Open Access Repositories in China: a Case Study on qiji.cn.

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What Is Qiji?

- Qiji means Miracle in Chinese. 1905 is the "miracle year" in scientific history, in which Einstein reshaped the foundation of physics. We use this name to emphasize that better communication between researchers will generate future scientific miracles.
- Qiji.cn is the first open access e-print archives in China. We launch the website (http://www.qiji.cn) on August 12, 2003.
- Qiji.cn is a nonprofit project to prompt self-archiving and open-access of scientific and educational resources in China. It is operated by volunteers in their spare time and supported mainly by donations.
- Qiji.cn is not an institutional archive. We have no affiliation now.
- Qiji.cn is an e-print archive for Chinese researchers, we accept papers written in Chinese. And we have Chinese web interface.

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Qiji.cn link to many OA projects
Why Chinese?

• Since there has already been arxiv.org, people don’t need another one, and we won’t deposit Chinese paper in arxiv.org
• Chinese language and characters are very special, compared with alphabetic language. Most Chinese are more accustomed to Chinese readings and writings. More people will understand the value of OA from qiji. Bring up to date science to public.
• China will have the world largest graduate education system. In 2004, 330,000 graduate students enrolled. They are required to write thesis in Chinese.
• In some disciplines, Chinese researchers mainly write research paper in Chinese. For example: History, Medicine, Economics and Management Science …

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Why not an institutional archive

- OA is a new idea for Chinese institutions. OA is open access not office automation.—Joke?
- All on-line paper repositories in China are toll access and profit driven. (CNKI, wanfangdata, cqvip)
- Current institutional archive are close, not open to public. For example: University on-line thesis archive.
- Hard to seek support from Institutions. No profit, No impact and need resources.
  - Practice is needed for people to understand open access. How it operates, and what’s the benefit.
  - Start from physics and mathematics, and then widen to more disciplines.

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How qiji works

• Qiji.cn is an automated distribution system, no peer-reviewed system.
• Core team, provides technological, financial, and editing support. Approve volunteer editors.
• Volunteer editors, mainly graduate students in respect fields, validate users’ submission. Add more subjects(categories).
• Users: submit papers, comment on other people’s paper. Suggest new subjects(categories).

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Our Team

• JI, Yanjiang, University of Science and Technology, Physics
• HONG, Li, Ascend Venture, Computer Sciences
• ZHANG, Keqin, National University of Singapore, Physics
• ZHANG, Li, Beijing University, Medical School, Orthopedics

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Volunteers

• Total: 20
• Some of them:
  -- YE Qing-Hua: Institute of Acoustics, CAS;
  -- LI Qing-Xu: Institute of Chemistry, CAS;
  -- YANG Shi-Ming: University of Electronic Science and Technology of China;
  -- YU Sheng-Wen: Shanghai University;
  -- TANG Xiao-Dong: Argonne National Laboratory, Physics Division;
  -- MAO Yi-Jun: No affiliation;
Typical users of qiji.cn

• Undergraduate students, need on-line learning material and courseware.
• Graduate students, they are new to research, need some reviews written in Chinese to guide their future study.
• Teachers, need lecture notes and courseware by other teacher.
• Researchers, share preprints and postprints.
• Any people who are interested in learning and study.

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Where they come from: HitMaps – world

The map shows individual visits, clustered within a given distance. The location of visit is based on the IP address of the computer used.

Asia: 90%  North America: 6.1%  Europe: 2.5%  Australia: 1.1%

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HitMaps - Asia

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Basic Functions

• Upload e-prints, modify and delete by users.
• Browse by categories, search by keywords.
• RSS feed for newest eprints by categories or by selected key words.
• On-line forum
• Weblog

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Basic Facts

- Qiji.cn server is located at China public network, access from China education network may be slow.
- Qiji.cn accepts preprints, postprints, lecture notes, e-books, thesis, scientific news, etc. It now has 10805 registered users, 224 categories and 2,338 additions. Up to now qiji.cn spent 3,000$ (software: 450$; server rack: 950$; IDC: 1600$).
- Qiji.cn has RSS, users can subscribe to certain key words.
- Traffic: 5,000 Ips, 4,000 full-text downloads, 30,000 Page Views per day.

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Additions by different disciplines

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Additions by different types

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Page view distribution: Zipf distribution (log-log plot), $\alpha = -0.99382$, $f = C/r^{\alpha}$

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Copyright Issue

• If not specified by user, we use creative commons: Attribution-NoDerivs-NonCommercial copyright.

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Copyright Issue (continue)

• Although not encouraged, users are allowed to submit other people’s work. This may cause copyright problems.

• Copyright holders can request deletion of addition by contacting the editor. (Pearson Education has requested us to delete some copyrighted e-books, such as: Feynman’s lectures in Physics.)
How we promote Qiji.cn

• We put an open letter on qiji.cn, and ask people to sign and forward to other people.
• Encourage people link to qiji.cn.
• Translate up-to-date scientific reports and news story to Chinese and put them on qiji.cn, such as news from APS focus, PLoS Biology.
• A forum for people to discuss open access and other scientific topics.

