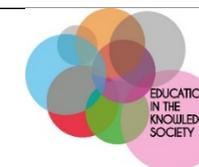




Usability evaluation focused on user experience of repositories related to energy sustainability:

A Literature Mapping



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18 de octubre de 2017, Cádiz, Spain



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Colaboran:



Repositories Energy Sustainability

Tools for usability evaluation (UE) to repositories energy sustainability

Approach users' experience (UX)

- A quality attribute that is an increasingly important success factor of any interactive technology, on a general level, UX refers to users' perceptions and responses that arise in the use of an interactive system.



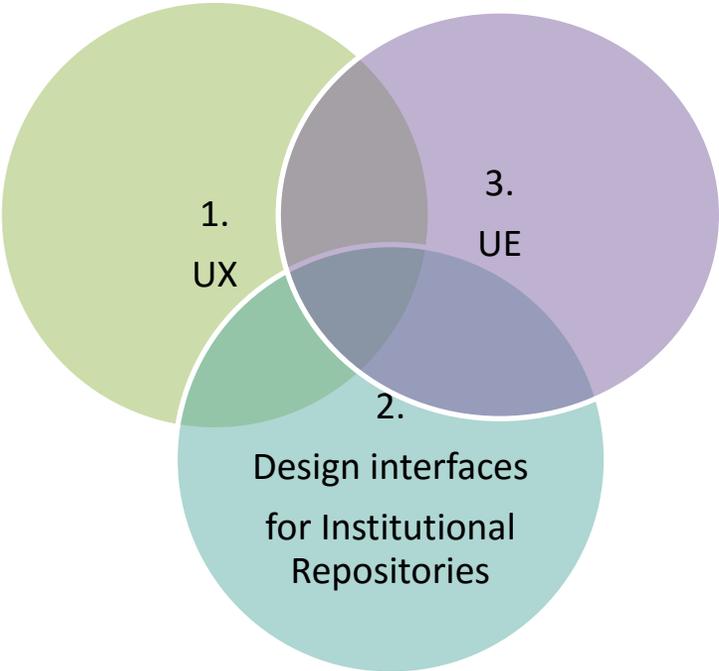


Identifying the need for a mapping literature review

- Connect with assessments from the user experience for choose best practices and parameters for apply the design to the processes and refine the instruments that will be used to evaluate the usability of the Institutional Repository.



Identifying the need for a mapping literature review



Improve the design of interfaces to search and self archiving open educational resources (OER) in Institutional Repositories



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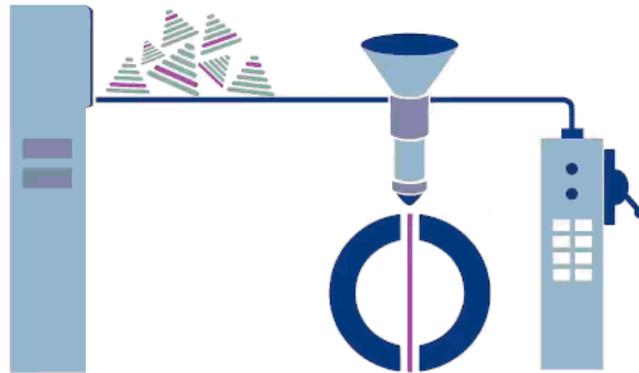
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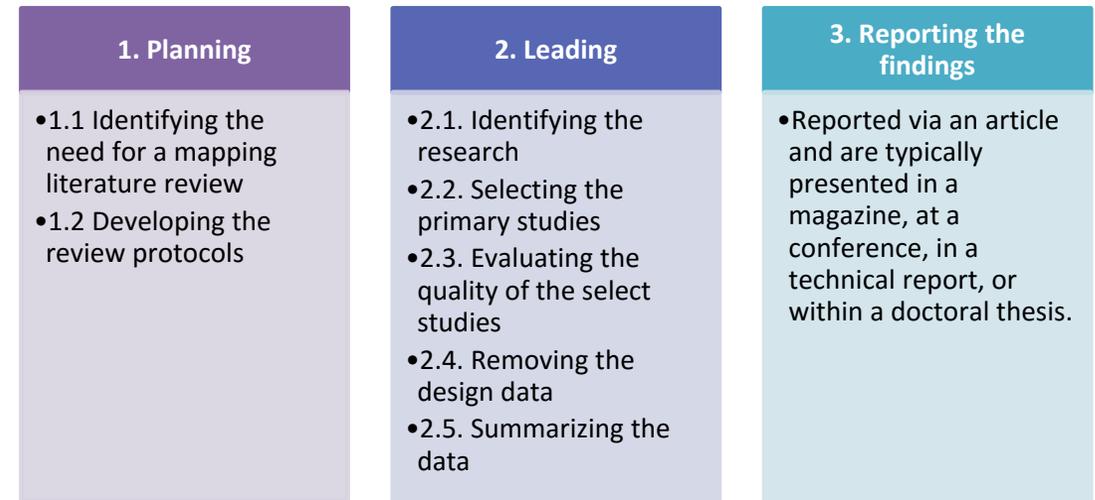
Colaboran:



