

National Central Library Localized, Digitized, and Globalized

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National Central Library Localized, Digitized, and Globalized

I. Preservation and Management of National Documents

Just as with national libraries in other countries, National Central Library (NCL) has the historic responsibility to preserve all national publications. This is what sets NCL apart from other libraries in Taiwan. NCL is the legal depository for all national publications according to article 15 of the *Library Law*.

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Due to this function, the Library has the largest collection of ROC publications published since 1946. The Library has also spared no effort to collect original or reproduction works on Taiwan from before 1946, including more than 2,000 transaction, loan, pawn and other types of contracts drafted in Taiwan during the Ming and Cing periods; Taiwan block prints; historic maps in Chinese and western languages; over 4,000 postcards with pictures of scenery and aboriginal life in early Taiwan; 19th century magazines in Chinese and western languages; and print and microfiche versions of newspapers published in Taiwan in earlier periods.

In enriching an already diverse array of materials and augmenting its digital holdings, NCL's digitization efforts include the following: Chinese rare books, old books, periodicals, dissertations and theses, government bulletins, government statistical data, gazetteers, local documents, genealogies, old contracts, old photos, manuscripts of famous persons, etc. In addition, in response to development trends in publishing and to increase the acquisition of various types of publications (such as audio-video, e-books, etc.), it provides a replete and variegated array of audio and visual historical documents and programs. The Library is also working with other libraries, archives, and private collectors, both in Taiwan and abroad, to cooperate on digitization projects.

II. Use and Promotion of National Documents

The Library, based on legal designation, is a modern hub for publications in Taiwan. It also aids the publishing industry in obtaining ISBNs, CIPs, and ISRCs, as well as creating databases for searching collections and special materials. The Library began automating its operations in 1980, creating a line of applied information systems and digital databases. While the databases primarily focus on publications in Taiwan, NCL has taken step to make these resources more available to the rest of the world by creating a digital version of National Central Library (<http://www.ncl.edu.tw>) that provides service 24/7. Also available for access are information systems for bibliographies, indexes, full-text images, ancient books and manuscripts, and audio-visual material. To preserve the nation's e-publications, it has created a system for depositing e-versions of publications, which can also be searched by the general public. It also gradually began integrating the various systems to provide a single entry portal that can be personalized based on user needs. In 2012 approximately 460 million people accessed NCL's systems.

III. Main NCL Information Systems

1. Bibliographies and Indexes

National Bibliographic Information Network (NBINet)

<http://nbinet.ncl.edu.tw/>



This is an union catalog system resulted from the cooperation of libraries in Taiwan. It was first launched in 1998 and can be accessed at <http://nbinet.ncl.edu.tw>. There are currently over 80 participating libraries (including NCL), with over 10 million bibliographic records from participating libraries' catalogs and CIP records created by ISBN Center at the NCL. In addition to providing bibliographic resource for copy cataloging, the system is also accessible to the general users via the OPAC. The many services provided include exporting bibliographic records in Chinese MARC or MARC21 ISO2709 format in Unicode for use by libraries, and text files for general users, intersystem searching and retrieving capabilities compatible with Z39.50 protocol, and guidance for conversion among Unicode, Big-5, and CCCII encoding.

ISBNnet

http://isbn.ncl.edu.tw/NCL_ISBNNet/

National Central Library's ISBN Center began promoting the ISBN system in Taiwan in July 1989 and was formally established in February 1990. It began actively promoting the ISBN and CIP system, a new milestone in the standardization and internationalization of Taiwan publications. In 1993, ISBN/CIP data began regularly being entered into NBINet for use by libraries in procurement and cataloging efforts. In 1997, the Library began offering search capabilities on its website. In July the following year, the ISBNnet was created (<http://isbn.ncl.edu.tw>). Downloading capabilities were also added for the booklists on the site. In January 1999, the Library began publishing *New Books Monthly: Recent*



and Forthcoming Publications in Taiwan, ROC based on publication information in applications for ISBNs/CIPs. *New Books Monthly* contains the newest and most comprehensive book publication information and reviews in Taiwan. In 2009, a daily publication announcement was added (subscribe at: tps.ncl.edu.tw), which regularly announces new books in various disciplines for reference in reading and purchasing.

