System for Cross-Organization Big Data Analysis of Japanese Institutional Repositories

We are developing a system that use access log of institutional repositories (IRs) and metadata of contents. Major work of the system is data analysis. This function enables cross-organization comparison and standardization of statistics. The system is also attached other functions to promote utilization of IRs.

Development

The project has just started. We are discussing the detail of the service, creating a prototype with the data of JAIRO Cloud on Microsoft Azure. Our current plan is as follows.

What’s JAIRO Cloud?
It is a SaaS-type cloud service for IRs. The service have a repository software module, WEKO. More than 250 institutions in Japan use it.

Dataflow

The list, IP addresses and User Agents are written in, implements COUNTER Robots list.

The process is based on COUNTER.

Introduction

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Functions

Usage statistics
for repository manager
Report of each IR
Report of Japanese IRs

Ranking
for institution, author
Institution ranking
Content ranking

Recommender
for visitor
Similar Items

Research
for the system, IRs’ future
Improvement this/IR system
Mining knowledge

There are now no tools that enable comparison between IRs or analysis of all the entire IRs in Japan. The module will allow those.

The number calculated by different method of each institution is often used now. This feature will provide meaningful information by common processing.

The function will promote use of content.

The system will provide research environment that enables us to use raw-close data.