Institutional Repository in Japan

"Standing on the Shoulders of Digital Giants"

International Symposium on Institutional Repositories, e-Science and the Future of Scholarly Communication

Session 3: The Challenge of Digital Resources for Higher Education

Yoshito Itoh (Director of the Nagoya Univ. Library)





An institutional repository will be "must-have" like a university website today



Outline

- 1. The present of institutional repositories in Japan
 - Governmental policy on scholarly information infrastructure
 - Activities of university libraries
 - Cyberscience infrastructure
- 2. Current situation of NAGOYA Repository
 - Place within Nagoya University
 - Collaboration with in-campus organizations
 - Marketing activities and problems
 - Researcher Community
 - Interuniversity collaboration



Policies for scholarly information infrastructure

1

Mar 2002

Digital research infrastructure WS, Information science and technology panel,

Committee of research plan and evaluation, Science Council MEXT

On enhancement of infrastructure for scholarly information (Summary)

Improvement of dissemination of scholarly information functionality of universities

Urgent need for mechanism of systematically dissemination scholarly information with a view to directly get university's research results to the population



Policies for scholarly information infrastructure

Mar 2002

Mar 2006

Scholarly information infrastructure WG Research environmental panel, Committee of science, Science Council MEXT

Future developments for scholarly information infrastructure (Report)

Promotion of institutional repositories and scholarly dissemination from universities

Universities as the most resourceful research institutions must put stress on active dissemination of their research results in respect of both enhancing research and education activities and improving scholarly communication and contribution to society



Policies for scholarly information infrastructure

3

Mar 2002

Mar 2006

Scholarly information infrastructure WG Research environmental panel, Committee of Science, Science Council MEXT

Future developments for scholarly communication (4) Approaches to open access

Promote institutional repositories in research oriented institutions as new means of scholarly communication shall be encouraged in collaboration with scholarly societies in view of strengthening not only better scholarly dissemination but improved institutional repository



Governmental policy on scholarly information infrastructure 4

Mar 2002

Mar 2006

March 28 2006 Cabinet approval

Science and Technology Basic Plan, 3rd Term

Improvement of research information Infrastructure

Encourage digital archiving of scholarly journals for disseminating of research information as assets of the country.

Disirably, articles published for the purpose of making research from public funding public must be available on line for free after a certain embargo period.



Activities of university libraries 1

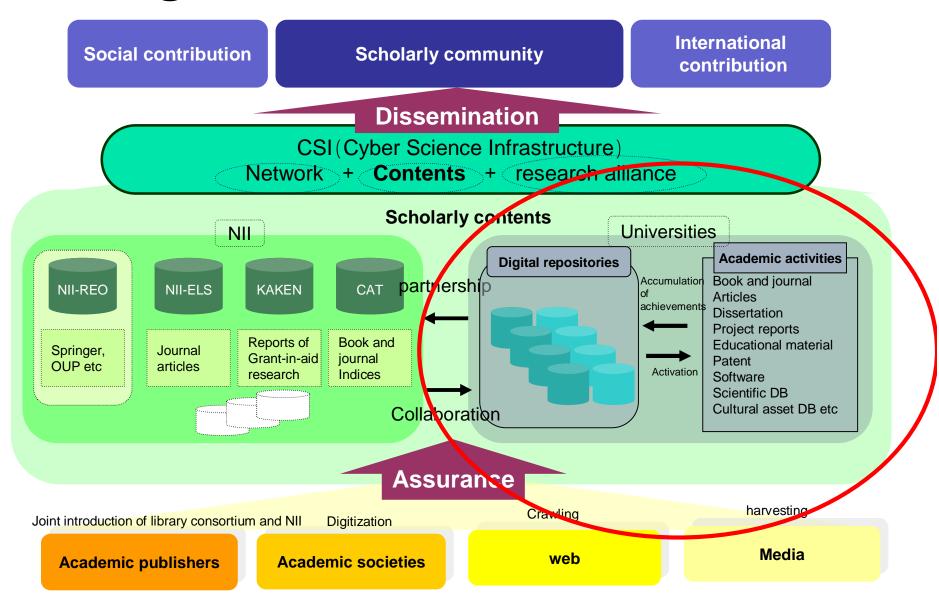
- New trends of digital libraries
 - interface among information sources and users with a high additional value
 - WG of committee on advanced information libraries, JANUL (May 2003)
 - Enhancement of dissemination of in-campus information via institutional repositories
 - Institutional repositories are to be implemented mainly in university libraries in order to strength the information dissemination function of universities



