## **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

Academic network

NII provides an academic information lifeline and an ultrahigh-speed

SINET3, an ultrahighspeed next-generation network **Academic content portal** 

## **Scholarly** content

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

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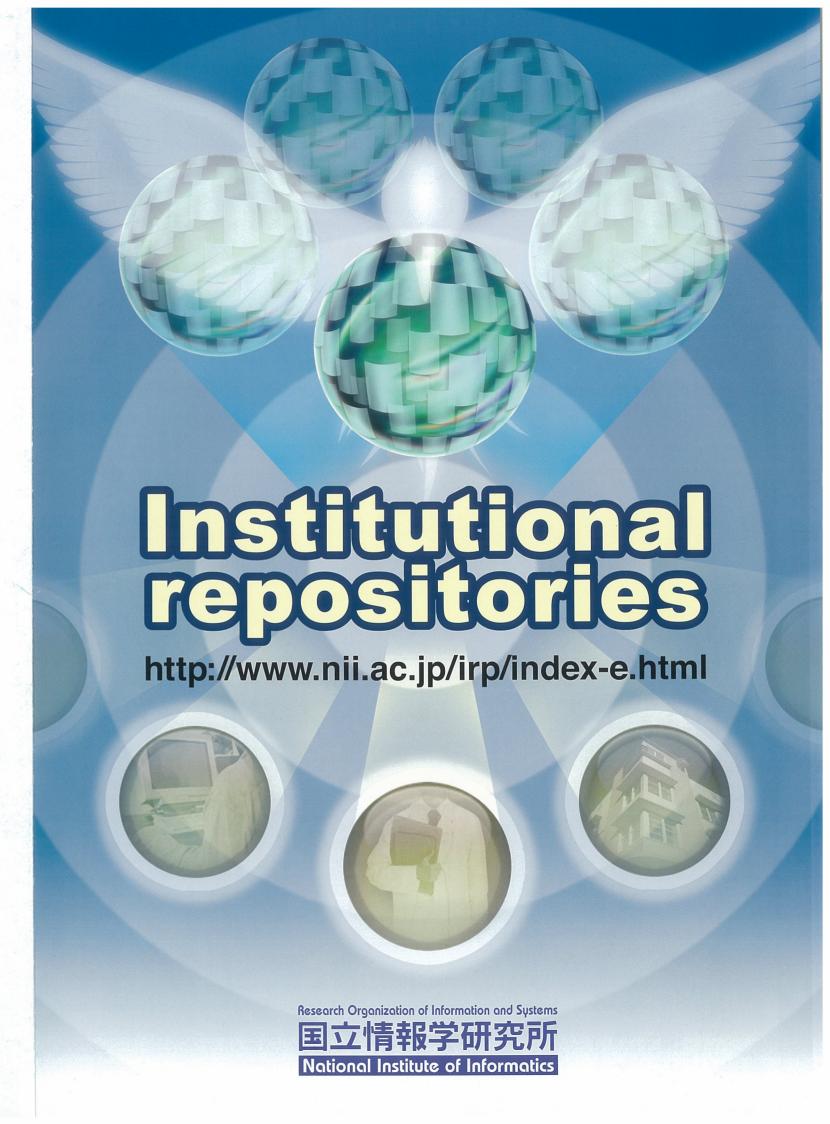
Academic Information Management Section II Content Division

Development and Operations Department National Institute of Informatics

URL http://www.nii.ac.jp/irp/index-e.html

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## 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.

The National Institute of Informatics (NII) Nara Women's University has conducted a collaborative program Shimane University in a university activates economy and with universities in Japan to support the Okavama University operation of institutional repositories since Hiroshima University industry and promotes culture, thereby 2004. It involves the extension and integration Yamaguchi University of existing scholarly content services at NII Kochi University enhancing the presence of the university as and the enhancement and improvement of Kvushu University Ochanomizu University Saga University information dissemination from universities Hitotsubashi University In 2006. NII commissioned the development Nagasaki University an information hub. **Vebcat Plus** Kumamoto University University Oita University KAKEN Universities are expected to ensure secure Niigata University Kagoshima University Ryukyu University Kanazawa University CiNii Bibliographic and Shinshu University and open access to scholarly information on Library-related Gifu University Keio University Information on Nagoya University Toyo University Books and every kind of research activity. **Project reports** Tohoku University Hosei University funded by JSPS Yamagata University Waseda University Journal articles Kanto Gakuin University In this context, institutional repositories are Fukushima University **Bulletin articles** Kyoto University Doshisha University Obihiro University of Kansai University Kyoto Institute of considered to be the best organizations to Technology Kwansei Gakuin University Veterinary Medicine Osaka University Kochi University of Technology University of Tokyo collect, organize, preserve, and disseminate Osaka Kvoiku University Tokyo University of Foreign Studies Hyogo University of Teacher Education Ritsumeikan Asia Pacific University Kitami Institute of scholarly information originating from Cooperation Information on academic Activities universities. Books.iournals intellectual property(patents, software) Journal articles, theses, bulletins Learning materials Project reports Data on cultural heritage Scientific databases \*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 Support for institutional **Establishment of** management and dissemination of digital materials created by the repositories institutional repositories institution and its community members. **Constitution of scholarly information** Innovative projects for research and development of institutional repositories Evaluation of Sharing copyright Development of Educational support via Link-resolver readiness Metadata extension institutional repositories policy information effective search system institutional repositories Linkage to faculty IR as publication Development of Creation of System development Subject repositories performance database platforms open-source IR software research communities

Cross-search

**Academic information** 

from universities

NII

user 808

Dissemination

from institutions

Universities

Kobe University

Nara University of Education

**Dissemination of scholarly contents** 

Coalition