## Mobile，Service，Interaction

－－－－－浙江大学移动图书馆构建与服务探析 －－an analysis of the construction and service of the M－Library in Zhejiang University

## 陈海英 Haiying Chen

浙江大学图书与信息中心
Library \＆Information Center，Zhejiang University

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\text { 2014年5月29日 } \\
\text { May 29, } 2014
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# 大学数字图书馆国际合作计划 （China Academic Digital Associative Library简称CADAL） 

－http：／／www．cadal．cn


## Key Partners of CADAL

* China: 69 Universities
- Zhejiang University
- China Academy of Art
- The Central Academy of Fine Arts
- Tsinghua University
- Peiking University
- Jiling University
- Fudan University
- Hongkong University
- National Science Library, Chinese Academy of Science
$\square$ India:
- Indian Academy of Sciences
- Education and Research Network
$\square$ USA:
- Carnegie Mellon University
- University of Illinois at UrbanaChampaign
- Harvard Yenching Library
- Columbia University
- Stanford East Asia University
$\square$ England:
- Oxford University Press
$\square$ Canada:
- University of Alberta
$\square$ Thailand:
- Chulalongkorn University
$\square$ Egypt:
- Library of Alexandria
$\square$ Sweden:
- Royal Institute offechology
$\square$ Germany:
Heidelberg Uni ersuy


## Statistics of visiting CADAL from regions in China

| Peking | 326 | Henan | 73 | Xinjiang | 18 |
| :--- | ---: | :--- | ---: | :--- | ---: |
| Shanghai | 203 | Zhejiang | 71 | Shanxi ${ }^{*} 1$ | 17 |
| Fujian | 109 | Liaoning | 51 | Guangxi | 15 |
| Jiangsu | 109 | Anhui | 38 | Yunnan | 15 |
| Jilin | 101 | Jiangxi | 36 | Guizhou | 15 |
| Hubei | 100 | Hunan | 33 | Hong Kong | 12 |
| Guangdong | 96 | Hebei | 33 | Hainan | 9 |
| Shanxi *3 | 92 | Chongqing | 24 | Qinghai | 7 |
| Sichuan | 92 | Tianjin | 24 | Ningxia | 2 |
| Taiwan | 79 | Gansu | 20 | Macao | 2 |
| Shandong | 77 | Heilongjiang |  | 1 |  |

## Statistics of visiting CADAL from foreign institution

| USA | 177 | Austria | 5 | New Zeal and | 2 |
| :--- | ---: | :--- | ---: | :--- | :--- |
| Japan | 63 | Belgium | 4 | Iran | 2 |
| Britain | 42 | Netherlands | 4 | Saudi Arabia | 1 |
| Germany | 39 | Thailand | 4 | Denmark | 1 |
| Canada | 26 | South Africa | 4 | Finland | 1 |
| Korea | 24 | Turkey | 3 | Puerto Rico | 1 |
| Australia | 17 | India | 3 | Norway | 1 |
| France | 12 | Russia | 3 | Jordan | 1 |
| Mongolia | 10 | Brazil | 3 | Portugal | 1 |
| Singapore | 8 | Malaysia | 2 | Ukraine | 1 |
| Switzerland | 7 | Greece | 2 | Poland | 1 |
| Spain | 7 | Mexico | 2 | Philippines | 1 |
| Sweden | 7 | Czech Republic | 2 | Algeria | 1 |
| Italy | 6 | Ireland | 2 | Latvia | 1 |

浙江省高校数字图书馆（Zhejiang Academic Digital Library，简称 ZADL）
－http：／／zadl．zj．edu．cn／wps／portal／z



## 2013年云服务文献服务统计 2003 Cloud Service：Document Delivery Statistics

－2013年共接收到文献传递申请798862篇，成功回复790874篇，成功回复率99．0\％ In 2003，we receive 798，862 applications for document delivery service，and successfully provide 790,874 documents（ $99.0 \%$ meet the requirement）

Chart Title


# 移动图书馆 Mobile Library 



基础环境

## Infrastructure



## 基础环境－无线网搭建 Infrastructure－Wireless Networks

－2011年至2012年下半年，校园无线网工程建设，共使用光缆165公里，设立光交节点 24 个等，高峰期并发在线终端数 13000 多台。
$\diamond$
From 2011 to the later half of 2012， 165 km optical fiber line is paved for the campus wireless networks with 24 nodes \＆13，000


## 基础环境－校园无线网布局 Distribution of Campus Wireless Networks



## 基础环境一平板电脑配置

## Infrastructure－Tablet Computer Installation

配置平板电脑 23 台，电子阅读器 17 台With 23 Tablet Computers and 17 Electronic Reading Machines


## 基础环境—移动终端 Mobile Workstations

－用户调查：多数用户手机为安卓和苹果系统 User Survey： Most mobile phone users are clients of Android and Apple


