

15. Activities of Research Information Office (RIO)

1. Research Information Office (RIO)

<http://www.nifs.ac.jp/ri/index.html>



The Research Information Office (RIO) was established on October 1, 2004 aiming to consolidate research information of NIFS. RIO is operating the NIFS Article Information System (NAIS) in order to accumulate research activity

information related to the fusion science. The operation of the institutional repository named “NIFS Repository” has started at the end of March 2009 to open the research activities to the public through the Internet. The information disclosure of the latest study results is also an important function of RIO by publication of research reports such as an annual report, a NIFS report, etc.

2. NIFS Article Information System (NAIS)

<http://www.nifs.ac.jp/ri/articleinfo.html>



The NIFS Article Information System (NAIS) is the database accumulating research activity information in NIFS, which include activities of the collaboration researches

with universities, research institutes, industries, etc. NAIS has been developed and is operated by RIO since 2006 as a useful data base for the improvement of the level of the research and the education. In this system, the procedures concerning the article submission in the institute are integrated, and the reduction in time in the data input is aimed at. The counting of the presented papers and the extraction of the statistical data can be done easily by using NAIS. Once the article is registered in NAIS, the researcher need not submit again the article list at each counting for different evaluation. An individual author is recognized in NAIS. Therefore, even if the name of the author on the article is the same description (the same first name and the same family name), it is possible to distinguish them by the unique ID. It expands not only an accurate counting but also the possibility of NAIS. For instance, the researcher who logs in can make the latest article list of himself.

The article can be retrieved and inspected easily by using NAIS. The article before presentation is inspected internally, which contributes to the transparency of the publication of the article. This program module named PERAS (PEer Review Assist Server) system is also useful for the article review system of the academic journal or the

international conference, symposium, etc. PERAS was offered to the Plasma and Fusion Research (PFR) of the Japan Society of Plasma Science and was adopted as the article review system in the international conferences such as PET11, ICPP, ITC-17, 18, 19, etc.

3. Construction of the NIFS Repository

NIFS Repository

<http://nifs-repository.nifs.ac.jp/>

In general, a university-based IR (Institutional Repository) is defined as; “A set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members”. In other words, for the case of NIFS, the IR is required to meet the social accountability of the Institute that is carrying out a large-scale project of nuclear fusion research and development.

In 2008, the scheme of the IR had been discussed and the operational guideline of the repository was decided. According to this guideline, organizing community for the IR of NIFS, named NIFS-Repository, was started and the NIFS-Repository has been opened at the end of March 2009.

At the view point of the construction of IR in NIFS, there are following feature;

1) NIFS is an Inter-University Research Institute and serves as a Center of Excellence for Fusion Science. Therefore our repository, that includes research products by our own staff and those by our collaborators as well, chances to be ranked as “Research Field Repository” in fusion science.

2) RIO operates NAIS and publishes research reports, and this makes researchers free from extra load for registering their research papers in our IR.

In order to exchange the information on constructing the IR at inter-university research institutes like NIFS, a mini-workshop was held at NIFS on January 20, 2009 with participation from inter-university institutes.

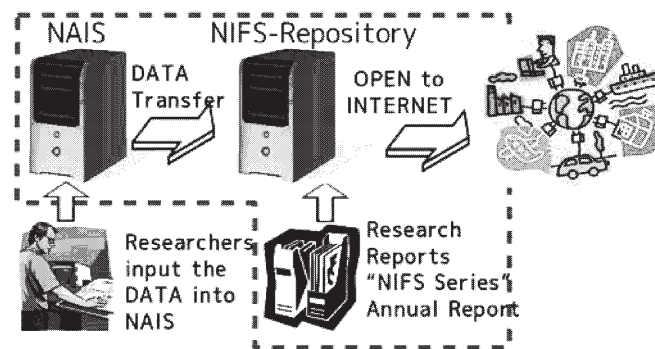


Fig.1 Conceptual scheme of the NAIS and NIFS Repository.

4. Publication of NIFS reports and Collection of Reports



<http://www.nifs.ac.jp/report/index.html>

Publication of the annual report and series of NIFS Research Report is also important task of RIO. NIFS series are the preprints for presenting promptly the results of a collaboration research work of NIFS.

NIFS Research Report

Present the results of research work for nuclear fusion, plasma physics and theory & simulation and experiments in related fields.

NIFS-PROC

Proceedings of international conferences or symposia organized by NIFS and the reports of the meetings for the collaboration research work of NIFS.

NIFS-TECH

Present the results of technical research development related to nuclear fusion and plasma physics.

NIFS-DATA

Data series compiling the evaluated basic data for fusion science and related fields.

NIFS-MEMO

Technical data and reference for newly developed devices, databases, hardware and software of computer codes.

Table 1 Number of published NIFS reports

	FY 1989-2007	FY 2008	TOTAL
NIFS	885	63	948
NIFS-DATA	101	4	105
NIFS-TECH	14	0	14
NIFS-PROC	73	6	79
NIFS-MEMO	55	2	57
Annual Report	19	1	20

The office also collects laboratory reports and other literatures concerning nuclear fusion and related fields from foreign institutions. The total number of collected reports in this fiscal year was about 100 and approximately 36,200 reports have been collected so far.

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