



CALIS Digital Library Project——

**Repository of Special Collections
in Chinese Higher Education**

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Wuhan University Library

October, 2008

Outline

- ❖ Principles, methods & contents
 - ❖ Project organization & management
 - ❖ Project implementation
 - ❖ Project achievement
 - ❖ Future work
-

Principles, methods & contents

- ❖ Repository of Special Collection (RSC) in Chinese higher education is one of the important sub-projects of China Academic Library & Information System (CALIS) during the “tenth five-years plan” of China
 - ❖ RSC project Approved by CALIS in 2003
-

Principles, methods & contents

❖ **General principles & objects**

- Creating distributed databases in clusters by sub-projects/different libraries.
 - Adopting uniform standards or criteria in the database construction
 - Forming a unified RSC system based on integrated metadata sets in the central portal and distributed digital objects in the local system
 - Providing open access to the metadata and document delivery service to CALIS members upon the contract agreements
-

Principles, methods & contents

❖ Building methods

- Adopting appropriate standards and protocols
 - DL standards and protocols, such as OAI Protocol ,OpenURL and METS
 - unified Metadata Standards to facilitate interoperability and establish RSC central portal which based on integrated metadata set
 - Establishing a series of criteria for local system, central portal and digitalization process
 - Unifying functions of interface and services for sub-projects
 - Using centralized management and defining quality control methods
-

Principles, methods & contents

- ❖ The contents digitized mainly focus on
 - Special educational collections on key disciplines
 - Unique resources of research topics
 - Interdisciplinary studies
 - Regional and historical humanistic resources
 - Special collections owned by only one or a few libraries, or scattered information resources which is hard to use
-

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 - ❖ Project implementation
 - ❖ Project achievement
 - ❖ Future work
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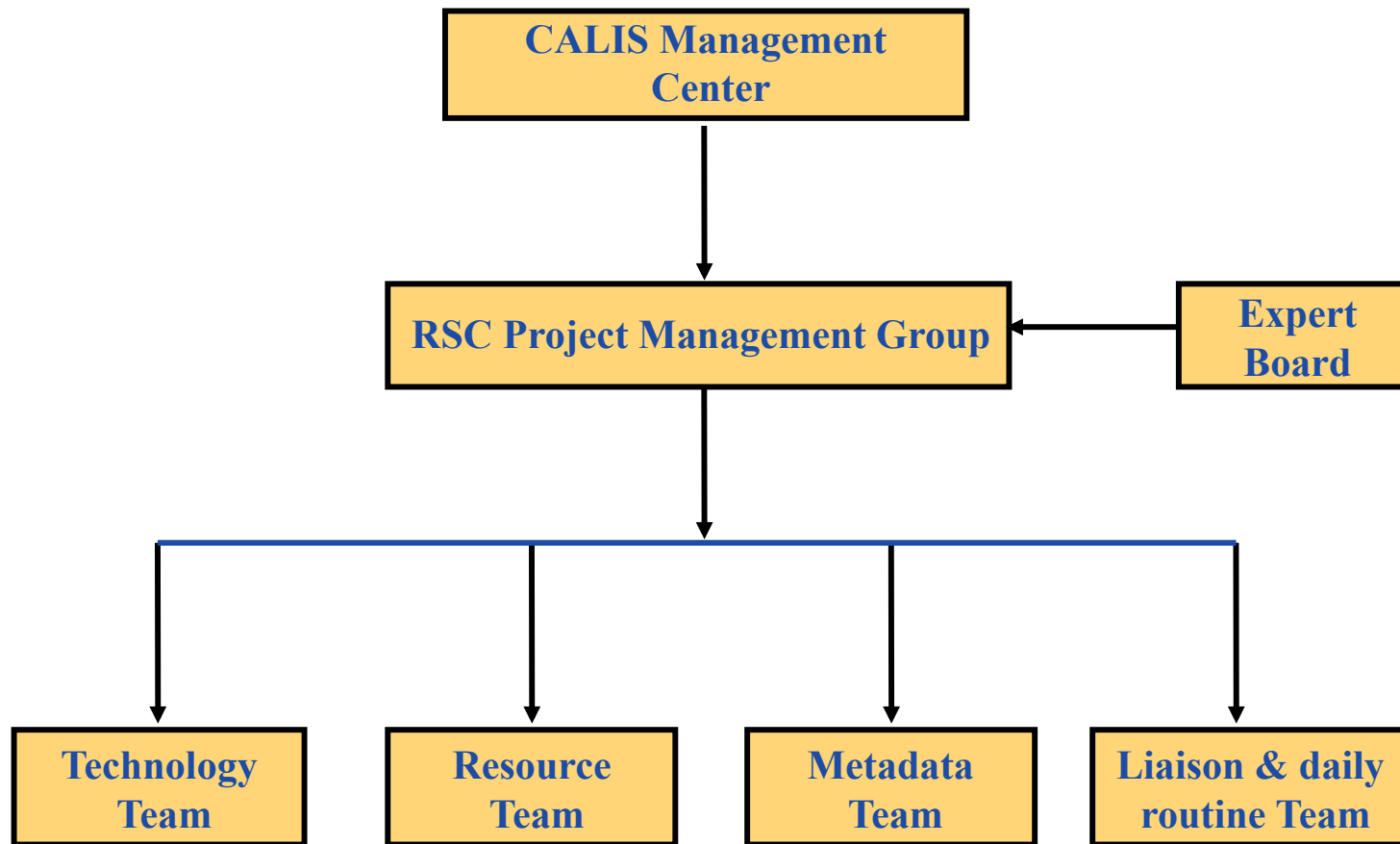
Organization and management