Activities of university libraries 2

- An implementation of institutional repository software
 - ◆ June 2004-March 2005 (NII)
 - Purpose Accumulate experiences on implementation and operation of IR via research on existing institutional repositories and experimental operation of IR software
 - 6 Partners Hokkaido University, Chiba University, Tokyo University, Tokyo Gakugei University, Nagoya University, and Kyushu University

Next generation content infrastructure





Commissioned project 2005

- Partners selected on the basis of past achievements and concrete planning concerning institutional repositories
- Partners (19 universities)
 - Hokkaido, Tohoku, Tsukuba, Chiba, Tokyo, TIT, Tokyo Gakugei, Kanazawa, Nagoya, Kyoto, Osaka, okayama, Hiroshima, Yamaguchi, Kyushu, Kumamoto, Nagasaki, Waseda, Keio



Project extended (2006)

- Basic concepts
 - Two goals
 - Nationwide promotion of institutional repositories
 - Innovative research and development
- Two areas of operation
 - Area 1 (Implementation and operation of institutional repositories)
 - Area 2(Innovative research and development)
- Result of selection process
 - 57 universities are accepted
 - ◆ 22 R&D projects approved



Repositories in Japan

- ◆ 23 repositories are working (as of December 12)
 - http://www.nii.ac.jp/irp/info/list.html
 - Hokkaido, Tsukuba, Tokyo, Tokyo Gakugei, Chiba, Nagoya, Mie, Kanazawa, Kyoto, Osaka, Kobe, Okayama, Hiroshima, Yamaguchi, Kyushu, Nagasaki, Kumamoto, Keio, Waseda, Kanto Gakuin, Ritsumeikan APU, Okinawa Kokusai, JETRO

Activities in Nagoya University





Current situation of NAGOYA Repository

Contents

Journal articles	388	Books	9
Theses and dissertations	317	Conference materials	52
Bulletin articles	3,477	Learning materials	49
Special collections	29,889	Web resources	1,937

As of Dec 7 2006

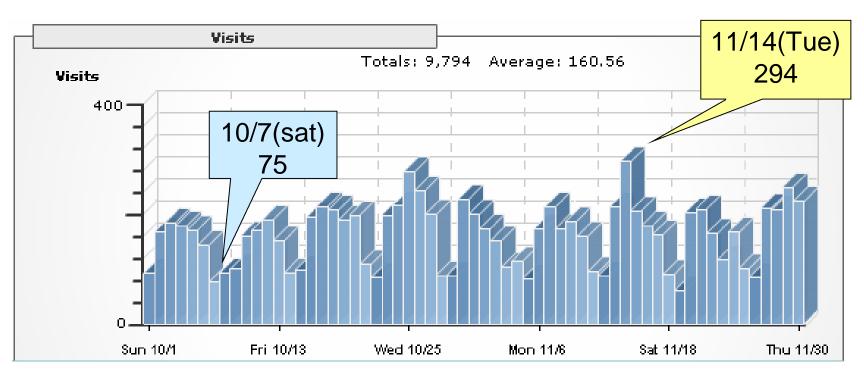


Visits

Average 161/day

(10/1/2006-11/30/2006)

max:294 min:75



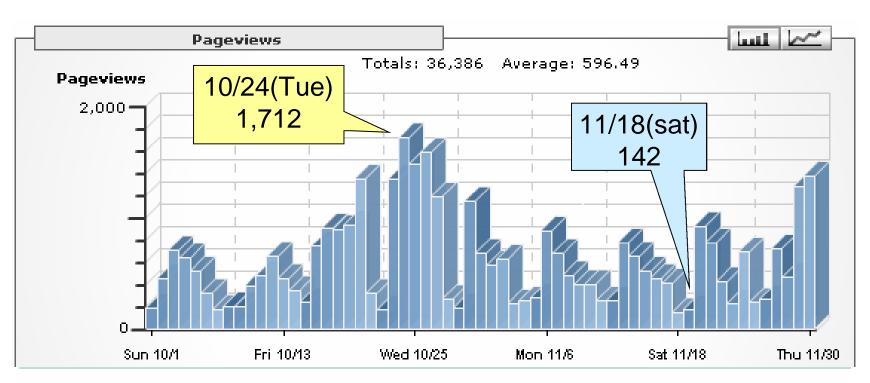


Page views

(10/1/2006-11/30/2006)

