Persistent Identifiers as E-Infrastructures for Research Information Management

Milano, 21/11/2014

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IDF Outreach Meeting
Overview

- Cineca
- RIM ecosystem
- RIM data: problems and solutions
- Ontologies, protocols, formats, identifiers
- IRIS: Cineca RIMS
- Use cases for identifiers in RIMS
- Conclusions
Cineca: the Consortium

- Founded in 1969
- Non-Profit
- 72 Members
- 1000 employees
- HPC
  - FERMI: 15° in TOP500
  - EURORA: 1° in GREEN500 (June 2013)
- 500 applications
  - All Italian Universities
- IS
  - Ministry of Higher Ed
- www.cineca.it
The ecosystem of Research Information Management

- RIMS (Research Information Management Systems) deal with metadata about research entities (resources, activities, output, outcomes)
- RIMS allow collection, management, preservation, discovery, awareness, visibility, reuse, measurement, citation, dissemination, impact …
- RIMS are linked ecosystems: they implement interoperability through open standards, open technologies, persistent IDs
RIM data: problems & solutions

• Problems:
  – Dispersion
  – Heterogeneous resources

• Solutions:
  – Integration of systems (webservices)
  – Interoperability standards (shared ontologies, agreed protocols and formats, unique and persistent identifiers for entities)
CERIF data model - ontology

- Ontology that models the research domain
  - Entities and attributes
  - Relations, semantics, time validity
  - Resources, activities, output
  - Outcomes, impact
  - Metrics
Protocols and metadata formats

- OAI-PMH
- JSON
- Linked Open Data
- ...
- Dublin Core
- MARC
- MODS
- METS
- ...

Linked Open Data Italia
www.linkedopendata.it

Dublin Core Metadata Initiative®
Making it easier to find information.
Unique and persistent identifiers

- Publications: DOIs, handles, ISBNs (mEDRA, CrossRef, CNRI)
- Data sets: DOIs, handles (Datacite)
- Projects: FundRef
- Researchers: ORCID
- ...
Cineca IRIS use cases: ORCID

Allow end-user interaction
Cineca IRIS use cases: ORCID auth
Cineca IRIS use cases: ORCID claim

ORCID

**euroCRIS DSpace-CRIS Repository**

**ABOUT:** The euroCRIS DSpace CRIS is the digital portal where outputs from all euroCRIS discussion and dissemination activities are stored and offered free access from. These include among others euroCRIS membership meetings, strategic seminars and CRIS Conferences, together with the outputs of the different euroCRIS Task Group activities.

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Cineca IRIS use cases: import by ID
Cineca IRIS use cases: import by ID

Fill in publication identifiers (DOI is preferable) and then press "Search". A list of all matching publications will be shown to you to select.

**SCOPUS ID:**

e.g. 2-s2.0-0000000117

**DOI (Digital Object Identifier):**

e.g. 10.1021/ac0354342

**PubMed ID:**

e.g. 20524090

**arXiv ID:**

e.g. arXiv:1302.1497

**ISBN:**

e.g. 88470005477
Cineca IRIS use cases: handle resolution

http://hdl.handle.net/2434/206042

https://air.unimi.it/handle/2434/206042
Cineca IRIS use cases: DOI resolution

https://air.unimi.it/handle/2434/241512

Digital Object Identifier (DOI): 10.3280/SL2014-135007

You are resolving DOI: 10.3280/SL2014-135007
This DOI name is assigned to the following object:

Maurizio Ambrosini

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Efficacy of short-term psychodynamic psychotherapy vs treatment as usual in patients with anxiety and depressive disorders

CINZIA BRESSI, EMANUELA PAOLA NOCITO, ERIKA ALESSANDRA MILANESI, SILVIA FRONZA, PAOLO DELLA VALENTE, LAURA CASTAGNA, MATTEO FORCELLA, MAURA BRUZZESE, LUCIA ROBERTA BARATTA, ELEONORA MINACAPelli, ELISABETTA DI PASQUALE, GIULIA ALESSANDRA CAPRA

Efficacia della psicoterapia psicodinamica breve vs trattamento psicoterapico routine in un campione di pazienti con disturbi d’ansia e dell’umore.

Dipartimento di Fisiopatologia Medico-Chirurgica e dei Trapianti, Università di Milano
U.O. di Psichiatria, Fondazione IRCCS Ca’ Granda Ospedale Maggiore F. Sforza, Università di Milano

RIASSUNTO. Scopo. Il presente studio si propone di valutare l’efficacia clinica della psicoterapia psicodinamica breve (STPP) psicoterapico routine (TAU) per i disturbi d’ansia e dell’umore. Metodi. Sono stati consecutivamente reclutati presso il...
# Cineca IRIS use cases: DOI resolution

![DOI resolution example](https://air.unimi.it/handle/2434/168502)

<table>
<thead>
<tr>
<th>Scheda breve</th>
<th>Scheda completa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Titolo:</strong></td>
<td>Vescovo e conte: la fortuna di un titolo nell'Italia centro-settentrionale (secoli 11.-15.)</td>
</tr>
<tr>
<td><strong>Autori interni:</strong></td>
<td>GAMBERINI, ANDREA (Primo)</td>
</tr>
</tbody>
</table>

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**Vescovo e conte. La fortuna di un titolo nell’Italia centro-settentrionale (secoli XI-XV)**
Società Editrice Il Mulino
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- [View complete set of metadata](http://www.medra.org/servlet/MREngine?hdl=10.1408/36235)

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- **ABOUT THE CONTENT**
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Conclusions

• A robust, persistent, discoverable, reusable record in a Research Information Management Systems requires an e-infrastructure made by interoperability standards:
  • Shared ontologies
  • Agreed protocols and formats
  • Unique and persistent identifiers for entities
Thank you for attention

Some images were found on the Internet and it was not possible to trace their owners, who are invited to contact me for any issue.

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