- ❖ RSC project is organized by the Project Management Group which run under Wuhan University Library
 - ❖ Project Management Group consists of 7 members from the following academic libraries
 - Peking University Library
 - Tsinghua University Library
 - Wuhan University Library
 - China Agricultural University Library
 - Shanghai Jiao Tong University Libraries
 - Xi'an Jiao Tong University Libraries
 - Jilin University Library
-

Organization and management

- ❖ The Management Group set up four project teams dealing with the whole project operation and progress:
 - Technology team
 - Resource team
 - Metadata team
 - Liaison and daily routine team
-

Structure of management organization



Project Funding & Budget

- ❖ Initial budget 1 million yuan, additional investment 300,000 yuan, total in 1,300,000 yuan

Item		Planned outlay (yuan)	Actual outlay (yuan)
Project management		50,000	50,000
Fund	Key-funded	450,000	450,000
	Normal-funded	450,000	360,000
Awarded		0	340,000
Platform		0	100,000
Others		50,000	0
Total		1,000,000	1,300,000

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Project implementation

- ❖ There are 7 steps in the whole project constructional flow
 - Publicity of the project initiating, including planning, contents and requirements
 - Candidates of sub-projects' application
 - Review and approval by Project Expert Board
 - Project Implementation
 - Mid-term examination
 - System trial running and probative period
 - Final examination and evaluation by Project Expert Board
-

Project implementation

❖ 2003.12-2004.3

- Project planning and preparation
- Peer review of the sub-projects' applications by the Experts Board

❖ 2004.4-12

- Formulation & development of technology criteria and standards
 - testing & validation of local system
 - User training of local system
 - Constructing of sub-projects
-

Project implementation

- ❖ 2005.1-12:
 - Design and development of RSC central portal
 - Key phases for sub-projects construction
 - ❖ 2006.1-3 : Mid-term examination of the sub-projects
 - ❖ 2006.4-6 : Trial running of Central portal and the entire system
 - ❖ 2006.6 : RSC Project passed final examination and evaluation by the Expert Board of CALIS
-

Project implementation

❖ 2006.9-2007.3

- Evaluation of the sub-projects

❖ 2007.4-6

- Peer to peer review of the sub-projects by the Expert Board and Management Group of RSC