Average 596/day

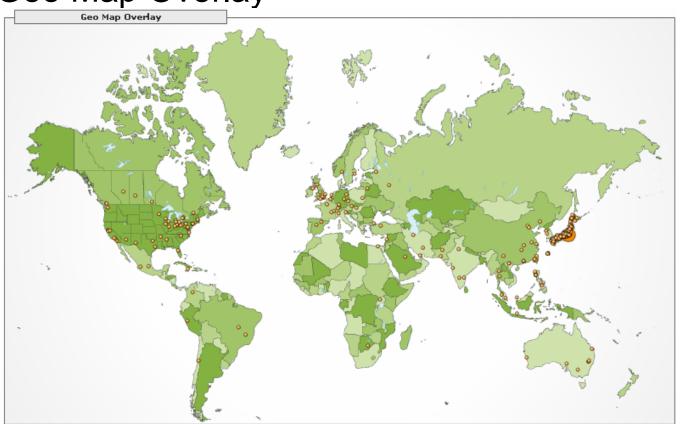
max:1,712 min:142





Geo Map Overlay

Access from worldwide

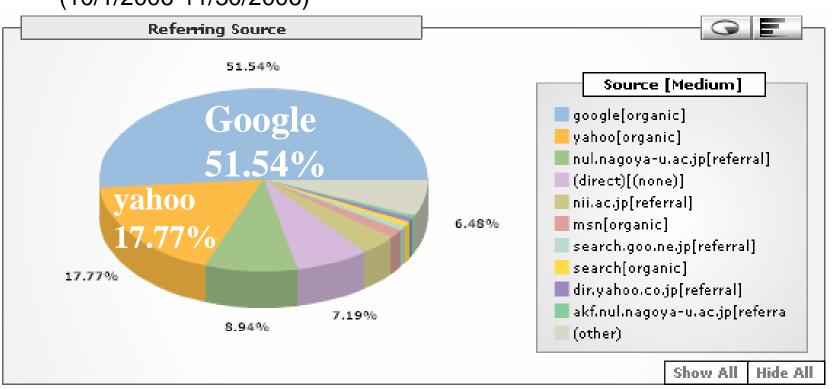




Referring source

(10/1/2006-11/30/2006)

70% from Google or Yahoo



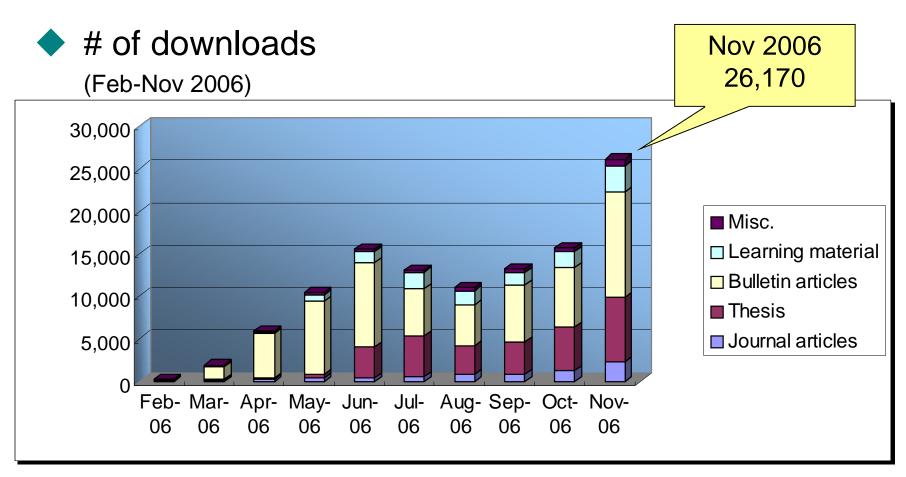


Total 113,619

of downloads (Feb-Nov 2006)

