




Title	Institutional Repository at National Taiwan University
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Note	

The University of Osaka Institutional Knowledge Archive : OUKA

<https://ir.library.osaka-u.ac.jp/>


The University of Osaka



NATIONAL TAIWAN UNIVERSITY LIBRARY

Institutional Repository at National Taiwan University

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Outline

- Background
 - ◆ Overview of IR
 - ◆ Research Archiving in Taiwan
 - ◆ Overview of development of IR in Taiwan
- NTU's experiences in IR
 - ◆ NTU Repository (NTUR)
 - ◆ System architecture and features
 - ◆ Contents of NTUR
 - ◆ Promotion for NTUR
- Copyrights in IR
 - ◆ Separation of copyrights
- TAIR and IR30 project
 - ◆ Goals and Visions
 - ◆ Current state and Participating Institutions
- Conclusions

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Essence of Institutional Repository

- IR system has to try its best to display **full texts** of data items for users
- IR system can preserve research histories and results
- IR system is an excellent platform for knowledge preservation and sharing

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Necessities of IR – Researchers' Viewpoints

- Traditional academic publishing models are too slow to keep up with fast-paced outputs of scientific researches
- Papers with full text available on web will have wide readership and citation rates
 - ◆ Take computer science for example
 - Offline paper cited times: 2.74
 - Online paper cited times: 7.03
 - ⇒ Increase by 157%

Source: Lawrence, S. (2001). Free online availability substantially increases a paper's impact. *Nature*, 411. Retrieved Jan. 21, 2008 from <http://www.nature.com/nature/journal/v411/n6837/full/411521a0.html>
- Open access will increase cited times from 50 % to 250%

Source: Hajjem, C., Gingras, Y., Brody, T., Carr, L., & Harnad, S. (2005). Open Access to Research Increases Citation Impact. Technical Report. Institut des sciences cognitives, Université du Québec à Montréal. Retrieved Oct. 8, 2007, from <http://eprints.ecs.soton.ac.uk/11687/>
- As the Internet gains even wider usage, citation rates for online papers will continue growing quickly

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Necessities of IR – Institutions' Viewpoints

- Possible to analyze and evaluate research categories, trends, and results
- Demonstrate research capacity via a single gateway
- Strengthen academic influence and raise visibility

- Cost to publish by publishers still increase, universities will need an alternative to disseminate research results
 - ◆ ArXiv (<http://arxiv.org>) as a dissemination system, it operates at a factor of 100-1000 lower cost than a conventional peer-reviewed system.

Source: Ginsparg P (2001) Creating a global knowledge network. In: Proceedings of the second ICSU Press-UNESCO Conference on Electronic Publishing in Science (Elliot R, Shaw D, eds). Retrieved Jan. 21, 2008, from http://www.icsu.org/5_abouticsu/CDSI_web/EPS2/ginspargfin.htm.

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Current State of IR's Development

- Many universities around the world have already launched IR systems.
- Most IRs have a collection of thousands items, few have that of ten thousands items.

- Currently only small number of countries have official policies to support IR development at the government level.
- However, the support is very active at the university level

- Few universities in Taiwan have installed their IRs; many have started planning IR; some have started deploying IR systems

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Higher Education in Taiwan

- 163 universities and colleges including polytechnics

	Junior Colleges	Independent Colleges	Universities
Public	3	11	41
Private	13	42	53
Total	16	53	94

- Universities have to find ways to demonstrate academic or practical research results in terms of one identity



Research Archiving in Taiwan

- Journal articles
 - ◆ National library is responsible for services of table of contents and document delivery
- Conference papers
 - ◆ No systematic archiving plan
- Technical reports
 - ◆ No systematic archiving plan except few funding organizations
- Theses & Dissertations
 - ◆ Some universities have archived their own theses and dissertations with full texts
 - ◆ National library has archived printed theses and dissertations with digital abstracts for both. Some have digital full texts as well.