❖ 2007.6-7

- Announcement of the sub-projects evaluation results , the RSC project achieved goals of the “tenth five-years plan” of CALIS
-

Outline

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Project achievement

- ❖ 91 applications from 65 academic libraries applied to join the project
 - ❖ Through the peer review of Project Expert Board, 75 sub-projects were granted and divided into three categories:
 - 9 key-funded projects, each in 50,000 yuan, total in 450,000 yuan
 - 37 average-funded projects, each in 10,000 yuan, total in 370,000 yuan
 - 27 non-funded projects, supported mainly with technical standards, database building criteria and expert consultation services
-

Project achievement

- ❖ 63 sub-projects are finished and 58 passed reviewed evaluation by the Expert Board
 - ❖ some statistics of 55 sub-projects by the end of May 2006:
 - The total records are 4.45 million
 - The full-text documents have reached 1.76 million items which account for the 40% of the whole repository
-

Project achievement

The whole project achieved the anticipated goals

1. RSC developed a set of standards and criteria, and gained useful experience on practicing them in large scopes

- Adopted metadata descriptive standards from ***Chinese Digital Library Standards*** developed by the Ministry of Science and Technology project
 - Developed a series of technical criteria for local system, central portal and digitalization process
-

Project achievement

2. The whole system architecture is based on three technical protocols

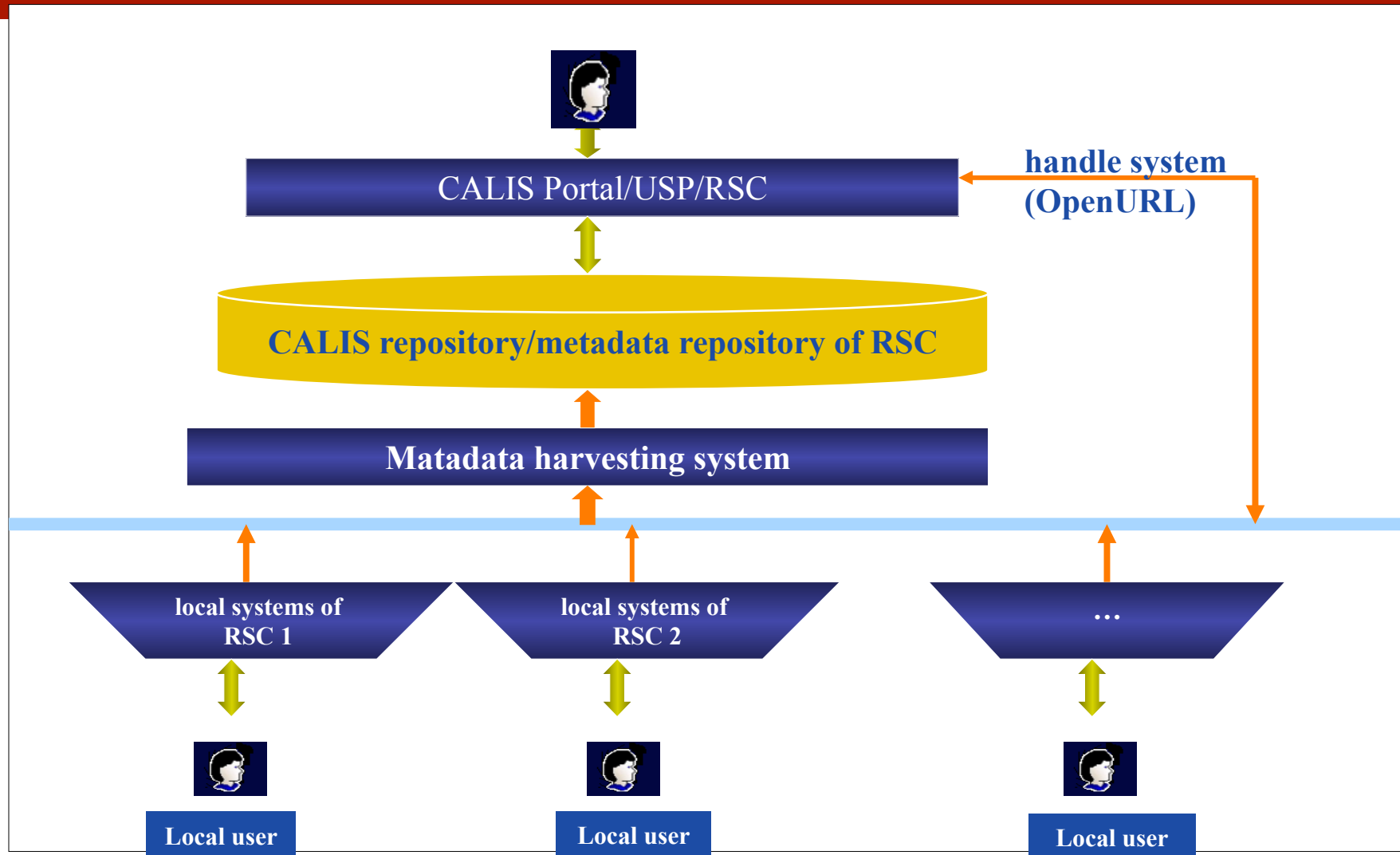
- OAI Protocol for Metadata Harvesting (OAI)
 - Metadata Encoding & Transmission Standard (METS)
 - Object Identifiers developed by CALIS (CALIS-OID)
-