	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Total
Journal articles	82	150	269	421	416	524	838	806	1,224	2,363	7,093
Theses	3	97	143	430	3,583	4,838	3,387	3,838	5,148	7,532	28,999
Bulletin articles	147	1,496	5,196	8,638	9,985	5,586	4,782	6,683	7,039	12,422	61,974
Learning materials	9	94	174	646	1,266	1,934	1,683	1,512	1,867	3,071	12,256
Misc.	58	96	159	295	333	277	407	409	481	782	3,297
Total	299	1,933	5,941	10,430	15,583	13,159	11,097	13,248	15,759	26,170	113,619







- summary
 - ◆ 160 person, 600 page views / day
 - 3.8pages/person on average
 - Southeast Asia, north America, and Europe as well as Japan
 - More than 70% come via search engines (Google / Yahoo!)
 - More than 10K downloads a month

Top-down





Place within Nagoya University

Open to public on Feb 28, 2006



President Hirano of Nagoya University, greeting in symposium (Mar 9, 2006)



2006.2.28

名大から世界へ

研究成果を公開



Place within Nagoya University

- President's greetings, Symposium
 - Institutional repository at Nagoya University is a university-wide activity to digitally accumulate, preserve, and disseminate scholarly outputs
 - ◆ For content enhancement, not only collaboration of all departments with the university library, but more importantly, willingness of researchers to make their research outputs publicly accessible



Place within Nagoya University

University-wide operation

- University-wide
 - = necessary for perpetual stewardship
 - Presidential briefing 2005/11/29
 - ◆ Board briefing 2005/12/20

Significance for university

Emphasize the strength of Nagoya U Social Accountability

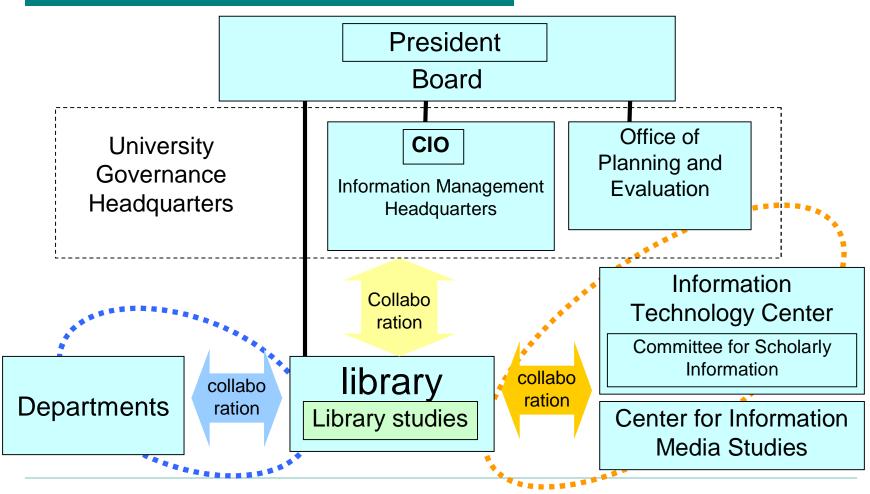


University-wide operation



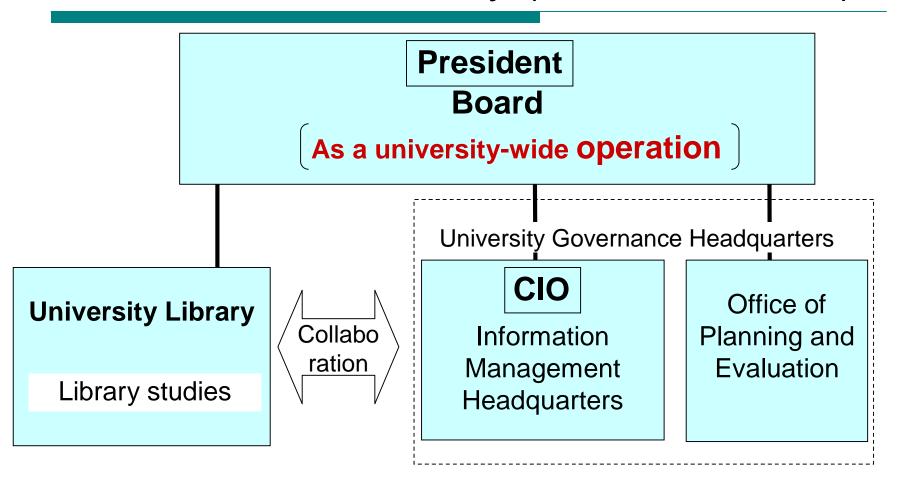


Place within Nagoya University (a big picture)