Synergy of Metadata Resources in Taiwan (SMRT)

<http://metadata.ncl.edu.tw/>

This system aids users in finding various resources available at NCL in a single integrated platform. It was first made available in 2013 and can be accessed at <http://metadata.ncl.edu.tw>. It contains over 50 databases created and maintained by the NCL, totaling more than 15 million records. Content is automatically updated as the corresponding databases are. This system's catalog has been optimized by reducing duplicate entries and providing more comprehensive information. To increase the convenience of the vast information available through searches, the system provides searching, browsing, and filtering capabilities, including various search options: simple search, advanced search, command search, index browsing, keyword browsing with graphic display and extended searching. The system also provides multifaceted analysis of search results to enable users to quickly sort through data, links bibliographic records with corresponding systems, uses hierarchical clustering to display real-time analysis of related bibliographic records, links from bibliographic records to related authority records, provides various encodings (Unicode, CCCII, and Big5) for export and many export format options as well (Chinese MARC, MARC21, Excel, XML, EndNote, RefWorks, and pure text).



Taiwan Citation Index - Humanities and Social Sciences

<http://tci.ncl.edu.tw/>

This database contains academic journals in Chinese on humanities and social science fields published in Taiwan, Hong Kong and Macau from 2000 onward. Theses, dissertations, and books from Taiwan are systematically being added. It also boasts data analysis on sources and citations in the works. It was put online in September 2013 and currently has over 1,000 journal titles, 12,000 dissertations, and 3 million citations in over 18 disciplines. The system's functionality includes source search, citation search, browse, and statistics. Usage data references international biometric indicators to provide data on number of citations, influence coefficient, citing and cited half-life, etc. It also integrates long-term citation indexes for scholarly communities to show long-term development trends in academia.



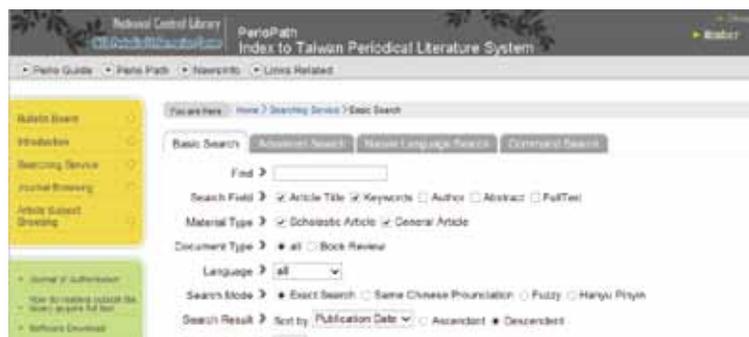
2. Full-text Images

PerioPath: Index to Taiwan Periodical Literature System

<http://readopac.ncl.edu.tw/nclJournal/>

The system contains some 5,000 Chinese and English academic journals from the 1970s onward published in Taiwan, and some from Hong Kong and Macau. In all, it has over 2.5 million entries. Search functionality includes simple and advanced searches, natural language searches and command searches. Search results include basic bibliographic information as well as the full text (if authorized), library

holdings, extended searches and related terms, search result analysis, exporting bibliographic data. The detailed results add how many times it has been cited in dissertations or theses, and related articles. The system also provides information on popular journals and RSS subscriptions to find additional related information. It also provides personalized services, customizable search model, a list of commonly used holdings, and SDI services.



Theses and Dissertations in Taiwan

<http://ndltd.ncl.edu.tw/>

Since 1994, the NCL has been compiling the abstracts of graduate and doctoral theses and dissertations published in Taiwan into a searchable database for readers. In March 2000, the library made this resource available for online searching and download (publications with copyright authorization only) through the Electronic Theses and Dissertations System. In June 2010, the system was renovated and renamed National Digital Library of Theses and Dissertations in Taiwan, and on October 25 NCL formally joined the Networked Digital Library of Theses and Dissertations (NDLTD). To date it contains more than 819,000 abstracts from dissertations and theses. Digital full-text versions number 287,000, with 16,263 dissertations having full-text images. Dissertations and theses that have been granted access rights can be directly downloaded from the site. Moreover, users can search the system to find information on dissertations and theses from other NDLTD members. Currently, 100,000 users on average access the system each day, making it the most used academic research database.