Project achievement

3. Established metadata harvesting and object accessing mechanism between central server and local systems

- The whole system architecture is constituted of two levels, the central service system of CALIS-SCR and the local systems for the partners, which form the structure of centralized metadata sets and distributed object data.
 - Central service provider harvest metadata from data provider of local system through OAI or by FTP.
 - Central service provider access object data from local system through OpenURL protocol.
 - Central service system is part of CALIS Central Union Search Platform, which consists of integrated digital library system with other CALIS resources
-

Data exchange and user service structure



Project achievement

4.Plentiful subjects on special resources

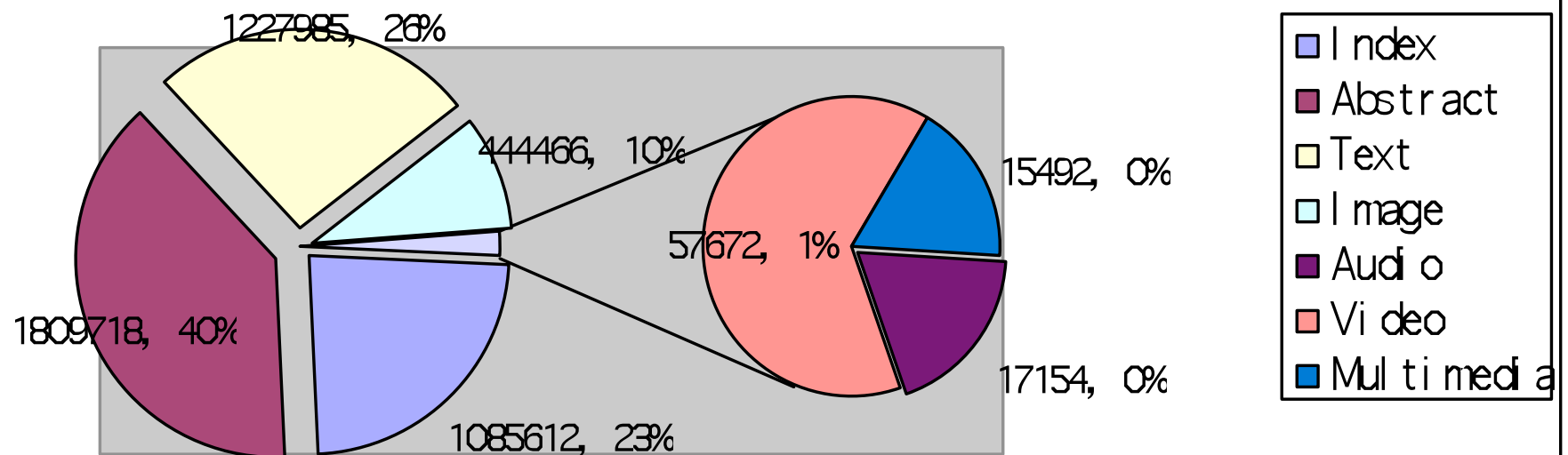
The subjects of 55 special collections by the end of May 2006

