

Toward a cyber science infrastructure

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

Higher speeds at every node,
enhancement of
super SINET

Introduction of
dedicated lines
to Asia

SINET3, an ultrahigh-
speed next-generation network

Academic network

NII provides an
academic information
lifeline and an
ultrahigh-speed
network.

Academic content portal

Scholarly content

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.

Digitization of Japanese
academic articles
and E-journal archive

Support for
institutional repositories

Contribution to industry and society, international collaboration

CSI: Cyber Science Infrastructure

Establishment of
next-generation
academic information
infrastructure

Virtual research
organizations
Live collaboration

Practical development of a research
grid as the basis of distributed
computing environment

Development and practical
deployment of an authentication
system in universities

Cultivation of human resources and
development of framework (Organization of
promotion system, securing of personnel)

Construction of next-generation
science information networks

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

International contributions and cooperation

Collaboration and cooperation among academic community 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

Organization for Scientific Resources
Operations and Coordination

Institutional Repository
Working Committee

Academic
Societies

Related
Institutions

Research Organization of Information and Systems

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Institutional repositories

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Research Organization of Information and Systems

国立情報学研究所

National Institute of Informatics

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.