National Central Library Gazette Online

<http://gaz.ncl.edu.tw/>

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Government gazettes are a collection of important national decrees and regulations. They are invaluable in compiling histories and listing enacted laws, fiscal measures, personnel changes, meeting minutes, etc. They also provide important information to the public in participating in formulating public policy and overseeing government action. The Library collects early government gazettes that have a high degree of historical value, as well as a rather complete collection of central and local government gazettes from 1949 onward. The Library began in January 1984 to develop an online search database. In 1994, the Library began digitizing full texts, and in 2008 it began extending its collection to include over 60 central and local government gazettes dating back to the first year of the Republic. These were included in the new Government Gazettes database. As of December 2013, the system has a total of



4,352,137 images, 1,102,660 metadata records, and 354,993 electronic full-text documents. More is continuously being added. This website, with its simple and advanced search capabilities, title browsing, and full-text files, allows users to effectively know what new government laws, decrees, and policies have been enacted. This helps with the publicizing and circulation of government information.

Taiwan Memory

<http://memory.ncl.edu.tw/>

Taiwan Memory brings together a wealth of information on Taiwanese history, including records and documents since the Japanese occupation period, local gazettes, engraving rubbings, old contracts, genealogies, postcards, historic photographs, information on historic figures, and digital versions of TTV newscasts. Information is presented in text, sound and images and video, with detailed introductions. All resources are in digital form and arranged into the five major categories of "Books and Literature," "Photos," "Historic Documents," "People & Events," and "Visual Exhibition." As of December 2013, the system contains 141,567 entries of metadata and 2,671,895 full-text images.



Taiwan Local Documents Image Database

<http://localdap.ncl.edu.tw/>

Local documents are records from specific places, and while preserving local culture, they are testimony to the development of the area. The National Central Library has a large selection of local

documents that are valuable in preserving local histories, increasing understanding of local communities, providing educational materials, coalescing local ideas, etc. To better preserve these documents and provide remote access to them, NCL began the creation of the Image Database of Local Documents from the Taiwan Region in 2002 to digitize local documents. In 2007, search capabilities were upgraded, and the name was changed to Taiwan Local Documents Image Database. As of December 2013, the database has collected 5,523 volumes, 1,105,359 full-text images, and 5,523 metadata records. Materials collected include gazetteers and local government publications, as well as documents and images from other agencies, such as local cultural bureau libraries, archives, cultural centers, and local historians. The database is an important asset in researching various regions in Taiwan.



3. Ancient Works and Manuscripts

Ancient Books and Special Collection Resources

<http://rbook2.ncl.edu.tw/>

This system primarily integrates text images from following databases created by NCL: the Rare Books Image Search System, the Chinese Rare Book Catalog, Bronze and Stone Rubbings Database, Taiwan Family Genealogy Catalogue Database, as well as the CD version of Punctuated Prefaces and Postscripts of Chinese Rare Books. The creation of this new service platform enables users to browse and search the various offerings of NCL's digitized ancient books.



Contemporary Celebrities' Manuscripts

<http://manu.ncl.edu.tw/nclmanuscriptc/nclmanukm/>

The preservation of manuscripts is really the work of preserving cultural heritage. Thus the acquisition of modern celebrities' manuscripts is an important task that the Library takes on. Many of these manuscripts have been acquired in recent years, of various styles and forms. Genres represented include fiction, prose, plays, diaries, letters, and critical essays. In addition, many works of art have also been acquired, including oil paintings, water colors, sketches, pastels, comics, illustrations, and calligraphy. While the medium to create the art differs, regardless of the form they are a feast for the eyes. The Library has over 20,000 of such works. It uses information tools to create the Contemporary Celebrities' Manuscripts system, methodically scanning and putting online the Library's large collection of manuscripts. These images are available to the entire world for viewing and research, and achieve the highest aims in social education. In creating the system, emphasis was placed on displaying the images. Through various ways of searching, the images of texts and works of art can be clearly displayed online. In addition, the images can be enlarged to look at how the brush or pen was used or what colors were applied—thus leaving little distance between viewing the online image and the original. This is the first of its kind in Taiwan. Another important feature of this system is it integrates the Library's original Images of Historical Data on Contemporary Literature system, which has been in use for a long time and contains a plethora of data, including biographies

of authors, chronological lists of works, title catalog, and critiques on more than 2,000 famous authors in Taiwan dating back to the 1960s. Combined with the new system and the new images available, there is now an even greater variety of information available.