Subject	Data amount	Subject	Data amount	Subject	Data amount
Local document	460,294	Agriculture	265,811	Light engineering	154,009
Historical document	407,044	Economics	15,576	Constructional engineering	89,676
politics	77,627	Education	15,703	Hydraulic engineering	371,418
Medicine	179,436	Materials science	165,863	Transportation	83,105
Literature and art	45,250	mining petroleum	86,271	Aerospace engineering	63,394
Personality	116,600	Machinery industry	409,100	Environmental science	83,357
Regional culture	67,466	Communication technology	197,710	Others	7,953

Project achievement

5. The types of digital resources are plentiful, and the proportion of full texts has exceeded 40% of the total amount.

Figure 1 : Distribution of resources types



Project achievement

6.Key-funded projects run well

Sub-Project	Number of records	Resource type	Proportion of full text
Digital Library Database on the History of Science & Technology in China	127,335	Text, image, audio, video	50.4%
Yangtze River Resource Database	199,951	Text, image, video, audio	33.83%
Robot Information System	150,823	Text, image	27.14%
Northeast Asia Research Database	91,375	Text, image, video	21%
Ancient Chinese Rare Book and Documentation in Academic Libraries	201,055	Text, image	54%
Database on Southeast Asia & Fujian-Taiwan Studies	95,271	Text, image, video, audio	51%
Large Zhu River Delta Area Research Database	68,856	Text, image	20%
Ancient Education System	47,000	Text, image, multimedia	96%
Special Collection on Bashu Culture	107,521	Text, image	20.5%

Project achievement

7. Functions of local systems performed smoothly by sub-projects

- There are 8 Local systems selected by 60 academic libraries. All the systems were validated under the unified identifying and testing by CALIS and RSC Management Group, in order to ensure the consistence and integrity of the running platform.
 - Open platform, unified constructional style, unified standards, all of these, trying to insure the quality of databases and perfect resource sharing in a DL environment with large scopes
-

Project achievement

8. The integrity of central portal is successful

- All sub-projects issue on the platform of CALIS-RSC central portal, which provides the hyperlinks (detail records/full-texts/objects) to the local systems
 - Central service portal harvests metadata from local system and stores in a central database
 - Full-text documents and digital objects are provided directly by the local systems
 - Central portal provides to the public free access to the secondary documents
-

Project achievement

CALIS-RSC central portal :

<http://tsk.cadlis.edu.cn/tskopac/>



CALIS专题特色数据库中心网站

- 首页
- 项目概况
- 特色库导航
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- 检索历史
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☑ 相关资源

- 专题特色库子项目管理网站
- CALIS全国中心主页
- CALIS地区中心主页
- CALIS子项目网站
- 数字图书馆相关资源
- 国内高校图书馆自建数据库

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- 中国科技史数字图书馆资料库
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☑ 最新消息

■ 2005年7月11日至12日, 清华同方知网(北京)技术有限公司和CALIS专题特色库项目管理组在风景优美的北京怀柔雁栖湖畔雁北山庄 共同召开了CALIS特

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最后更新日期: 2006年4月12日 [管理员信箱](#)

本网站由武汉大学图书馆维护



CALIS专题特色数据库中心网站

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检索条件

包含以下全部字词 题名

与 包含以下全部字词 责任者

与 包含以下全部字词 关键词

提示: 题名和责任者检索点支持拼音检索

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显示设置

页记录数: 排序方式: 最大显示数:

资源库

Personalized service web page of central portal

The screenshot shows the personalized service web page of the CALIS Specialized Database Portal. The page features a navigation menu at the top, a user login area on the left, and a main content area displaying a list of electronic books. The list includes columns for selection, serial number, title, author, source, and type. The page also includes navigation and action buttons such as 'Home', 'Previous Page', 'Next Page', 'End Page', 'Delete', 'Print', 'Email', and 'Download'.

