libraries
	BE	Information economics
15	BE.	open access
11	BE.	Mexico
	BF	Information policy
40	BF.	Open Access
29	BF.	Mexico
24	BF.	public libraries
11	BF.	copyright
10	BF.	libraries
10	BF.	OA
	BG	Information dissemination and diffusion
215	BG.	Open Access
45	BG.	Institutional repositories
37	BG.	Scholarly communication
36	BG.	open archives
30	BG.	Repositories
20	BG.	copyright
19	BG.	OA
19	BG.	scientific communication
18	BG.	self-archiving
17	BG.	Web 2.0
16	BG.	Internet
15	BG.	Spain
14	BG.	Impact factor
13	BG.	Digital libraries
13	BG.	E-LIS
12	BG.	electronic publishing
11	BG.	information literacy
11	BG.	Information retrieval
10	BG.	knowledge management
10	BG.	Scientific journals

Frequent Keywords for JITA BH-DL

The whole list can be found at:
<http://www.destin.be/ASKOSI/Wiki.jsp?page=Improving%20JITA>

Count	JITA	Keyword
	BH	Information needs and information requirements analysis
15	BH.	information needs
12	BH.	Spain
11	BH.	information literacy
	BI	User interfaces, usability
29	BI.	Usability
	C	C. Users, literacy and reading
	CA	Use studies
10	CA.	user studies
	CB	User studies
23	CB.	user studies
12	CB.	information literacy
10	CB.	Academic libraries
	CC	User categories: children, young people, social groups
15	CC.	public libraries
	CD	User training, promotion, activities, education
110	CD.	Information Literacy
20	CD.	academic libraries
15	CD.	user education
12	CD.	WILU
12	CD.	Workshop on Instruction in Library Use
11	CD.	e-learning
10	CD.	education
	CE	Literacy
74	CE.	Information Literacy
11	CE.	literacy
	DC	Public libraries
140	DC.	Public Libraries
30	DC.	Public Library
16	DC.	Mexico
15	DC.	social exclusion
14	DC.	United Kingdom
11	DC.	Internet
	DD	Academic libraries
168	DD.	Academic Libraries
55	DD.	University Libraries
26	DD.	Digital libraries
22	DD.	Open Access
19	DD.	information literacy
18	DD.	Greece
11	DD.	institutional repositories
11	DD.	library services
11	DD.	library systems
11	DD.	users
10	DD.	collection development
10	DD.	digitization
10	DD.	e-journals
10	DD.	Electronic journals
	DK	Health libraries, Medical libraries
14	DK.	medical libraries
11	DK.	medical library
	DL	Archives
35	DL.	Archives

➔ Levels 1+2 (from 1-A up to 3-J), current classification axis:

1.[Theoretical and General]: general level

- A. Theoretical and general aspects of libraries and information
- B. Information use and sociology of information

2.[User oriented, directional, and management functionalities]: intermediate level
(socio-economical and legal issues are included here)

- C. Users, literacy and reading
- D. Libraries as physical collections
- E. Publishing and legal issues
- F. Management
- G. Industry, profession and education

3.[Objects, Pragmatics and Technicalities]: specific level

- H. Information sources, supports, channels
- I. Information treatment for information services,
Information functions and techniques
- J. Technical services in libraries, archives and museums

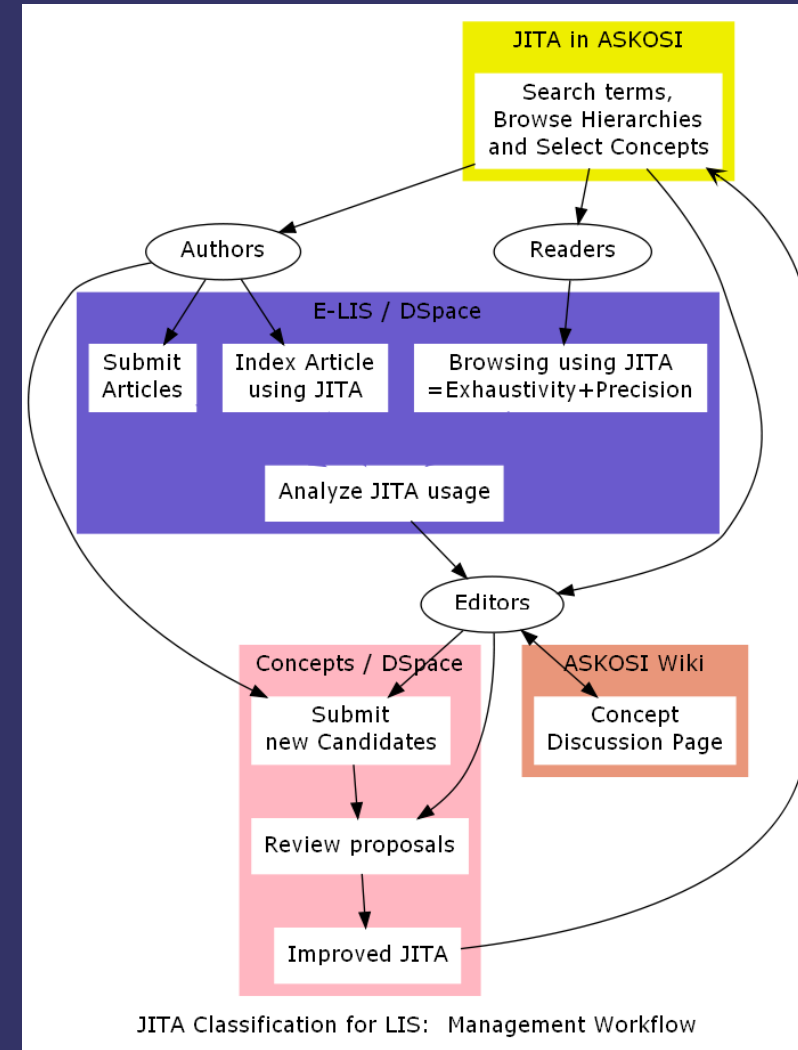
- Are those all the axis we need?
- Is each axis complete at third level?
- Should all E-LIS records be classified on every axis?
- Should some axis be mandatory?

