NTU Library Services
During the COVID-19 Pandemic
-- thinking in different ways

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National Taiwan University Library
Department of Library & Information Science
2021-03-16
Introduction to NTU Library
Overview of National Taiwan University Library
Brief History

- National Taiwan University was originally established as the Taihoku Imperial University in 1928 by the Japanese colonial government. The library was built in the same year.
- The old library building is the Gallery of NTU History now.
Brief History

- The new library building was opened in Nov. 1998.
- More than 30 departmental libraries have been integrated and a comprehensive library service launched from then on.
Main Library and Branches

Main Library

Koo Chen-Fu Memorial Library

Departmental Libraries:
- Mathematics
- Physics
- Chemistry
- Oceanography
- Library & Information Science
- Law

Medical Library
Librarians and Staffs

- Librarians .................. 118
- Janitors ..................... 11
- Part-time staffs
- Volunteers
- Security officer (Subcontractor)
- Cleaners (Subcontractor)
Library Users

- Full-time Faculty: 2,063
- Part-time Faculty: 2,116
- Students: 31,783
- Staffs
- Alumni
- Walk-in users (over 18 years old)
Bird's View of Main Library
Koo Chen-Fu Memorial Library

The Social Science Library was built with the donation of the Koo Family and designed by renowned Japanese architect, Toyo Ito.
Library Collections

- Books: 4,268,106 volumes
- E-Books: 3,390,212 volumes
- Current Journals: 6,361 titles
- E-journals: 66,374 titles
- Databases: 598 titles
- Multimedia: 185,462 volumes
- Special Collections: > 250,000 volumes/pieces

rare books, stitch-bound books, manuscripts & archives, vinyl records, and so on.

Totally, 8,200,000 around
COVID-19 Pandemic in Taiwan
Daily Confirmed COVID-19 Cases and Deaths - Taiwan

The confirmed counts shown here are lower than the total counts. The main reason for this is limited testing and challenges in the attribution of the cause of death.

Taiwan
Confirmed cases: 990
Recovered cases: 951
Death cases: 10

Globe
Confirmed cases: 120M
Recovered cases: 68.1M
Death cases: 2.66M
Cumulative Confirmed COVID-19 Deaths and Cases - Taiwan

The confirmed counts shown here are lower than the total counts. The main reason for this is limited testing and challenges in the attribution of the cause of death.

TAIWAN
Confirmed cases: 990
Recovered cases: 951
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GLOBE
Confirmed cases: 120M
Recovered cases: 68.1M
Death cases: 2.66M
読者サービス

注1: 門禁入館人次 + 自習室使用人次 + 討論區使用人次
注2: 校外人士門禁入館人次
注3: 2020年國外外來複印申請件數明顯增加

2021-03-16
Entry Control

Low-cost solution:
NTU Epidemic Prevention No. 1 (臺大防疫1號)
Trigger Infrared Forehead Thermometer to detect temperature automatically

Thermal imager
Increase Digital Services

• Both librarians and patrons worry about potential threats
• Consider on-schedule workshops or training courses are held on-line
  • Webex, Meet, Teams, Skype, Zoom, U
• Initiate subject services channel
• Make panorama videos for various exhibitions.
Panorama Video for Inō Kanori

伊能嘉矩
重返田野
特展
One-Minute Power Up

• Initiate video channel @ YouTube for subject services
  • https://www.youtube.com/playlist?list=PLXmnWYh40hi0_pYQs-5DKiDUzR42gK_eD

• 35 videos
Speed-up Digitization Practices

https://speccoll.lib.ntu.edu.tw/
Context Discovery System for LiDaBaoAn (歷代寶案, Rekidai Hōan)

Collaborate with Research Center for Digital Humanities, NTU

The Rekidai Hōan is an official compilation of diplomatic documents of the royal government of the Ryukyu Kingdom.
DanXin Archives System for Hakka Studies

Collaborate with Research Center for Digital Humanities, NTU.