Why Need Institutional Repository



- especially for Taiwan or Asian Countries

- The number of published papers is large, but the citation rate is comparatively lower
- The following table shows statistics of paper published by the top ten universities in Taiwan from 1996 to 2006

University	Number of papers published		Paper cited		Highly cited papers	
	Numbers	Rank of the world	Cited times	Rank of the world	Numbers	Ratio
NTU	22,623	83	138,819	231	133	0.6%
NCKU	12,374	218	60,292	467	57	0.5%
NTHU	9,076	323	45,976	570	41	0.5%
NCTU	8,706	331	31,168	732	45	0.5%
YMU	5,724	486	44,975	576	18	0.3%
NCU	5,288	508	25,563	844	37	0.7%
NSYSU	4,858	534	18,666	1,050	13	0.3%
NCHU	4,118	619	18,452	1,058	4	0.1%
NTUST	3,424	727	12,518	1,383	5	0.1%
CGU	3,000	800	15,541	1,195	12	0.4%

Source: Huang, M. H. (2007). Taiwan : Towards the Challenge of The Top Universities in the World. *Evaluation Bimonthly*, 5, 16-21. Retrieved Jan. 21, 2007 from http://epaper.heeact.edu.tw/images/epaper_heeact_edu_tw/PDFFile/2007_0108_no005/5_4-4_16-21.pdf (in Chinese)

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Building IR to Solve Problems



- Research outputs in Taiwan are scattered without information systems to present a whole picture of research achievements and to feature searching and browsing functions for potential users.
- Many operational information services provide only metadata and abstracts rather than full texts.
- No systematic way to deposit important digital materials such as conference papers and technical reports
- Institution's self-consciousness makes it to host a system as a persistent repository and an exchange platform for research results.

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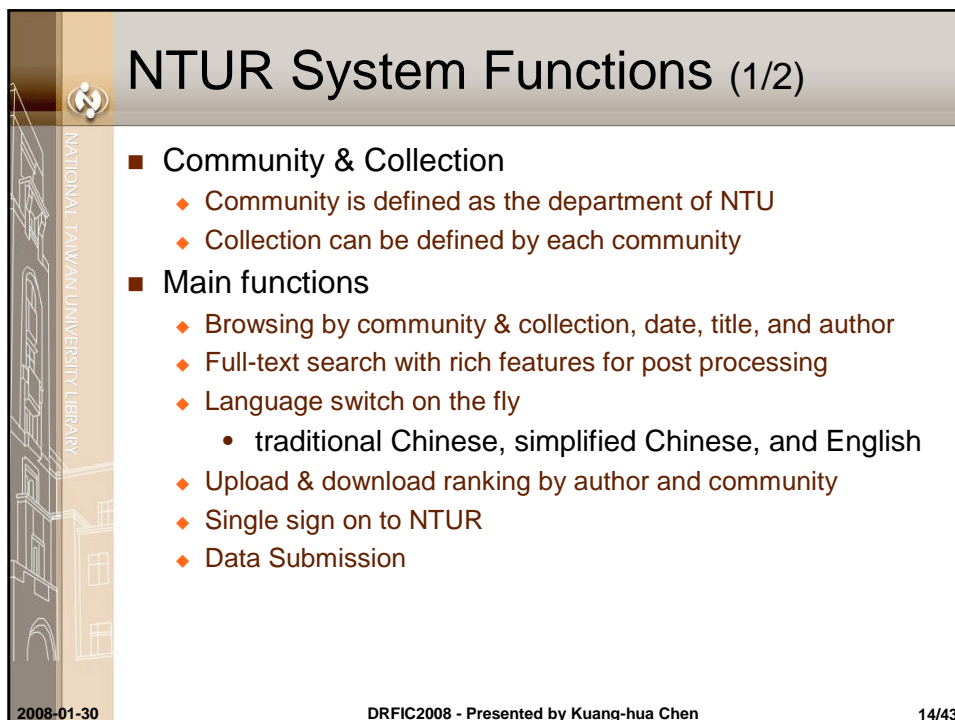
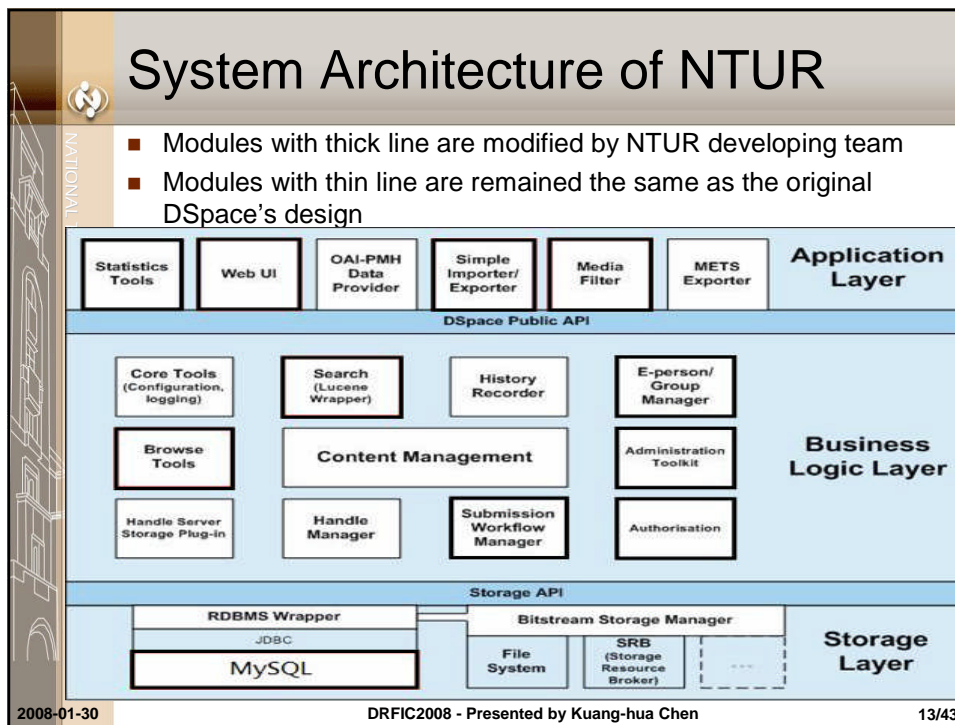