Mapping literature review



By Jacknunn – own work. CC BY-SA 4.0



By González-Pérez – own work. CC BY-SA 4.0



The research question

- RQ1 - How many studies have been done to evaluate the usability of a Repository?
- RQ2 - How many studies have been done to use the approach the user experience on repositories?
- RQ3 - What are the dimensions and tools used for to evaluate usability?



studies

Groups	Category	Keyword	# studies
G1	Studies of systematic review of literature about user experience	"systematic literature review" AND "user experience"	8
G2	Studies of systematic review of literature on usability evaluation	"systematic literature review" AND "usability evaluation"	6
G3	Studies of systematic review of literature about user experience and repositories	"systematic literature review" AND "user experience" AND "repositories"	0
G4	Studies of systematic review of literature on usability evaluation and repositories	"systematic literature review" AND "usability evaluation" AND "repositories"	1
G5	Studies of user experience and usability evaluation	"user experience" AND "usability evaluation"	33
G6	Studies of user experience and repositories	"user experience" AND "repositories"	28
G7	Studies usability evaluation and repositories	"user evaluation" AND "repositories"	2

Consejo Nacional de Ciencia y Tecnología

Colaboran:

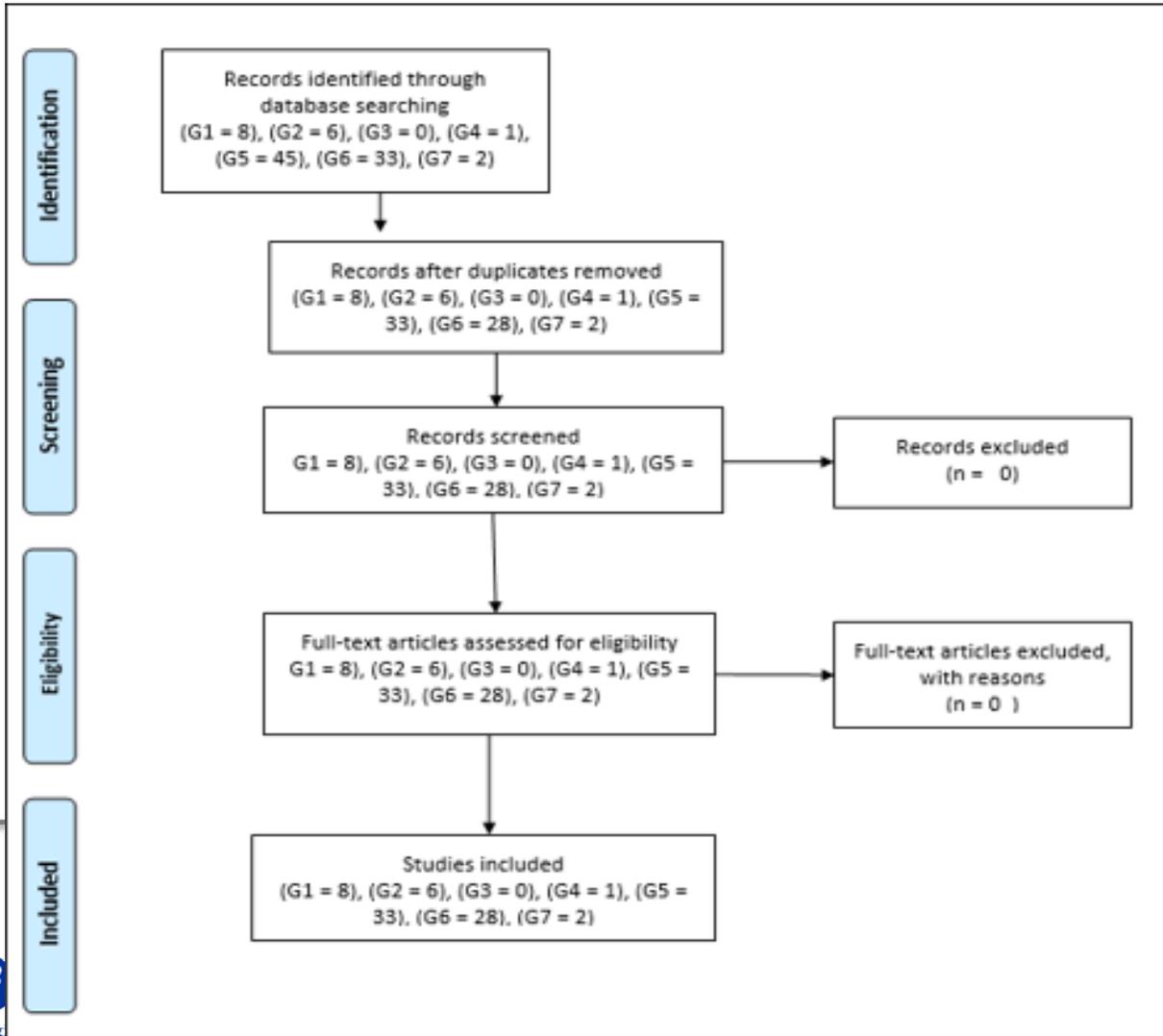


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Data extraction strategy



Group	WOS	SCOPUS	Total
G1	1	7	8
G2	0	6	6
G3	0	0	0
G4	0	1	1
G5	3	30	33
G6	2	26	28
G7	0	2	2
	6	72	78



Synthesizing, analyzing and presenting data



Figure 1: World map for the studies. The most representative are **USA, Spain, China, Australia, Brazil, Malaysia, Canada, Germany and Finland**

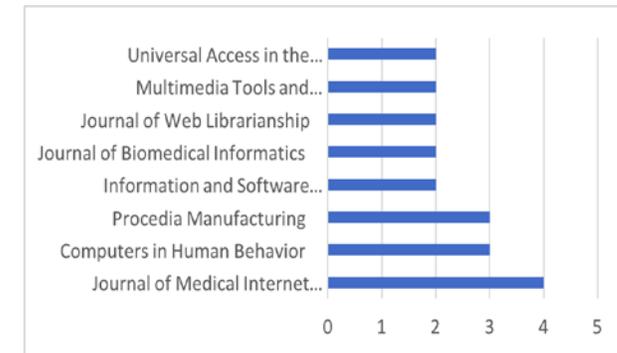


Figure 2: Journals that predominate in the publication of articles.

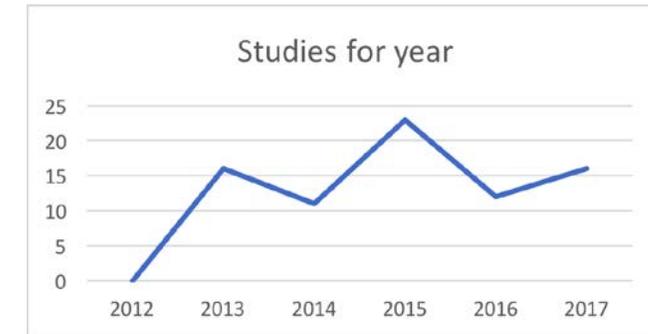


Figure 3: Graph of studies per year.



Discussion

Answer RQ1 # studies UE for IR	Answer RQ2 # studies UX for IR	Answer RQ3 Dimensions and tools used for to evaluate usability	
		Dimension	Tools
