Research and Development in National Science Library

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National Science Library, Chinese Academy of Science

Nov.4, 2011
Outline

- Background Information
- Research and Development
Welcome to my library!

National Science Library, Chinese Academy of Science

Main Library in Beijing
1. Background Information

- National Science Library, Chinese Academy of Science

- total 470 staffs
  - serves more than 30,000 researchers and 40,000 graduate students of CAS in about 100 research institutes in more than 30 cities in China
  - about 90 of them work for information analysis services
    - monitor scientific research activities
    - identify the research trends
    - detect the progress of the research areas
    - support decision maker to develop research policy for China
Digital Services Model

- What?
- federated search

- Where?
- Key Resource

- How?
- DDS

Question?

7*12 real-time online reference

print or digital
Major Services

- **Resource Development**
  - key scholarly e-journals, proceedings, monographs and reference sources

- **Subject Librarian Service**
  - Each subject librarian is assigned 2 or 3 CAS institutes
  - provide 9am-9pm, 7 days a week real-time online reference to all the CAS users

- **Information Analysis Service**
  - support R&D planning and decision/policy-making for advanced research at CAS headquarters, major subject clusters, and other governmental agencies
Major Services

- Digital Library Development
  - federated search, integrated browsing (for journals print or digital, in-house or third DDS-able parties), union catalogs, online reference, document delivery, online training, and secured authorization service that allows users to use resources from anywhere
  - ontology-based search and exploration
  - mash-up of e-science resources
  - systems and tools are built to provide a user-driven, context-sensitive, and seamless use environment (e-click tool, mash-up engine)
A visual search that can be “played”
E-click Tool
Southwest Biodiversity Knowledge Environment
Studies on the anti-inflammatory activity of rhizomes of Nelumbo nucifera

Hepatoprotective and free radical scavenging effects of Nelumbo nucifera

A two-way gas transport system in Nelumbo nucifera

Antioxidative capacity of rhizome extract and rhizome knot extract of edible lotus (Nelumbo nucifera)

Antioxidative enzymes in seedlings of Nelumbo nucifera germinated under water

Knudsen-transitional flow and gas pressurization in leaves of Nelumbo
Major Services

- Information Commons
- Document Delivery and Inter-library Loan
- Promotion of Science
- Academic & Publications
- Education & Training
Outline

- Background Information
- Research and Development
情报监测数据平台服务团队

团队成员5人，由具有情报学、计算机科学、电子通信学、测绘学、化学信息学等学科背景的博士和硕士组成。
"Scientific structure and evolution (SciMap Tool) ", based on Co-citation. To provide an objective reference in scientific activities.

The tool has been applied in multiple intelligence research projects in our library and institute, such as the agricultural modern science trend research by our institute's agricultural science research team, and the technology policy knowledge graph research by the Institute of Science and Technology Policy of the Chinese Academy of Sciences.

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“Patent online analysis platform” (China, U.S., Japan, Britain, Germany, France, Switzerland and the European and World Intellectual Property Organization) patents online searching and analysis. Server side.

Jan, 2009 online, till July 2011, 127 institute, 1300 users.
Information portal for (InfoStrategy) decision/policy-making.
From 2006, 21 collection, over 10,000 items.
“Profiling the S&T policy of the institutes (STMonitor)”

Monitoring the changes of science policy by continuously harvesting science & innovation policy information.

Turning the free texts into time-stamped objects to support object-based computing.

Building large scale knowledgebase based on time-stamped objects to achieve semantic mining of related topics.

Profiling the status of science policies using visualization technologies.

Experiment easy, Practical hard, Lots of works need to be done.
Thank You for Your Attention!

谢谢！

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