A presentation slide titled 'Possible Solutions to IR Systems'. It features a vertical banner on the left with the NTU logo and the text 'NATIONAL TAIWAN UNIVERSITY LIBRARY'. The main content area has a light beige background with a dark brown header. The title is centered in a large, dark brown font. Below the title, there are three main bullet points, each with a dark brown square icon. Each main bullet point is followed by two sub-bullet points, each with a teal diamond icon. The sub-bullet points provide specific examples of IR systems used by other universities.

Possible Solutions to IR Systems

- Purchase commercial software or services
 - ◆ Columbia University purchases the services provided by ProQuest, i.e., the Digital Commons.
 - ◆ However, Columbia University has decided to use DSpace in the near future.
- Use open-source packages
 - ◆ University of Michigan at Ann Arbor uses DSpace.
 - ◆ University of Southampton uses EPrints.
- Modify open-source packages
 - ◆ NTU Library modifies DSpace based on the local requirements to develop NTUR

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NTUR System Functions (2/2)

- No need to login for data browsing, searching and downloading
- Need to login for data uploading
 - ◆ Single sign on policy
 - ◆ Interactive mode
 - Faculty and Ph.D. students can upload data by themselves or ask contact staff to help
 - Master students and undergraduates have to ask contact staff to help
 - ◆ Batch mode
 - Only open to contact staff of departments or subject specialists of library

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Potential Items in IR

- Journal articles
- Conference papers
- Dissertations and Theses
- Teaching or training materials
- Technical Reports
- Speech materials
- Preprints and postprints
- Any digital object

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Items Acquisition

- Collect items from Internet and other databases
- Cooperate with interested departments first
- Consider different methods for different departments
- Hold promoting activities and workshops
- Explain the copyright issues
- Do not force faculty to participate but persuade them of advantages of IR
- Do not bother faculty but expect staff

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Number of Registered Items in NTUR

Updated on 2008-01-07

- Over 45,000 metadata records
 - ◆ Technical reports: 23,000
 - ◆ Journal papers: 4,000
 - ◆ Conference papers: 1,500
 - ◆ Theses and dissertations: 13,000
 - ◆ Others: 3,500 (from NTU press and websites)
- About 27,000 with searchable full texts
 - ◆ Technical reports: 9,000
 - ◆ Journal papers: 3,700
 - ◆ Conference papers: 1,300
 - ◆ Theses and dissertations: 11,000 (full-text indexing only)
 - ◆ Others: 2,000

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Promoting Strategy

- Procedural level
 - ◆ The priority of archiving
 - ◆ Rights and mandatory
 - ◆ Interoperability among existent information systems
 - ◆ Users community
 - Setup contact window
 - Compile name list of faculty and graduates
 - ◆ Mechanism for long-term operation of IR
 - ◆ Cooperation with other unions or consortiums
- Administrative level
 - ◆ Administrative regulation for IR
 - ◆ Encouraging measures

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 - Periodical Articles [15/21]
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 曾麗星; Chien, Chia-cheng, 2007
 [外國語文學系] 博碩士論文
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行政院國家科學委員會專題研究計畫 成果報告