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CALIS 专题特色数据库门户

CALIS

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记录数: 21 总共页数: 3 当前页码: 1

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<input type="checkbox"/>	2	清理二十七保十團並南十二團職塚案由	陸文龍	高校古文獻特色庫	
<input type="checkbox"/>	3	清上曉晴樓詩稿: 4卷, 曉晴丙子詩2卷	胡煥	高校古文獻特色庫	
<input type="checkbox"/>	4	清內閣庫貯書檔輯刊: 6編, 並首編, 校錄	方勉生	高校古文獻特色庫	
<input type="checkbox"/>	5	明清史料甲、乙、丙編	國立中央研究院歷史語言研究所	高校古文獻特色庫	
<input type="checkbox"/>	6	Low Power Data Dependent Transform Video and Still Image Coding	Xanthopoulos, Theoclydes	CALIS NDLTD	
<input type="checkbox"/>	7	被征服者扼杀的文明-美洲考古大发现	张家梅	NLC_TOC测试用仓储	
<input type="checkbox"/>	8	被征服者扼杀的文明-美洲考古大发现	张家梅	NLC_TOC测试用仓储	
<input type="checkbox"/>	9	被征服者扼杀的文明-美洲考古大发现	张家梅	NLC_TOC测试用仓储	
<input type="checkbox"/>	10	周易略例: 1卷	王弼	高校古文獻特色庫	

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-

Future work

- ❖ We still have some problems. The biggest trouble is funding. The total investment on the project is limited. Funds granted to the sub-project are so low that participating libraries should spend much more money on local system, equipments etc. The prompting to the participants are very limited
 - ❖ The second problem is the coexisting of 8 different local system software. Their development and different features, such as AP Interface, plug-in.... bring certain difficulties to the progress of the whole project
-

Future work

- ❖ Keep the financial support to the RSC, ask for more fund both from sponsors and the participating libraries, to maintain the continuity and integrality of the whole project
 - ❖ Choose some excellent sub-projects, give them concentrated support and build demonstration databases with excellent content and advanced technology, as the guiding design of digital library
-

Future work

- ❖ Change supporting models, put more support emphasis on the technology, for example, provide free software to all participating libraries or at very low expense, in order to take the CALIS-RSC into sustainable development
 - ❖ Discussing RSC products sharing and benefits reimbursing mechanism, establishing related service and charging system to the society.
-



CALIS-RSC

Sub-Project Demo

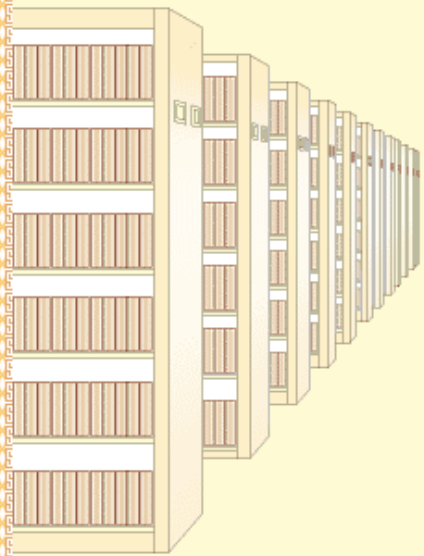
中国科技史数字图书馆资料库

- ❖ Digital Library Database on the History of Science & Technology in China
 - ❖ By Tsinghua University Library
 - ❖ Types of resources: catalog, abstract, text, image, video, multimedia, etc
 - ❖ Divided into 8 sub-databases by subject or type of resources
 - ❖ Number of Records:127,335, 50% of which are full-texts.
 - ❖ Website:
<http://166.111.120.21:4237/home/database/htm>
-