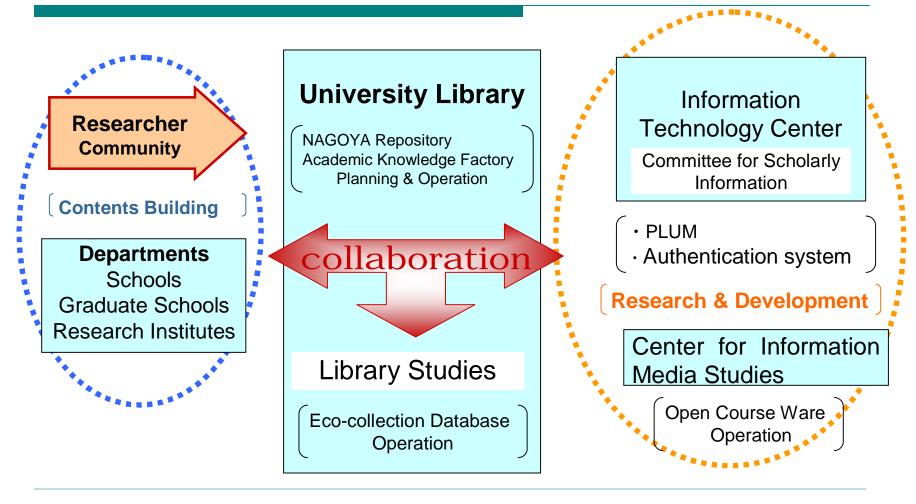
Place within University (Executive level)



Tie-up









- University Library Studies
 - =System development & Support
 - Eco-Collection database
 - AKF: Academic Knowledge Factory



- Information Technology Center=System development & support
 - **◆** PLUM
 - Nagoya Univ. ID system (Authentication)

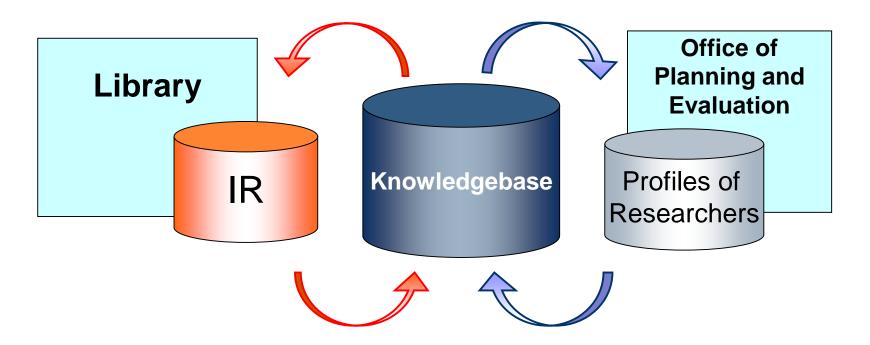


Center for Information Media Studies=Research and development

 Nagoya University Open Course Ware LOM = Learning Object Metadata
 NIME (National Institute of Multimedia Education) LOM



The Office of Planning and Evaluation Nagoya University Profiles of Researchers





Bottom up



Marketing activities

- Departmental briefing have attended
 (19 meetings since 2006.2.1)
 - 20-30 min before department meeting
 - Explanation by Director of University Library and library staff
 - What is institutional repository?
 - Significance for university, researchers, and scholarly communication
 - Motivation for item registration
 - Q and A



