

Introduction to DC-based Union Cataloging Systems for Academic Journals in Digital Library Environments

Han Suk Choi
Korea Research Information Center

Abstract

As rapidly growing digital library and Web-based information technology, it is not difficult for researchers to access online electronic collections over the world-wide publishers and information providers. However, the cost for online academic journals is so expensive and varying that most individual researchers can not afford to subscribe all of them. Korea Research Information Center(KRIC) established for providing the most up-to-date academic research information through union cataloging service, oversea online journal service, and specialized information service. KRIC has developed Research Information Service Systems(RISS) since 1997. One of the interesting RISS service is Dublin Core(DC)-based union cataloging systems for academic journals. We have designed and currently implemented the DC-based union cataloging systems for academic journals. In this presentation, we introduce the system architecture and design details of the DC-based union cataloging systems for academic journals. The major subsystems of DC-based union cataloging systems are server-side union catalogue management system, online shared cataloging service system using Z39.50 standard IR protocol, and copy-fax service system. The proposed DC-based union cataloging systems will share with most university libraries in Korea. Each local library generates bibliographic records of academic journals which they have, and then register the metadata of the academic journal records into the union catalog database in KRIC, which is geographically distributed from the local libraries. The major contents of this presentation are as follows;

1. Introduction
2. Metadata Elements for DC-based Union Cataloging Systems
3. DC-based Union Cataloging Systems for Academic Journals
 - System Architecture
 - DC-based Union Cataloging Management System
 - Online Shared Cataloging Service System
 - Copy-Fax Service System
4. Discussion
5. Conclusion