中国科技史数字图书馆资料库

Digital Library Database on the History of Science & Technology in China



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建议使用Netscape 4.0 或IE 5.0以上，800×600分辨率以上进行浏览
信息最后一次更新：2006年12月25日

长江资源库

❖ Yangtze River Repository

❖ By Wuhan University Library

- established together with the Library of the Yangtze Water Conservancy Committee and Wuhan Library of the Chinese Academy of Sciences.
- Types of resources: catalog, abstract, text, image, video, multimedia, etc
- Divided into 8 sub-databases by types of resources: articles, websites, knowledge, pictures, medium, news, books, index
- Number of records: 199,951, 34% of which are full- texts.

❖ Website:

http://202.114.65.50/tpi_5/sysasp/include/index.asp



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检索

中国科学院武汉文献情报中心研制

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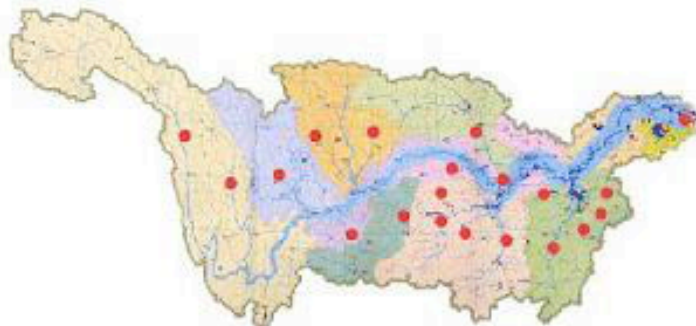
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检索

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- 长江文化
- 长江水利
- 长江环保
- 长江百科

资源类型

- 论文库
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- 知识库
- 图像库
- 媒体库

高校古文献资源库

- ❖ Ancient Chinese Rare Book and Documentation in Academic Libraries
 - ❖ By Peking University Library
 - Cooperated with libraries of Nanjing University, Beijing normal university and Sichuan University
 - Developed criteria for digitization process of ancient Chinese rare book and documentation, and developed an online cataloging system based on metadata. Number of records:201,055, 54% of which are full-texts.
 - ❖ **Website:**
<http://rbsc.calis.edu.cn/aopac/index.htm>
-

學苑汲古

高校古文獻資源庫

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- ❖ Database on Southeast Asia & Fujian-Taiwan Studies
- ❖ By Xiamen University Library
 - Subject fields: politics, economics, society, history, culture, law, military affairs, folk-custom, clan, emigration, traditional opera, traditional arts and crafts
 - Types of resources: catalog, abstract, text, image, video, audio, etc
 - Number of records: 95,271, 51% of which are full-texts.
- ❖ Website:

<http://210.34.4.13:8080/asia/login.aspx?targetName=imptBase>

东南亚及闽台研究数据库

Database on Southeast Asia & Fujian - Taiwan Studies

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- ❖ Special Collection on Bashu Culture
 - ❖ By Sichuan University Library
 - The exclusive database on the history and culture of Sichuan province and Chongqing city.
 - Types of resources: catalog, abstract, text, image, etc
 - Number of records: 107,521, 21% of which are full-texts.
 - ❖ Website:
 - http://202.115.54.20/scu/outline_bsw.html
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巴蜀文化特色库

Digital Library



- 导航树
 - 巴蜀文化特色库
 - 全文
 - 图书
 - 期刊论文
 - 文摘
 - 期刊论文
 - 川剧
 - 目录索引
 - 图书目录
 - 论文索引
 - 民国期刊
 - 民国图书
 - 郭沫若专题
 - 巴金专题
 - 图片
 - 巴蜀图片
 - 博物馆图片
 - 导航库
 - 民俗
 - 文献
 - 专家
 - 机构



