

DEVELOPMENT OF A WEB ACCESS COMPUTATIONAL INTERPRETER FOR CONVERSION OF ANALOGICAL BIBLIOGRAPHIC DATA TO MARC21 BIBLIOGRAPHIC FORMAT

Description

This research is part of the contemporaneous social context in which the use and deployment of technologies is common. Information units, and libraries in particular, are experiencing the (re)building of the environment of sociocultural and technological transformations. As expected, there is a need to (re)evaluate processes, products and services that, with technological applications, are influencing and transforming the generation and use of information. Processes of description, treatment, organization, distribution and storing information are changing and, because of that, the ways to retrieve and access information change as well, for humans and for machines. With new information and communication technologies come about easier ways to share bibliographical records among assorted information units. The challenge, however, is in the institutions that still do not have access to the usefulness brought about by those technological resources, because they do not use them, for whatever reasons. The main problem to be handled is that there are still institutions that do not make available the entirety of the bibliographical data from its collections in open access online catalogues, that is, the records are still in printed bibliographic catalogues (analogical records). Retrospective conversion might be used to fill this gap, however, in the traditional methods of retrospective conversion that are based on records from collective catalogues, a lot of technical work is required, such as, adjustment of access points by subject, by notes and other local information that would need correction, suppression of fields, changing contents and adding local information. This research proposition focuses on this point, aiming to proceed with a retrospective conversion of bibliographic data that would utilize the entirety of bibliographic records from the institution (bibliographic data, access points and localization data, already defined in the analogical records), making use of image processing. The main objective is to develop a web access computation interpreter to convert analogical bibliographic data to MARC21 bibliographic format. Scientific, technological and social contributions are envisioned: [1] scientific, giving the discussion of intrinsic questions about syntactic and semantic aspects of bibliographic records, as well as, enclosing the interdisciplinary characteristics of Information Science, Computational Science and Linguistics; [2] technological, giving the development of a computational interpreter for conversion of analogical bibliographic data to MARC21 bibliographic format from schemes of description and visualization of bibliographic records, what represents the development of a product and the improvement of the conversion processes of analogical bibliographic data by means of technological applications, which favours the development of open access policies to bibliographic records; [3] social, inherent to the aspects of sharing bibliographic records, to the wide usability of information resources metadata represented by various information units, to the propagation of methods that encourage sharing records and usability among library management systems highly contributes to the discussion and socialization of scientific and technological knowledge.

Research Area: Technology, Information and Representation

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