

Toward a cyber science infrastructure

Realization of a cyber science infrastructure (CSI) via coalition of universities and NII

High reliability and large capacity

- Quick service recovery owing to multi-loop topology
- Introduction of Japan's first STM-256(40Gbps) lines

User-oriented services

- A rich variety of services corresponding to the trend of cutting-edge academic activities

Enhanced international collaborations

- An Asian core of the international academic network

Academic network

NII provides SINET3, the innovative information network with its leading technology, which connects academic institutions throughout Japan as the core component of the CSI.

Academic information

NII is striving to develop a next-generation scholarly content infrastructure by collaborating with scholarly communities to ensure that information about their activities can be disseminated.

NII Scholarly and academic information portal

Digitization of Japanese academic articles and E-journal archive

SINET3 carries on its operations since April 2007.

Support for institutional repositories

CSI= Cyber Science Infrastructure

Cultivation of human resources and development of framework of promoting and securing personnel

Virtual research organizations and live collaboration

Development of scholarly and academic information and institutional repositories

Development of research grid software for collaborative utilization of supercomputers

University PKI initiative for secure and reliable infrastructure

New ultrahigh-speed network: SINET3

Development of research resources/ Dissemination of research achievements produced at universities

International contributions and cooperation

Industrial and social contributions

Collaboration and cooperation among academic communities for advancing CSI construction

Universities and Research Institutions

National Institute of Informatics

Organization for Science Network Operations and Coordination

Network Systems Working Committee

Authentication Systems Working Committee

Grid Systems Working Committee

Working Group for Information Security Policy for National Universities and Institutions

Organization for Scientific Resources Operations and Coordination

Library Liaison Working Committee

Academic societies and related institutions

Institutional repositories program

Institutional repositories hold the key to the future of scholarly communication.

Universities in Japan are strongly encouraged to share academic information with every member of society to satisfy the need for accountability. Distribution and sharing of information on academic activities in a university activates economy and industry and promotes culture, thereby enhancing the presence of the university as an information hub.

Universities are expected to ensure secure and open access to scholarly information on every kind of research activity.

In this context, institutional repositories are considered to be the best organizations to collect, organize, preserve, and disseminate scholarly information originating from universities.

※Definition (Clifford A. Lynch, 2003):

A university-based institutional repository is 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.

Innovative research and development on institutional repositories

