From author to reader: challenges for the digital content chain
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PLEIADI
a portal solution
for scholarly literature

Paola Gargiulo*, Susanna Mornati**, Ugo Contino*, Zeno Tajoli**
* CASPUR, ** CILEA
Overview

• OA context and archives
• Italian archives
• PLEIADI Project
  • End users services
  • Service provider features
  • Bibliographic resources integration: OAI-PMH and Z39.50
• Future developments
OA context and OA archives (1)

- ICT developments offer solutions to improve access and circulation
- Restriction of access to journal literature
- Traditional publishing models crisis
- Dominant role of few and powerful commercial publishers
- Cost increase in journal subscriptions
OA context and OA archives (2)

• Role of some significant Open Access Initiatives
  – Budapest Open Access Initiative (BOAI)
  – Open Archives Initiative (OAI)
  – Berlin Declaration

• Implementation of OAI standard compliant open archives/digital repositories

• Institutional repositories or discipline based
OA initiatives: results (3)

- Growing number of operational digital repositories
- Increase of OA content
- Wider dissemination of research of scholarly content
- Higher impact of research results
  - vast benefits for authors and their institutions
  - promoting general research progress and contributing to the creation of new and unpredictable ways of communication and doing research
Italian OA archives

- Implementation of digital repositories is under way
- 8 academic operational institutional repositories + 20 ongoing projects dealing with repositories among universities and research centres
- not largely populated yet
- a few still contain more metadata than full text material
- some are currently devoted to a specific portion of academic output
Italian OA archives: Messina declaration

The Council of Rectors of Italian Universities (CRUI) sponsored a national event in Messina (4-5 November 2004) where over 30 Italian universities signed the Messina Declaration in support of the Berlin Declaration.

Later during the year other 45 Italian universities expressed their support of the Messina/Berlin Declaration and signed the Berlin Declaration.

Currently CRUI secretariat is collecting the signatures which will be sent to the Max Planck Society.
PLEIADI project

- PLEIADI - Portal for the Italian Electronic Literature in Open and Institutional Archives

- CILEA-CASPUR joint initiative within the framework of the AEPIC project

- PLEIADI aims at building a national platform, a centralized access to scholarly literature in Italian repositories

- Launched in November 2004 during the Messina event
PLEIADI platform

- two-level architecture
  - **front-end layer** (user area, information area, search&retrieval area, management area, log&statistics area)

- **back-end layer** (a series of back-end activities designed to discover, retrieve, access OA content from all Italian OA archives and to integrate OA content with bibliographic resources)
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Author

Service Provider

• Harvesting
• Classification
• Caching
• Indexing
• OPAC
• Metadata crosswalks
• Z39.50 for discovery services

Data Providers

document archiving

metadata feeding

Portal

• Common search interface
• Italian OA list
• OA – relevant info
• News feed
• Forum management
• User profile Alerting
• Developers’ test bed

Portals

added value services feeding
PLEIADI

User

Portal

Collective database

Data Providers

Service Provider

- Harvesting
- Classification
- Caching
- Harmonization/Indexing
- Metadata crosswalks
- Z39.50 for discovery services

searching

retrieving

gateway Z39.50

searching

feeding

harvesting
PLEIADI platform: the portal

- Federated search interface

- User-centered services
  - a community for open access: news, forum, rss aggregator
  - list of web resources
  - user profiling

- Log & statistics area (statistical information on search activities and access to documents in OA archives)
PLEIADI- Service Provider features

- Harvesting from Italian data providers via OAI-PMH protocol
- Caching
- Metadata harmonization/Indexing & Information Retrieval
- Server Z39.50
- Metadata crosswalks
- UTF-8 (mapping)
- Z39.50 bibliographic resources integration
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Bibliographic resources integration

• Exploiting the potential of the new OAI-PMH together with Z39.50

• Metadata crosswalks, combined with OAI-PMH harvesting and Z39.50 search, offer a possible solution for bibliographic resources integration

• Model to build centralized search facilities for several categories of information resources
Resources integration benefits

• Integrating OA content with library catalogues, secondary databases from commercial publishers
  – increased amount of quality information available to academic users

• Adopting the same resource discovery in use to disseminate traditional works

• Encouraging cross-institutional collaboration through metadata exchange will result in a wider dissemination of relevant scholarly content
PLEIADI
Future developments

• Citation Parsing
• Open URL
• Statistics
• Export facilities

• Search results history
• Search results saving/e-mailing
• Customized alert services
PLEIADI portal: technical tools

- XOOPS - open source CMS designed for web portal
- PHP language
- PHP modules
- MySQL as back-end database
- Web Gui for administration and management of most modules
- YAZ libraries (for the translation of http queries in Z39.50 standard)
- Apache web server
PLEIADI service providers: technical tools

- Celestial - harvesting and caching
- Crosswalks - mapping and harmonization of material types and subjects
- Cheshire2 - indexing, Z39.50 server for PLEIADI information retrieval
Have a look at it!

please visit and search

http://www.openarchives.it/pleiadi/
select the English version

thank you