新富雇主、跨國移工、認同政治(2/2)

計畫類別：個別型計畫
 計畫編號：NSC93-2412-H-002-004-SSS
 執行期間：93年08月01日至95年01月31日
 執行單位：國立臺灣大學社會學系暨研究所

計畫主持人：藍佩嘉

計畫參與人員：羅融

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 1 2 3 4 5 6 7 8 9 10 > >>
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Date	Title	Creator
1963-04	Neutron Total Cross Section of Arsenic at 14 Mev	Hsu, Y.C.; Huang, C.Y.; Tseng, P.K.; Tai, Y.K.; 許登基; 黃家裕; 鄭伯昌; 蕭通勳
1963-04	New Scheme for Calculating Nuclear Radii	Hwang, Jenn-Lin; 黃振麟
1963-10	Counting Efficiency of Nuclear Multiplate Camera	Huang, Chia-Yi; Hwang, Jenn-Lin; Hsu, Yui-Chi; Tai, Yui-Kwei; 黃家裕; 黃振麟; 許登基; 蕭通勳
1963-10	Absence of Zero Sound in Superfluid Fermi Systems	Kobe, Donald H.
1964-04	Radii, Surface Diffuseness, and Binding Energies of Atomic Nuclei	Hwang, Jenn-Lin; Yang, Yah-Shian; 黃振麟; 楊亞仙
1964-04	Angular Momentum Distributions in the Thomas-Fermi and Thomas-Fermi-Dirac Models of the Atom	Hwang, Jenn-Lin; 黃振麟
1964-10	The Iris-Loaded Wave Guide as a Boundary Value Problem	Kroll, Wolfgang
1964-10	Angular Momentum Distributions in the Atomic Nuclei	Hwang, Jenn-Lin; Horng, Jyi-Cherng; 黃振麟; 洪吉成
		Hsu, Yui-Chi; Huang, Chia-

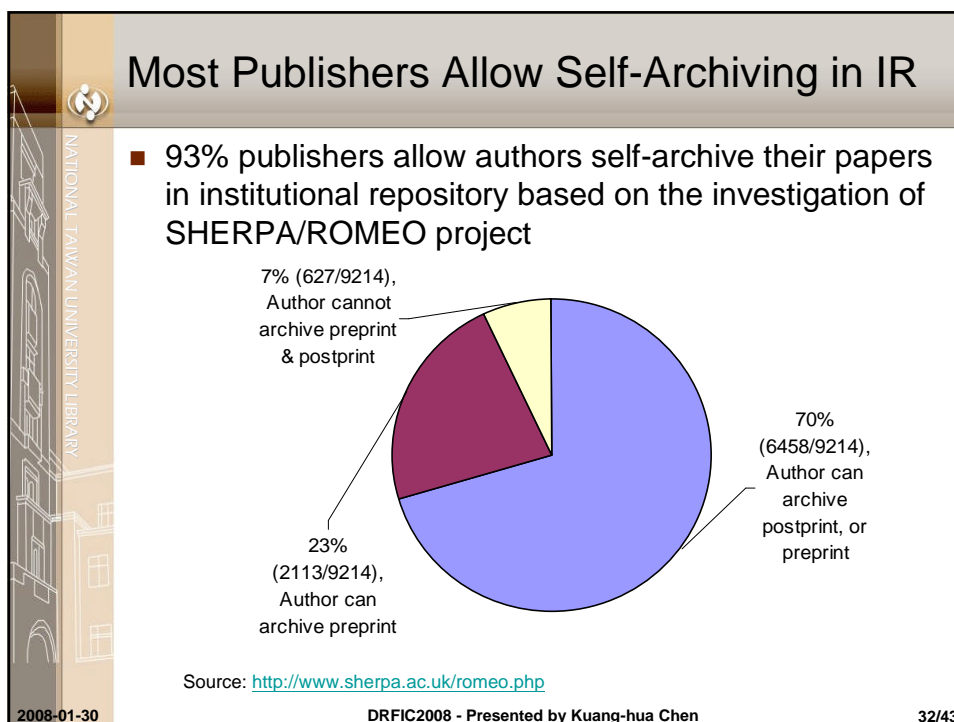
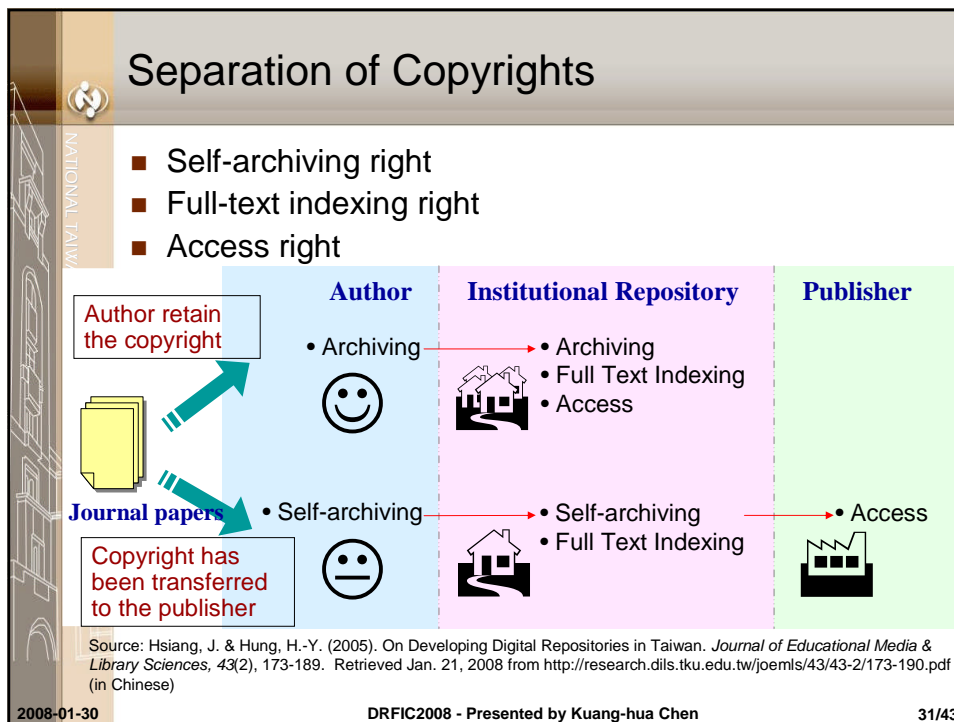
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Why can Archive Published Papers