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Qiji open letter

- For researchers:
  -- ask them post their preprint/postprint at qiji or other public repositories;
  -- put a link to this openletter at their homepage;
- For publisher: allow author self-archiving at public repositories;
- For funding agencies: encourage researchers to put research result at public repositories;
http://www.qiji.cn/eprint/help/openletter.html
Major achievements

- Many people sign our open letter and send e-mails support us.
- Some library and research group linked to qiji.cn, such as: National Astronomical Observatories Library at CAS, SJTU Library; Prof. Ma Hongru from SJTU, Prof. Li Youquan from ZJU.
- High rank in google search results.
Maximal planar networks with large clustering coefficient and power-law degree distribution

http://www.qiji.cn/eprint/abs/1567.html

Maximal planar networks with large clustering coefficient and power-law degree distribution.

http://www.qiji.cn/eprint/abs/1552.html

Maximal planar networks with large clustering coefficient and power-law degree distribution.

http://arxiv.org/abs/cond-mat/0412448

Maximal planar networks with large clustering coefficient and power-law degree distribution.
复杂网络上的传播行为摘要

复杂网络上的传播行为研究摘要

复杂网络的研究概述
从统计物理学看复杂网络研究

作者：吴文群，刘文如

摘要/内容:
从统计物理学来看，网络是一个包含了大量个体及个体之间相互作用的系统。本文从统计物理学的角度整理与总结了复杂网络目前的主要研究结果，并对将来的研究工作做了一个展望。文章将网络分为三个层次——无向网络、有向网络与加权网络，对不同网络的静态几何量研究的现状分别做了综述，并结合网络机制模型设计与评价的需要，提出了新的有待研究的动态几何量，对网络机制模型做了总结与分析，提出了有待解决的关于网络复杂网络的机制模型问题。部分地概括了网络演化性质、网络的结构稳定性以及网络上的动力学模型的研究。然后，以我们目前正在进行的两个方面的工作——科学家网络和产品生产关系网络——为例，简略地介绍了网络研究在一些实际问题中的应用。最后，作为一个简单的补充和索引，我们整理了复杂网络研究中部分常用的解析与数值计算的方法。

关键词：网络，随机图，幂律，标度律，无标度网络

全文/附件：TXT网址 / 给资料打分 9.00 (2票) / 发表评论 / 阅读 2 评论

相关网址：http://www.sfu.ca/~jinshanw/
2003年 12月25日
XXX，中国矿业大学物理系
评论：很好！全力支持！

2003年 12月27日
XXX，Tsinghua University
评论：YOU HAVE DONE A BRILLIANT JOB WHICH IS ESPECIALLY BENEFICIAL TO POOR STUDENTS, AND I AM ONE OF THEM. THANK YOU VERY MUCH!

2003年 12月26日
XXX，广州华南理工大学机械工程学院
评论：很支持！

2003年 12月26日
XXX，北京大学微电子所
评论：能有这样一个交流平台真是太好了

2003年 12月25日
XXX，南京大学
评论：学术研究需要开放和自由环境

2003年 12月25日
XXX，河南雅源香精香料股份有限公司
评论：感谢“奇迹”给大家一个机会，为促进中国科学的发展所做的贡献。

2003年 12月23日
XXX，中国工程物理研究院
评论：非常支持
Problems: quality control

• Since qiji.cn do not have peer-reviewed system, it is hard to ensure the quality. We can smell the wrong easily, but need more time to prove it.

• If introduce peer-reviewed system, that will need more time and more money.

• Junk paper submitted by amateur.

• Even some postprints are junk papers.

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Problems: imprints and e-books

- Some people use qiji.cn as a free e-book service.
- How to restrict the copyrighted material, considering the book price, many users upload and download PDF e-books.
- Provide them the alternatives, lecture notes and courseware.
- Write emails to ask for permission, for example: Many-Body Physics notes by Chetan Nayak (UCLA), the author allow us to link not download.
Future qiji

• Ideally, Qiji will be a bridge, a bridge between researchers at same fields or different fields; a bridge between students and mentor; a bridge between amateur and professional; a bridge between public and science.
• Let more researchers know qiji.cn, and archive more eprints to it.
• Bandwidth, server upgrade, put more mirror servers in educational network.
• Open education, on-line courseware and on-line problem sets.
• Seek fund from University and NSF.
• Implementation: Open Archives Initiative Protocol.

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Cooperations

- OA experts: write OA FAQ in Chinese, translate related declarations documents into Chinese.
- University Library: Mirror site, now we gave a mirror at Lanzhou University
- Institutions: Help them setup self-archiving institutional repositories.
- Major portal in China: for example sina.com, make more people know OA, its value, and how it works.
Thanks!
JI Yanjiang,
jyj@sas.ustb.edu.cn
http://www.qiji.cn
open access now, miracle in future!