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项目概况

巴蜀文化特色数据库是具有巴蜀地方特色和四川大学图书馆馆藏资源特色、方便实用、技术先进的专题文献库。该数据库 独具巴蜀地域及其历史人文特色，全面覆盖巴蜀（四川和重庆）的地方历史、文化相关的文献源；该数据库 体现了本馆在巴蜀地方文献收藏上的特有优势和馆藏特色；该数据库可作为支持四川大学教育部“十五”“211工程”重点学科建设项目“中国区域历史与宗教文化”的重要数字资源，而且可成：高等教育数字图书馆的基础数据库之一。

书院文化数据库

❖ Ancient Education System

❖ By Hunan University Library

- Introduces the general pictures, histories and actuality of more than 8,000 colleges distributed in China and other Asian country, United State, Italy,etc.
- Number of records:47,000, 95% of them are full texts.

❖ Website:

<http://acd.hnu.cn:82/>



書院文化數據庫


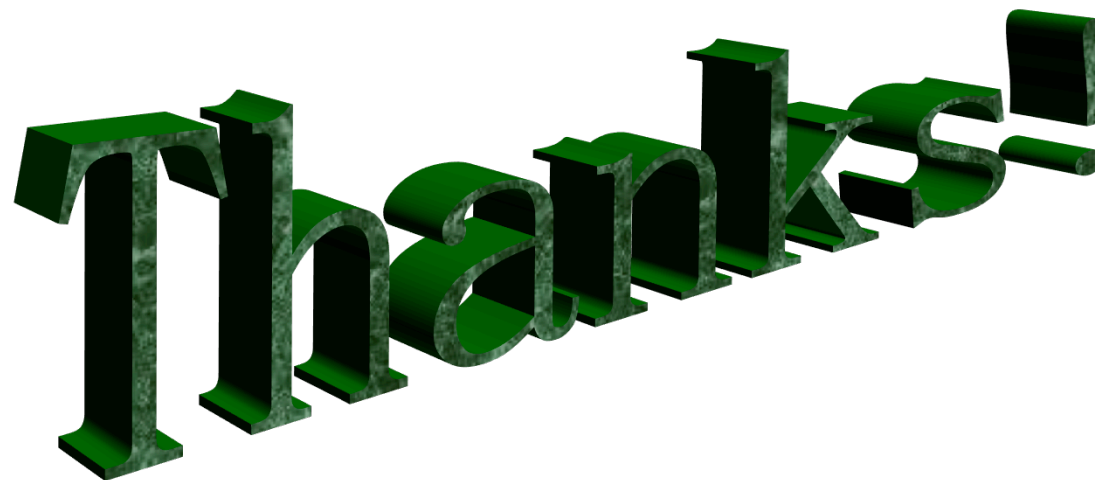


[书院一览](#) [书院人物](#) [书院文献](#) [书院揽胜](#) [书院百科](#)

书院是中国士人围绕着书，开展包括藏书、读书、教书、讲学、校书、著书、刻书等各种活动，进行文化积累、创造与传播的文化教育组织。自唐至清有千余年历史，遍布除西藏以外的全国所有省区，总数在7000所以上。它为中国教育、学术、文化、出版、藏书等事业的发展，对民俗风情的培植，国民思维习惯、伦常观念的养成等都作出了重大贡献。明代开始，书院又走出国门，传到朝鲜、日本、东南亚各国，甚至欧、美的意大利、美国等国，为中华文明的传播和当地文化的发展作出了贡献。因此，自八十年代开始，在重振中华文化的大势下，其研究受到教育、历史、哲学、文化等各界重视。



任意词 检索 高级检索 帮助


The word "Thanks!" is rendered in a 3D, blocky font with a green, textured surface. The letters are arranged in a slightly ascending line from left to right, giving it a sense of depth and perspective.

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