Top-Down



Tooling Collaboration

- ➔ **Analyze** E-LIS current indexing and searching practices
(dataset available on request)
- ➔ **Look** at current JITA hierarchies and translations in ASKOSI
- ➔ **Propose** improvements in the ASKOSI Wiki
- ➔ **Apply** modifications in the JITA Concepts Repository
(to be installed using DSpace)
- ➔ **Publish** JITA in ASKOSI and AIMS

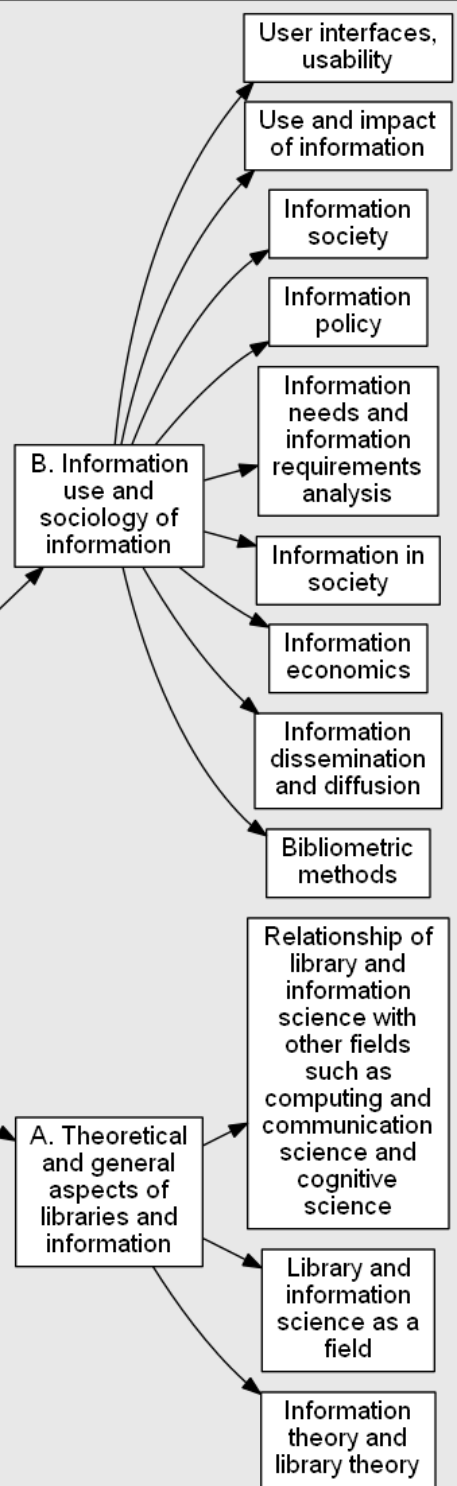




* * by pieces:

138 concepts , List: alphabetical or [hierarchy]

JITA Classification System of Library and Information Science [2002-11-11 version]		E-US	Wiki
1	1.[Theoretical and General]: general level	1	1
2	A. Theoretical and general aspects of libraries and information	110	1
3	Information theory and library theory	202	1
3	Library and information science as a field	286	1
3	Relationship of library and information science with other fields such as computing and communication science and cognitive science	216	1
2	B. Information use and sociology of information	95	1



- # ASKOSI
- ➔ Gather Vocabularies and their Usages
 - ➔ Browsing and Searching
 - ➔ Synthetic Displays
 - ➔ Validations
 - ➔ SKOS Publishing

JITA Wiki

<http://www.destin.be/ASKOSI/Wiki.jsp?page=JITA%20Maintenance>

G'day, [Christophe Dupriez](#) (not logged in) [Log in](#) [My Prefs](#)

Information theory and library theory

Quick Navigation

Your trail: [JITA Maintenance](#) -- 1.[\[Theoretical and General\]: general level](#)

[View](#) [Anexar](#) [Info](#)[PDF](#) [Edit](#) [More...](#)

expand	E-LIS	Wiki
A. Theoretical and general aspects of libraries and information	110	1
Information theory and library theory	202	1

Referred by: 1.[\(Theoretical and General\): general level](#)

I believe that we should be very specific when selecting widely used concepts. As I'm presently selecting definitions to link to the concepts used in JITA, things became clearer.