基础环境－资源覆盖
Resource Coverage

- 馆藏资源 Library Collection
- 自建资源 Self－developed
- 购买资源 Subscribed
－云共享获取资源 Cloud Sharing
- 购买资源 Subscribed
－云共享获取资源 Cloud Sharing




## 移动图书馆 <br> Mobile Library



## 目标定位

## Our



## 目标定位一基于用户定位 Our Objective：Our Users

－休闲阅读者：提供epub格式图书，报纸，视频，音频 Leisure reader： provide epub format books， newspapers，web videos，web audios
－学术搜索者：一站式海量中外文学术资源集成移动检索 Academic searcher：one stop mobile search for aggregation of huge scholarly resources in Chinese and foreign languages
－个性需求者：通过身份认证的资源定位移动检索并获取全文及个性化定制 Customization seeker：authentication is required for users to search and access to full－text，and set customized alerts for their enquiries．

# 目标定位一基于功能定位 <br> Our Objective：集成Based on Functions 

实现OPAC系统

馆國文献和 CADAL项目建设资源的移动检索

实现电子资源的
一站式移动检索与全文阅读

实现数䛯库移动检索与全文阅读实现移动环境下的个一性化服务

实现ZADL联盟资源联合移动裣索与文献传递服条

# 目标定位一基于功能定位 Our Objective：Aggregation Based on Functions 




# 移动图书馆 Mobile Library 



# 应用服务一服务模式 Application Service：Service Modes 



# 应用服务一整合数据 Application Service：Data Integration 

－CADAL资源揭示
通过OPEN API 将CADAL元数据与OPAC书目系统对接，实现了CADAL资源移动揭示和全文服务。 CADAL Resource Discovery
Through OPEN API to coalesce the master data of CADAL and OPAC bibliographic system，we provide CADAL resource discovery and full－text view service．



# 应用服务一求是学术搜索 Application Service：Academic Searches 




## 应用服务一超星中文搜索

## ChaoXing Chinese E－Book Database Search




# 应用服务—数据库导航 Application Service：Database Finders 


＂统一检索＂不是万能的，通用性的方便降低了检索的专业性．
One stop search for congregated databases is not perfect．It builds the convenience into this easy search at the price of professional search dedicated to disciplinary databases．
。＂统一检索＂没有专业数据库的强大及专业的检索功能。
One stop easy search is devoid of the power and search function dedicated to certain professional／disciplinary databases．

| 中国联通回 |  |  |
| :---: | :---: | :---: |
| 首页 | 数据库导 |  |
| 字母导航 | 学科导航 | 分类导䚣 Q |





# 阅读／视听 <br> Reading／Audiovisual 

| 中国联通回 |  |  |
| :---: | :---: | :---: |
| （v）倳江大索｜图予馆 |  |  |
| 馆藏查询 |  |  |
| 求是学术搜索 |  | $\begin{aligned} & ? ~ \text { 预约 } \\ & \text { ions } \end{aligned}$ |
| 超星中文搜索 |  |  |
| 阅读／视听 |  | $\Omega$ |


| 中国联通畇 |  |
| :--- | :--- |
| 首页 | 阅读／视听 |



| 书籍 | $\square$ <br> 报纸 |
| :---: | :---: |
| 视频 | 音频 |

## 应用服务一用户功能使用调查 User Survey：Usage Based on Library Functions




## 移动图书馆



## 信息交互 <br> The Interaction



## 互动一信息共享空间 <br> The Interaction：Information Commons

信息共亨空间（Information Commons 简称IC）是提供给用户的一个创意性学习空间，是一种创新的学习模式，一个共享的交流社区，以最新的专业软件和性能优良的硬件设备为支撑，整合网络资源和智力资源，营造向外辐射创新能量的学习中心。
Information Commons（IC）is to provide users with a creative learning commons．It is an innovative learning mode and exchange venue to share．Equipped with novel professional software and qualified hardware facilities，IC integrates the Internet resources and intellectual resources to create a learning center with radiating innovation．



## Research Commons

Innovation Commons
System Commons (3) Information Commons


Knowledge Commons
Study Commons




## 信息交互一手机支付

## Transactions：make a Payment by Mobile Phone

手机支付：手机卡与校园卡合并，实现了校园卡的功能。可以刷手机认证，刷手机借还书，刷手机支付 Make a payment by mobile phone：in conjunction with campus smart card，mobile phone card can be used in I．D．authentication，borrowing and book returns， and make payments．



图书馆借还书系统，会议签到系统，多媒体教室管理系统，校园食堂，超市等管理系统。Library book borrow／ return system，room booking system，management systems for multi－purpose classroom campus canteen，supermarket．

## 手机支付 <br> Mobile Phone Payment

图书馆借书超期罚款，自助复印打印，档案馆学位照自助拍摄缴费，校园食堂，超市消费。Library book overdue fine，self－help photocopy，self－help degree certificate photography， campus canteen，supermarket．

## 信息交互一与移动校园对接 M－Library Coalesce with Mobile Campus





## 移动图书馆 Mobile Library



# 未来设想 

## The future



## The future