Marketing activities: Feb-Jul 2006

説明会

説明会はご要望に応じて開催します。少人数のグループでも構いませんのでお問合せください。

<スケジュール>

	日時	字部	場所	備考
First	2月 1日(水)13:00-13:30	経済学部・経済学研究科	2F 第一会議室	教授会の前の時 間
	2月 8日(水)13:00-13:20	文学部•文学研究科	文学部127講義室	教授会の前の時 間
	2月 8日(水)14:00-14:30	法学部•法学研究科	法学部 会議室	教授会の途中
	•		x 1= E111 1 2.1W.	
	5月31日 (水) 14:00-14:20	農学部•生命農学研究科		教授会の前の時 間
	6月21日(水)13:30-14:00	情報科学研究科	附属図書館5階多目的室	教授会の前の時 間
19th	7月5日(水)15:00-	[現4見 子][打光][外	環境総合館1階レクチャーホール	教授会の前の時 間

http://ir.nul.nagoya-u.ac.jp/pub/koho/IR_setumeikai.html



- Researchers understand but few registrations
- Author versions are often lost
- Nervous on different appearances and contents
- Con: faculty evaluation



FAQ

We do not want to have files publicly available if they are different from published version. Only published versions are research output.

Redundant PDF copies appear. It is not cost effective.

Researchers are professionally trained to find primary information. Then repositories are for private sectors, not for university researchers.

It is not cost effective that each university operates an institutional repository.

We want to publish our research output as books. We do not want to register them if institutional repositories work against book-form publication.



Initial depositors

- Allow IR deposit of files on personal webpages.
- Mention to NAGOYA Repository on their websites
- Propose e-submission of theses at department meetings



Allow IR deposit of files on personal webpages.

Thank you for your briefing on institutional repository. The idea impressed me.

Some PDF of my papers are available on the web server of my office.

Please deposit them if there is no problem. I will make links to your repository from my website.



Mention to NAGOYA Repository on their websites Links with handle from the paper list

```
August 18 (Fri.), 2006
Deposited the following papers with permission of society. Near xxx xxxxx xxxx xxxx xxxx Annals of the ...

http://hdl.handle.net/2237/****

August 16 (Wed.), 2006
Link from my paper list to Nagoya Repository

August 11 (Fri.), 2006
Got a completion notice of Nagoya Repository deposit. They are helpful. They negotiated with
```



- Forming a community of IR-friendly researchers to enhance deposits
- Forming a community of hundreds of researchers to support IR



Significance for researchers

Researchers can disseminate their own outputs to the world



More access, more visibility cited 5.6 times more in physics



All outputs of a researchers will become searchable and accessible when more data are accumulated

Significance for researchers

University stewards digital files for the next generation

Permanent access

URL: http://hdl.handle.net/2237/4377

NAGOYA Repository

Paper number



- Copyright permission
 - Too much care of publishers and academic societies
 - Paper list becomes not comprehensive if some are not permitted
 - Time consuming process for permission
 - Contacts to coauthors are sometimes difficult



Publishers and academic societies

Copy-right transfer is common. So publishers and societies are in charge of permission, not authors.

I published my dissertation as a book this January. It is not polite to the publisher that I deposit the file to IR. I will consider to deposit it 3 years later.

IEEE holds the copyrights of papers published by IEEE. I believe that authors can personally distribute a copy, but universities cannot, since nobody will buy a paper from IEEE. Please doublecheck.



Copyright policies

- Publishers out of Japan
 - SHERPA

Publisher copyright policies & selfarchiving

http://www.sherpa.ac.uk/romeo.php

- Investigation of copyright policies on the websites of publishers and academic societies
- Hearing if unclear or unable



Copyright policies

- Publishers in Japan
 - JANUL IR support website http://www.tulips.tsukuba.ac.jp/ir/
 - A quick report on copyright
 - Investigation of copyright policies on the websites of publishers and academic societies
 - Hearing if unclear or unable intended to enhance clear copyright documentation



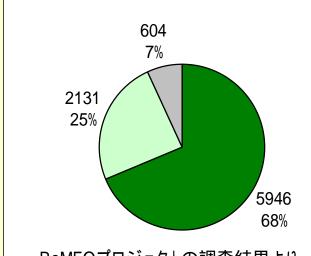
Copyright policies

Publishers

- investigation results
- OK for publishers version
 IEEE · AIP · INFOSTA · IPSJ
- Individual permission · · IEICE
- Under consideration · · NLP · JSPE...
- No reply · · Astronomy
- ◆ No permission · · IEE · JSPE