DanXin Archives is the official administrative and judiciary files of Tamsui and Hsinchu area during the Qing Dynasty from 1776 to 1895.
The Graduate Institute of Musicology at National Taiwan University collaborated with NTU Library and Transmission Books & Microinfo Co. create the Taiwan Nichinichi Shinpō Sound Culture Database and allow researchers to study history of music from the perspectives of sound.
Taiwan Nichinichi Shinpo

Sound Culture Database

The musical life in Taiwan under Japanese rule went through significant changes due to the influx of Western and Japanese music as well as modern sound technology such as gramophone records and radio broadcasts. However, past research on the history of music in colonial Taiwan tended to over rely on oral history due to insufficient attention and access to written sources. Meanwhile, past research on Taiwanese history has long overlooked sound, and yet studying history from the perspectives of sound and auditory culture has been the trend in international academia in the past two decades.

In view of the above, the project team at the National Taiwan University (NTU) has collaborated with NTU Library and Transcontinental Books & Mireinfo Co. (TAMCO) to create the Taiwan Nichinichi Shinpo Sound Culture Database. The focus on Taiwanese shinpo is because it was the longest-standing and largest newspaper in colonial Taiwan, and thus provides rich data for studying the daily musical life and sound culture.

The database covers the period from the year 1909 (the year the shinpo was launched) to March 31, 1944, after which date it merged with other newspapers as the Taiwan shinpo (Taiwan News). The total number of the database's entries is 557,200, with more than 20 million characters of metadata. It includes any articles that include musical sound, including performing arts (such as dance, opera, drama), mass media (such as records, radio broadcasts, and films), activities (such as ceremonies, rituals, temple festivals, parades), etc. The content of the database is mainly focused on Taiwan and Japan, but it also covers China, Korea, Southeast Asia, and other parts of the world.
Reinforce New Services
-- Research Support Services
Research Support

- Increasing the depth and breadth of services
  Catering to scholars’ needs at each stage of the research life cycle, in order to deepen library services.

- The base of existing services
  Including research space, collection acquisition, interlibrary loan & document delivery, information literacy instruction, institutional repository, etc.
1 division head, 3 staff
52 hours per month at circulation desk

Support Faculty Research
- Domain Network Analysis service (known as DNA Service)

Support Academic Policy Making
- Institutional research impact analysis
- Disciplinary competitiveness analysis

Carry out Library Practice Research
- Library related data analysis
- Library practice research case study
Core Spirit

Support academic research and development of teachers and institutions

- **01. DNA Service**
  - Support administrative management decisions in the library and school
  - Reuse data and participate in scholarly communication

- **02. Research Impact**
  - Enhance library value and impact

- **03. Library Practice Research**

- **04. NTU Scholars**
Combining social network and citation analysis, the "Domain Network Analysis Service" was officially launched in November 2018 to assist teachers or departments in analyzing the current development of the research field with visual graphics.
Procedures for Research Support

01. DNA Service

Teachers, departments and institutes apply service
Librarians collect & analyze data
Librarians submit report

Online application site: https://www.lib.ntu.edu.tw/events/2019_dna/
Service Statistics

Growth of cases from 2018-2020

- As of July 23, 2020, there are a total of 63 service applications.

Contains different subject fields

- College of Life Sciences and College of Bio-Resources & Agriculture together accounted for 35%.
- College of Medicine and the College of Public Health together accounted for 18%.
- College of Science accounted for 17%.
- College of Social Sciences accounted for 11%.
Example 1


Note: Hsu, C.-C is Professor Hsu Cheng-Chih (徐丞志), Department of Chemistry, National Taiwan University
Example 2

- The application case of Professor Liu Helen K. (劉康慧) from the Department of Political Science.
- Perform a domain analysis of AI and Crowdsourcing in public administration.
- The library was invited to collaborate on research and co-authored a paper. The paper was accepted at "DGO.2020: The 21st Annual International Conference on Digital Government Research" and is planning to submit journals.
Overview

Combining bibliometrics and domain analysis, the first Research Competitiveness Report was prepared in April 2020.

