A mash-up of a Japanese Open Repository and a Researcher CV Platform

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Introduction

The National Institute of Informatics (NII) has led a Japanese institutional repository project since 2014 and, developing homegrown repository software named WEKO as a module for the content management system NetCommons (NC). Recently, NII and Japan Science and Technology Agency started a researcher collaboration platform named Read and Researchmap (R&R) based on the NC framework. One of the major functions of R&R is to serve as an electronic CV system for researchers. In addition to automatic archival of articles, a variety of content such as presentation files and lecture notes are being deposited in R&R. In order to enhance the system's metadata handling, reuse of code, and interoperability, we decided to implement WEKO as a back-end for the R&R content management system. The system works as a comprehensive self-archiving repository in Japan.

System Relationship

R&R is responsible for the user interface of the content management system. Each user registered for R&R has a corresponding author ID in the WEKO backend, which facilitates name disambiguation. Self-archived content is deposited machine to machine interaction between R&R and WEKO. CRUD operations are performed using the SWORD 2.0 protocol. For journal article content, copyright policy -- such as green, blue, yellow, white and gray conditions -- will be denoted via R&R interface. A database defining these policies for Japanese academic societies is maintained by the Society Copyright Policies in Japan project. WEKO can also use the RoMEO API, which is used by international journals for interactions with data repositories. Keyword searches made by using R&R interface are executed using the OpenSearch standard.

The JAIRO Cloud is a SaaS institutional repository service offered by NII to university libraries. Since R&R as an electronic CV system knows a user's home organization, notifications when content is deposited are automatically sent to a listed repository manager if the user's organization is participating in the JAIRO Cloud service. Even though the information is delivered by SWORD, it is retained under the review process by the repository manager. The accuracy of both object metadata and object copyright conditions will be checked by a librarian, making the open access contents more reliable.

Future Plans

R&R also provides a communication tool for researchers. About two hundred research communities are registered within R&R, which represents more than two hundred thousand individual users. Our next challenge is facilitating reuse and connecting users of the same content so they can collaborate.
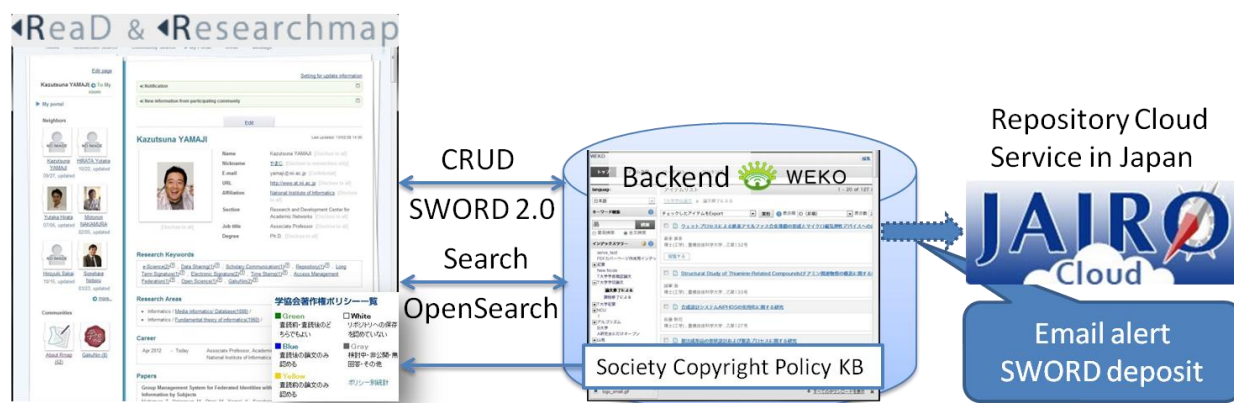

Figure 1 System Relationship between R&R and WEKO repository