Publishers' attitudes toward IR

75% of publishers and 93% of journals agree selfarchiving outside of Japan



RoMEOプロジェクトの調査結果より http://romeo.eprints.org/stats.php

- ポストプリント(査読後 の著者最終稿)の自主 保管を認める雑誌
- □ プレプリント(査読前の 投稿原稿)の自主保管 を認める雑誌
- □ 自主保管を認めない雑 誌

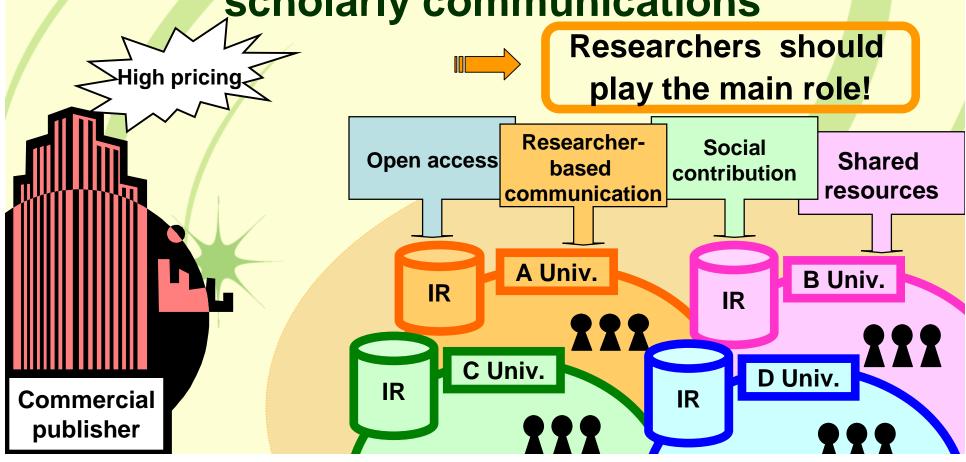
Most permit author version, while some permit publisher version.

Domestic journals: under investigation by JANUL Many publishers are under considerations

Self-archiving with author permission only is OK if there is no documented copyright condition (e.g. proceedings of international conferences)

Significance in scholarly communication

Commercialistic publishers lead scholarly communications





- Summary
 - Researchers should sufficiently understand copyright issues
 - Libraries provide and update copyright information
 - Libraries negotiate with publishers on behalf of authors

Objections are better than ignorance

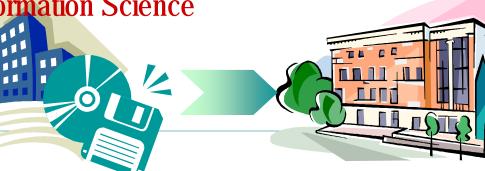


Ongoing content collection

- Dissertations submitted to graduate school of information science
 - Deposit request and agreement form are distributed at dissertation orientation
 - Electric files of dissertations are forwarded to the university library Graduate School of Library







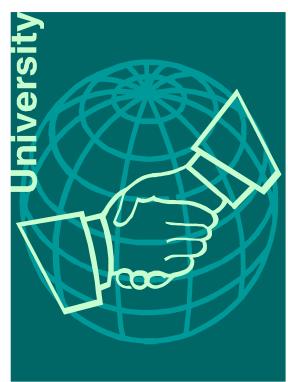




Interuniversity collaboration

- CSI operation, area 2: innovative research and development
 - Development of link resolver ready system

Hokkaido (main) Tsukuba, Chiba, Kyushu, Nagoya





Inter-university collaboration

- Development of link resolver ready system
 - AlRway (Access path to Institutional Resources via link servers)
 - More access counts to institutional repositories
 - More visibility
 - Metadata standard and system implementation

2006/10/25 AIRway Mailing List

- >> AIRWay本番用サーバを立ち上げました。
- >> http://airway.lib.hokudai.ac.jp/airway/index.jsp
- >>
- >> 現在, HUSCAPとNAGOYA Repositoryのデータが入っています。



Inter-university collaboration

- Meetings of IR staff in national universities in Tokai area
 - Toward collaboration in the area
 - Sharing experiences of Nagoya University NAGOYA Repository Labs. (website) http://info.nul.nagoya-u.ac.jp/pubwiki/
- CSI operation symposium in Tokai area
 - 1. UPKI 9/22
 - 2. IR 11/8
 - 3. UPKI and grid computing 12/15