S77 - For UE of mobile access to Institutional Repository is considered good, each scored well above 4.00 on a scale of (1-5) which represents good usability.	28 studies S49 - Attention is being given to the needs of those with disabilities, as libraries strive to build friendly environments for lifelong learning S50 - Dan Saffer's framework of microinteractions	Computing and software	Observation Questionnaires Heuristic evaluation Reports Demographic survey Confidence survey Exploration tasks Open question Usability rating
S78 - to reduce the cost of expertise to be limited to considering only quality attributes	S53 - UCD techniques S54 - Architecture to integrate different repository systems using the Content Management Interoperability Services (CMIS) API and an integration layer. S55 - 5 domains: website ownership, visual and textual content, user experience, hyperlinking, and social interactivity	Education	Open question Usability rating Questionnaires Adhesive notes
S15 - ARE practices can contribute to improved efficiency of the development process	S61 - Browse-to-Search system on tablet devices and evaluate the system performance using millions of images S64 - Framework of co-design and user engagement activities, has allowed a diffusion of ownership, and created a safe social and technical environment where the community	Medicine	Test Structured and semi-structured interviews Questionnaires Performing tasks Surveys Video recording



Discussion

Authors	Recomendations
Martins, Queirós, Rocha, & Santos (2013)	To collect quantitative and qualitative information contributing to a more complete assessment
Campos Filho, Novaes, & Gomes (2015)	Usability evaluation provides developers and educators with the means to understand user needs
Hussain, Mkpojiogu, & Kamal (2016)	Cultural issues consideration; User interfaces of mobile applications and websites; Semiotics perception in usability evaluation
González-Pérez, Ramírez-Montoya, & García-Peñalvo (2016)	To determine the profiles of the users involved to apply a personalized instrument and to know the perspective of each one
Schön, Thomaschewski, & Escalona (2017)	To establish a collaborative environment with constant feedback loops.



Thanks!



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