Information Theory is a branch in the domain of Mathematics. Library science, on the other hand, is quite another thing, although we know that it borrows a lot from the former.

So I propose that you consider:

- 1) using Library Science (the common term) instead of Library theory [see: http://en.wikipedia.org/wiki/Library_science]; this only applies to certain languages as roman languages use terms derived from library (bibliotheca); in Portuguese we selected *Biblioteconomia*.
- 2) separating these two concepts - Information Theory from Library Theory; I wonder how many papers *do* mention *information theory* within those classified as such - there are very misleading classification practices within E-LIS, I regret to say, but that is quite another matter to discuss elsewhere. But if you think it is useful to keep Information Theory it is probably wiser to have in another subclass.

What do you think?

Paula Sequeiros

This page (revision-1) was last changed on [16-sept.-2011 16:46](#) by [Paula Sequeiros](#)

Referred by: 1.[\(Theoretical and General\): general level](#)


Concept Repository using DSpace

WindMusic >

6. Around Musical Works >

6.4. Keywords (index) >





 fr ARTS DU SPECTACLE *Simil.*




 en Performing arts *Simil.*

 de Schauspielkünste *Simil.*

 nl Toneelkunst *Simil.*

 es Arte dramático *Simil.*

Additional Title:  es Arte escénico *Simil.*

:  7  5963  147

 Incidental music

 8

 DANSE

 1814  5444  103

 Cinema

 83

 Circus

 166  208  8

 Mime

 3  5  1

 Theatre

 95  149  32

 Musical-theatre

 10

 Performing arts

 67  2

 Puppet theatre

 1

URI (PermaLink): <http://dspace/handle/68502/22355>

Appears in Collections: 6.4. Keywords (index)

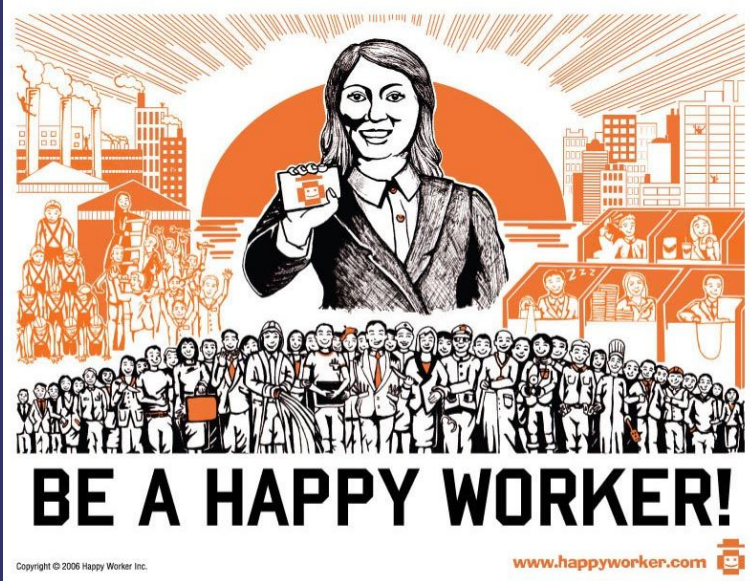
Please use this identifier to cite or link to this item:

[WindMusic=22355]

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JITA efforts... Who does what ?

- ⇒ Assess current JITA usage
- ⇒ Propose modifications
- ⇒ Review modifications
- ⇒ Linking to the Linked Data Web
- ⇒ Translations into new languages
- ⇒ Update translations following modifications
- ⇒ Publishing for maximal reuse
- ⇒ Update indexation in Repositories using JITA when it changes...
- ⇒ *... and iterate!*

Sources of Images:

- ➔ <http://www.free-background-wallpapers.com/>
- ➔ <http://vroum52.com/lvn.html>
- ➔ http://www.census.gov/history/www/programs/geography/how_we_map.html
- ➔ Wikimedia
- ➔ <http://www.cndp.fr/savoirscdi/index.php?id=524>
- ➔ <http://nrumiano.free.fr/Fgalax/naissance.html>
- ➔ <http://www.happyworker.com>

Previous work:

- ➔ Constantinescu, N., De Robbio, A., Dupriez, C., Subirats-Coll, I., Tsakonas, G., **Spring of Tulips : A community based translation of a classification system for Library and Information Science**, 2011. In CERN Workshop on Innovations in Scholarly Communication (OAI7), Geneva (Switzerland), 22-24 June 2011. [Conference Poster]. <http://hdl.handle.net/10760/15971>