- Separation of copyrights
 - ◆ Self-archiving right
 - ◆ Full-text indexing right
 - ◆ Access right
- Most publishers allow the first two rights at least according to the survey of SHERPA/ROMEO project
- If institutions have access right to some journals, IR systems should provide full texts for papers published in those journals
- Otherwise, IR systems have to carry out full-text indexes and then feature full-text search functionality for users
- If there are no full texts, IR systems have to provide metadata and informative links

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Policies of Copyrights of Publishers						
Publisher	Full-text index	Personal website	IR	Free public servers	Embargo period	Policy
Blackwell Publishing	Y	Y	Y	Y	Varying by journal	Author can post their version of the Article on their personal website, their employer's website/repository and on free public servers in their subject area.
Elsevier	Y	Y	Y			Authors of articles may also post the final version of their manuscript publicly on their personal website or their institution's website (including institutional repository).
Nature	Y	Y	Y		Six months	Authors are encouraged to archive their version of the manuscript in their institution's repositories and on their personal web sites.
Oxford	Y		Y			Authors have the right to deposit the postprint and/or URL or PDF of the finally published version of the article into an institutional or centrally organized repository.
IEEE/IEEE	Y	Y	Y			Authors and/or their companies shall have the right to post their IEEE-copyrighted material on their own servers without permission.
Springer-Verlag	Y	Y	Y			An author may self-archive an author-created version of his/her article on his/her own website and his/her institution's repository.
ACM	Y	Y	Y	Y		Authors retain the right to post author-prepared versions of the work in a personal collection on their own Home Page and on a publicly accessible server of their employer.
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Copyrights in Taiwan - Situations	
 NATIONAL TAIWAN UNIVERSITY LIBRARY	<ul style="list-style-type: none"> ■ 10% of academic publications are published by international publishers
	<ul style="list-style-type: none"> ■ The copyright of 15% of academic publications was transferred to domestic publisher
	<ul style="list-style-type: none"> ■ The copyright of 25% of academic publications was reserved by authors (non-exclusive license, or open access)
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Taiwan Academic Institutional Repository (TAIR) & IR30 Project

<http://ir.lib.ntu.edu.tw/>



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TAIR

- Reach a consensus of “many institutional repositories, a centralized gateway”
- Raise visibility and respectability of Taiwan’s researches
- Present Taiwan’s research capacity as a whole
- Contribute to research communities all over the world