4. Audio-visual Materials

Digital Audio Visual Archive System

<http://dava.ncl.edu.tw/>

NCL has many types of audio-video materials, and starting in 2002, the digitization of these materials began. In addition to digitizing its own audio-visual materials, NCL also worked with TV and radio stations to digitize and preserve historically significant audio-visual materials. Some of the most noteworthy include daily news from Taiwan Television Enterprise (TTV) from 1962 to 2011, as well as recordings of important political and economic figures from the 1910s to the 1980s (such as Dr. Sun Yat-sen, Chiang Kai-shek and other presidents). There are also recordings of interviews of foreign dignitaries, speeches of prominent people in society, and radio dramas. As of December 2012, NCL's Digital Audio Visual Archive System had already over 458,000 metadata



records, and over 500,000 streaming files. The files are accessible either onsite in NCL or over the Internet, depending on the access rights granted. In order to make it easy to browse, the systems' website lists 14 different topics, with 115 sub-categories; it also provides a search function. Beginning in 2013, a mobile version (<http://mdava.ncl.edu.tw>) and an app to play the audio-visual files with were made available.

NCL E-Learning Campus

<http://cu.ncl.edu.tw/>

To cultivate the professional skills of members of the national library and information industry, as well as to put into praxis the idea of life-long e-learning, the Library created an E-learning Campus in December 2000. This site actively promotes distance learning by providing librarians and the public a way to engage in self-directed learning. The system allows users to get online and take free e-learning courses at their convenience. Many scholars were invited to participate in the creation of various online courses. Moreover, NCL sought out access rights to library and information conferences and workshops. Since first going online, there have been more than 500 courses offered, divided up into the following eight categories: library and information science, library use, lectures on Chinese studies, international knowledge exchange, popular science lectures, applied IT, management, and certifications. Apart from courses geared toward librarians, there are also general education courses for civil servants, meaning that potential users include librarians, professors and students of library science, library science organization, civil servants, and the general public.

The screenshot shows the homepage of the NCL E-Learning Campus. At the top, there is a navigation bar with links for 'Q&A', 'Site Map', 'E-mail', and 'Home'. Below this is a banner area with the text 'Welcome to the National Central Library(NCL) e-learning for librarians.' and a navigation menu with 'About Us', 'New Courses', 'Download', 'Search', and 'Links'. On the left, there is a 'LEARNER LOGIN' section with fields for 'Username' and 'Password', and buttons for 'New User', 'Login', and 'Help'. The main content area features a welcome message: 'Everyone is welcome to attend the online courses of the National Central Library(NCL) E-Learning Campus. Nearly all of the courses are offered free of charge.' Below this, it states 'There are over 400 online courses grouped into three major categories:' and lists three categories: 'Library Professional Training Series: Cataloging & Classification, County Library Management, Library Automation, Reader Service, School Library Management, and Global Village.', 'IT Applications Series: XML, Theory & Practice, Information Security, FrontPage 2003, Apache Server Installation, and e-Learning', and 'Course Catalog' which includes 'Library Professional Training', 'Library & Information Use', 'Global Chinese Studies', and 'Information Techno'.

5. Other

Single Portal Entry to “iNCL Personalized Portal” Services

<http://incl.ncl.edu.tw/>

This system uses a single entry portal and integrates it with personalized web services. In fact, it was built around the concept of personalization, with integration and diversity as its primary aims. This development on web systems and personalized user interfaces allows users to create a page based on their interests and attributes. All users need to do is go to the website (<http://www.ncl.edu.tw/>), then access the Member Area to apply for an account. This account can be used to log into any of NCL’s databases. There is no need for any other accounts or password to access other systems. What’s more, the log-in page can be styled based on user preferences. Through RSS feeds, users can keep up-to-date with new developments at the Library, or user’s can get updates in email form in their inbox.



Electronic Databases

<http://esource.ncl.edu.tw/>

Digital Databases brings together NCL’s e-resources and has been online since June 2013. It works in conjunction with iNCL, the Library’s single portal log-in, and boasts new search and personalization



Web Archive Taiwan

<http://webarchive.ncl.edu.tw/>

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The Library is dedicated to preserving resources and assisting with academic research. To that end, it has created Web Archive Taiwan (WAT). This system makes scheduled archives of specified websites, which are stored on NCL's servers as time-stamped individual versions. It boasts a comprehensive model for long-term preservation, as well as providing users with search capabilities and other means of application. Full-text searches can be conducted on the content of websites or web pages. In addition, it provides advanced precise, fuzzy, and synonym search capabilities. Items can also be browsed by topic to provide users another way to locate the archives they desire.





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