• Assist institutional self evaluation
  – Self-evaluation of the departments and institutes are conducted every 5 years at NTU.
  – Proactive service. Cooperate with the departments and institutes to facilitate the preparation of self-evaluation report

• Content of report
  – Topics include department and domain analyses, Research Performance, benchmarking evaluation, etc.
Research Structure Report for Department of Geosciences
二、關鍵字共現網絡分析

(一) 本校地質科學系論文關鍵字

以社會網絡分析方法為本校地質科學系論文進行關鍵字分群，藉以進一步觀察
近5年論文所反映的論文主題。分群原則為兩位關鍵字出現於同一篇論文
中，則歸結成此兩個關鍵字主題相近；若共同出現於多篇論文，則主題越相
近。主題相近的關鍵字即會被分於同一群組。

本校地質科學系2015-2019年發表702篇論文，共有301個關鍵字出現於
2篇論文以上，共被分成12個子領域。如圖2-2，每一種顏色代表一個子領域，

(二) 重疊研究領域高被引論文關鍵字共現網絡分析

利用本校地質科學系教授於近5年發表論文資料後定Web of Science領域
“Geosciences Multidisciplinary”、“Geochemistry Geophysics”與“Geography
Physical”等3領域為重疊研究領域，詳情參見本書第7頁。利用重疊研究領域
進一步篩選高被引論文共計2,999篇。分析其中的關鍵字共現網絡，有262個
關鍵字至少出現於5篇論文中，共分成11個子領域如圖2-3。
Overview

Use various system platforms, business, and service data by data analysis methods to extract insights for service promotion or business planning of other divisions of the library.

• **ASRS Service Center**
  - The first Automated Storage and Retrieval System (ASRS) of Taiwan.
  - Officially opened on 2018/10/30.
  - As of the end of March 2020, a total of 584,730 books have been stored, with a total of 24,759 visits and 8,305 applications.

• **November 2019**
  - Data form Alma and ASRS.
  - Using “New Classification Scheme for Chinese Libraries” (中文圖書分類法), analyzed the number of books in the collection, the cumulative number of borrowings, and the number of borrowings after migrated to Alma.
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Overview 1

In August 2018, integrated two platforms: **NTU Repository** and **Academic Hub**, providing a single-site maintenance and permanent repository services.

- **Author-oriented**
  - Demonstrate the research outputs of scholars

- **Document-oriented**
  - Preserve research outputs and dataset

**DSpace-CRIS**
Flexible architecture management

**Multiple sources**
Multiple metrics

**International standard API**
Resource interface sharing

**NTU Scholars**

**NTU Repository**

**Academic Hub**

**NTU1**

國立臺灣大學圖書館
National Taiwan University Library

**NTU SCHOLARS**
Overview 2
# Multiple Metrics

## Kuo, Y.-W.

**Title:** MicroR08 regulates defense response upon wounding in sweet potato

**Authors:** Kuo, Y.-W.; Lin, J.-S.; Li, Y.-C.; Jhu, M.-Y.; King, Y.-C.; Jeng, S.-T.

**Publication Date:** 2019

**Volume:** 70

**Issue:** 2

**Pages:** 469-483

**Source:** Journal of experimental botany

**DOI:** 10.1093/jxb/ery381

**Scopus™ Citations:**
- **Total:** 1
- **Checked on:** 2020/4/12

**Web of Science™ Citations:**
- **Total:** 1
- **Checked on:** 2020/3/13

**Page views:**
- **Total:** 4
- **Checked on:** 2020/4/13

**Downloads:**
- **Total:** 3
- **Checked on:** 2020/4/13

**Google Scholar™ Citations:**
- **Total:** 1

**Altmetrics:**
- **Total:** 1
### Data Management

Research output lists
- Full-text
- Dataset
- Metrics

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**Page view(s)**

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**File size**: 372.31 MB

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**File name**: Tsai and Chang 2019 3D data - Pleistocene right whale.obj
Effectiveness of Research Services

**Improve service quality**
- Deepen subject service
- Data driven management

**Support teacher research**
- Explore research directions
- Identify potential collaborators
- Select journals for submission

**Support agency decision**
- Support administrative management decision
- Enhance library impact and visibility
Future Direction

1. Besides journal documents, add patents, conference papers, etc.

2. Besides WoS and Scopus, adding domestic citation databases as data sources

3. Incorporating Altmetrics to supplement traditional indicators

4. Besides VOSViewer, CiteSpace, and Gephi, adding other analysis methods and tools.

5. In cooperation with administrative units such as Department, Office of R&D and International Affairs, etc.

NTU Scholars provides storage for varies types of data, which serves as the linchpin for scholarly data management, further development and innovation of the functions are in the pipeline.