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Goals and Visions of TAIR

- Build a mechanism for “many institutional repositories, a centralized gateway”
 - ◆ “Many institutional repositories” will remain the specialty of each institution and demonstrate its research outputs
 - ◆ “A centralized gateway” will present achievements of researches of Taiwan as a whole
- A gateway for IRs in Taiwan
 - ◆ Short-term goal
 - Federated search for metadata via OAI-PMH
 - ◆ Long-term goal
 - Federated search for full texts via centralized indexes or meta-search

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IR30 project (1/2)

- Conform to “many institutional repositories, a centralized gateway” to push institutions in Taiwan to construct their own IR systems
- Help at least 30 institutions to build their own IR systems by May 2008
 - ◆ NTU selects 6 seed institutions with qualified IT technology based on the regional distribution and helps them to deploy IR systems
 - ◆ Each seed institution helps other institutions near by to deploy IR systems
 - ◆ Invite institutions with deployed IR systems to join TAIR
- Up to Dec. 2007, 22 universities and 36 polytechnics join IR30 project

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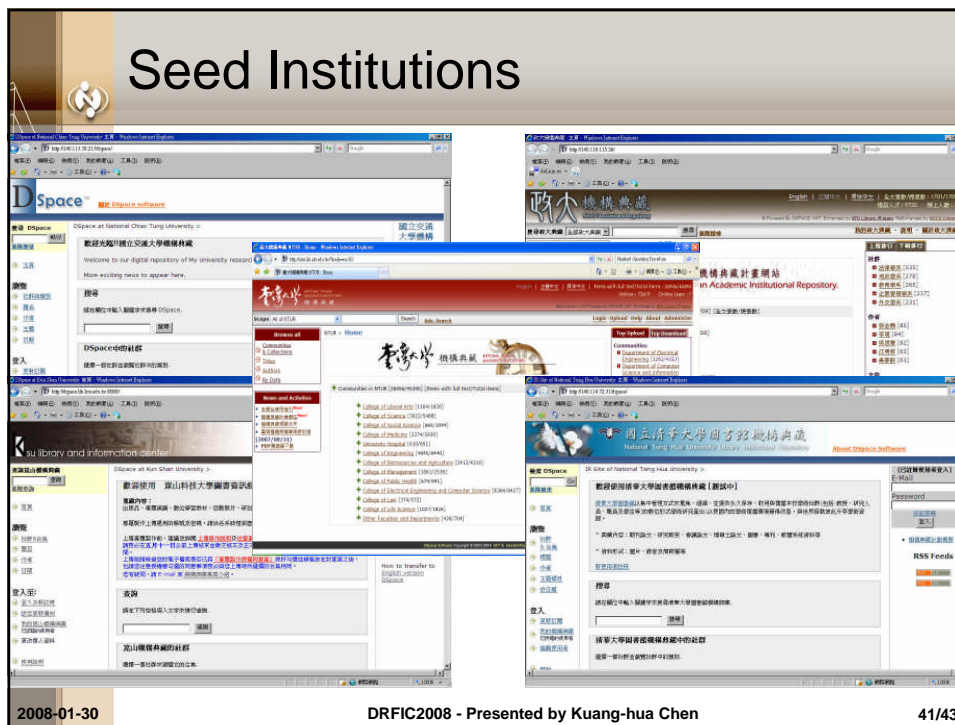
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IR30 Project (2/2)

- NTU release NTUR package with comprehensive manuals and training materials
 - ◆ Free IR software, NTUR, (DSpace enhancement)
 - ◆ Technical documents and user's guides
 - ◆ System functional requirements
 - ◆ Standard Operating Procedure (SOP)
 - ◆ User's FAQ
 - ◆ Training materials
- Hold workshops for promotion of IR concepts and construction of IR systems

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Seed Institutions



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Conclusions

- Government funds construction of IR
 - ◆ NTU is responsible for implementation of IR package
 - ◆ NTU will release IR package and help other institutions
- Implement our own IR package based on open-source software
- We have effective development strategy
 - ◆ Seed institutions go first
 - ◆ Participating institutions follow up
 - ◆ A tree scheme for effective and efficient development
- Polytechnics are interested in IR particularly
 - ◆ IR systems can demonstrate the specialties of polytechnics
- TAIR will be a gateway with federated search for full texts via centralized indexes or meta-search

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