Rome, Domus Pacis – 12-14 October 2006

The Impact of Digital Library Service on Scientific Production of a Media Sized University: The University of Messina's Experience

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Agenda

- The CIBER context
- An overview on usage statistics production for CIBER’s users
- The new portal for usage statistics
- Users sample identification
- Network tools chosen to measure users’ productivity
- Analysis methodology
- Some preliminary results
- Final remarks
The CIBER context

- university library centre, funded by 5 Universities in Central and Southern Italy
- currently 27 universities are members, with about 25,000 professors, researchers and staff
- aims: digital content, classification, archiving, loading, preserving, promotion, and dissemination of scholarly publishing and training
- more than 5,5 millions of on-line scholarly articles from 4477 e-journals of 9 different publishers (80% full-text articles) => CIBER Digital Library

CASPUR
Usage statistics for CIBER DigLib

- Fully compliant with COUNTER\(^{(1)}\) specs (rel. 2) since May 2005 (data available since January 2005)

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- All stats data feed a local DB (MySQL based)

\(^{(1)}\) [http://www.projectcounter.org](http://www.projectcounter.org)
The new portal for usage statistics

- Interactive multi-user system
- Output schema (stats download included)
  - JR1 and JR2 Standard COUNTER reports
  - Top list reports (journals, issues, articles, subjects, IP)
- New elements of usage analysis:
  - Article cover date
  - Library of Congress Subject e-journals Categories
  - MIUR(1) Subject e-journals Categories
- The “free query” function
- Open source tools for portal development

(1) Italian Ministry of Universities and Scientific Research
The chosen approach

- Query: The relationship between:
  - total number of downloads
  - the time since publication

We analyzed the behavior of 920 users (mean value across 1990-2004) from Biology, Chemistry, Physics, Earth Science, Mathematics, Medicine, and Pharmacy Departments (main scientific area for University of Messina).

Materials Science and Engineering

- E-journals chosen for Article download analysis:
Scientific production

University of Messina scientific Production

ICOLC Fall 2006 – Rome, Domus Pacis – 12-14 October 2006

- CAS
- SCOPUS
- WoS

Univ. of Messina joined CIBER consortium

Introduction of Bibliographic Abstracts DB

Year

University of Messina scientific Production

 друзья

CAS

SCOPUS

WoS

ICOLC Fall 2006 – Rome, Domus Pacis – 12-14 October 2006

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Introduction of Bibliographic Abstracts DB

Year

University of Messina scientific Production

 друзья

CAS

SCOPUS

WoS
Articles download

Number of downloaded articles

Year

Value

2001
1214

2002
3415

2003
4231

2004
3813

2005
5691
Possible correlation?

- Given a specific year (2004) we tried to find a possible correlation between the number of downloaded articles and scientific production
- Focus on various scientific disciplines
- SCOPUS as tool to measure scientific production (better coverage of Italian scholarly journals)
- Used normalized data
The more you read the more you publish? (don't make it too simple...)

The RMS user:
- Published articles per user
- Downloaded articles per user
Final remarks

- Difficulty in getting out coherent information on scientific production
- Data analysis performed only on a specific subset of Messina scientific population
- Interest in enlarging user’s attitude to scientific production involving other CIBER universities
Thank you for your attention

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