MILOS: A Multimedia Content Management System for Digital Library Applications

ISTI-CNR

Giuseppe Amato

Claudio Gennaro

Pasquale Savino

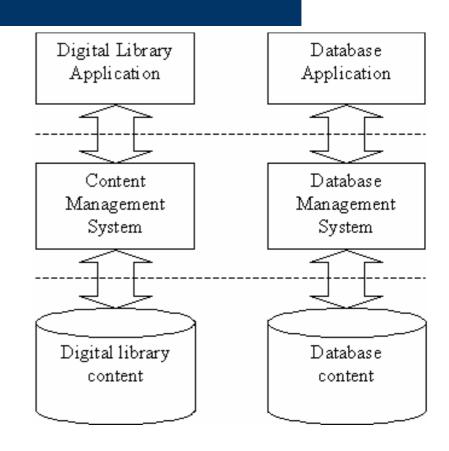
Fausto Rabitti

Work Supported by:

- •DELOS NoE, funded by the EU IST program
- •ECD and VICE, funded by MIUR

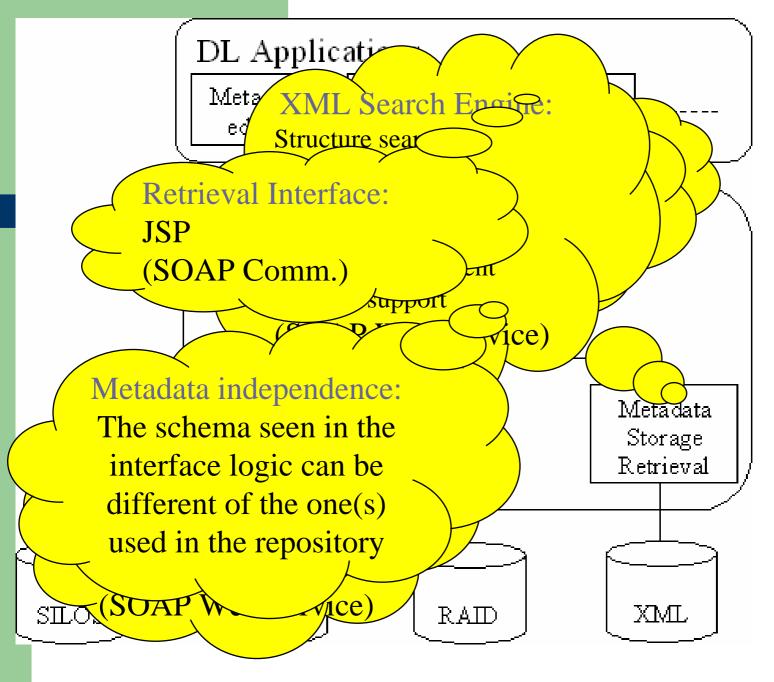
What is MILOS?

- Multimedia Content
 Management System
 - Specialised for Digital Library (DL) Applications
 - the same role that a
 Database System has in the business management field
 - Database system -> data intensive applications
 - MILOS -> document intensive applications (as DL)



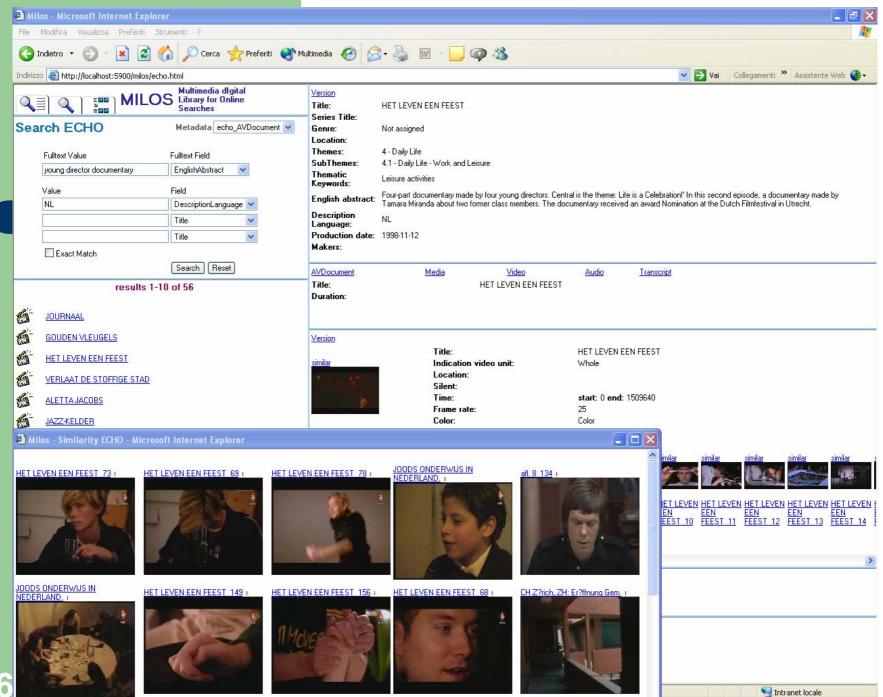
Features:

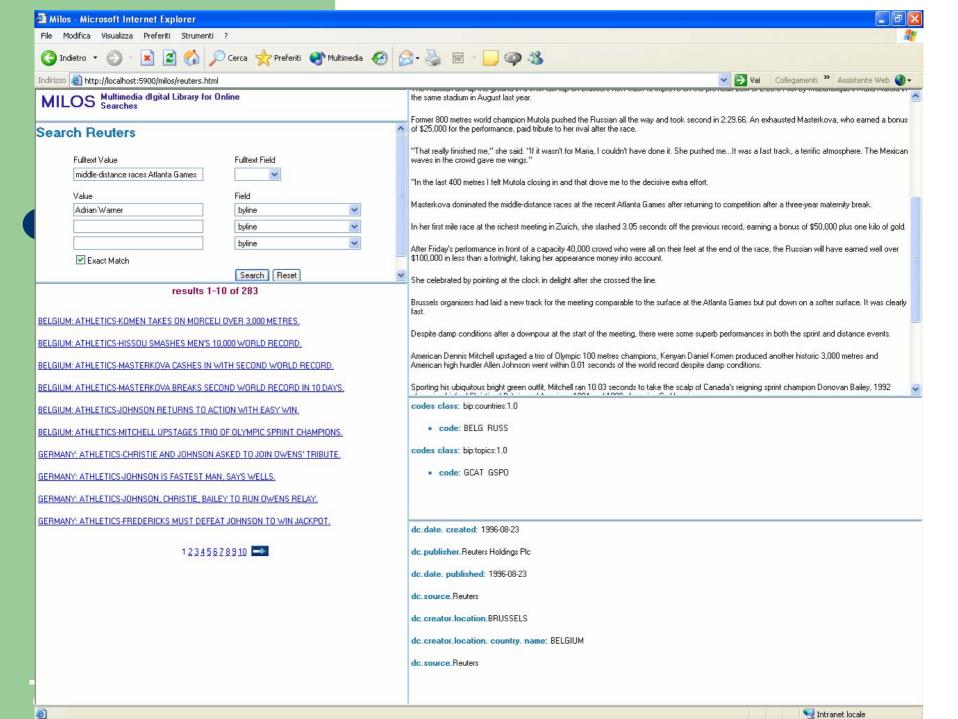
- Basic functionalities:
 - Document storage and preservation
 - Efficient and effective retrieval
 - Efficient and effective metadata management
 - Searching and managing multimedia documents
 - Scalability
- Additional functionalities
 - Managing heterogeneous documents
 - Managing heterogeneous metadata
 - Applications provided with metadata schema independence

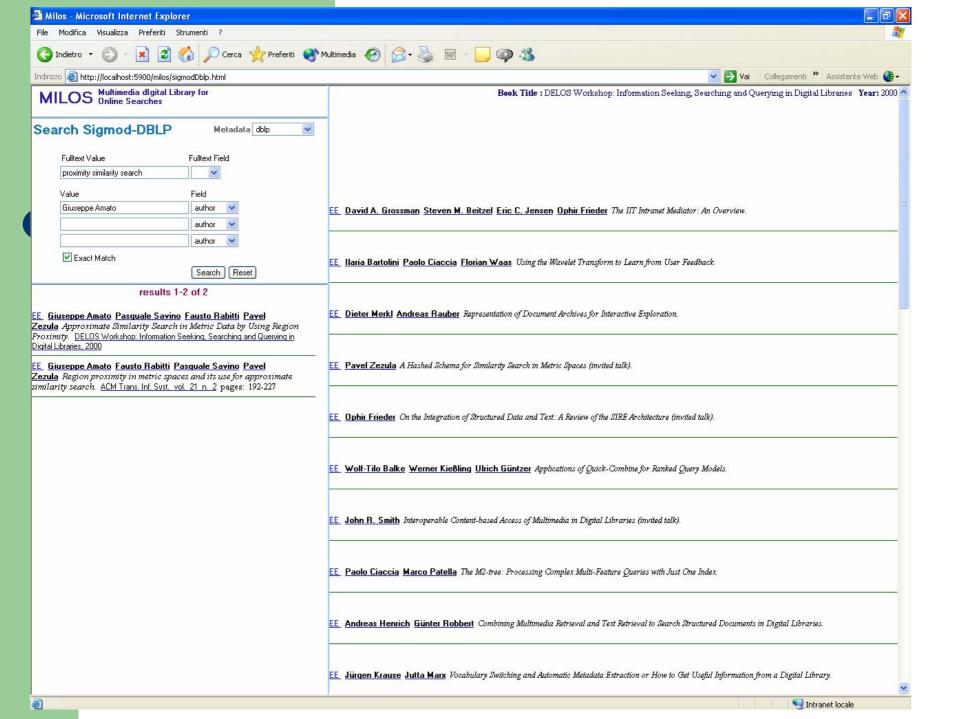


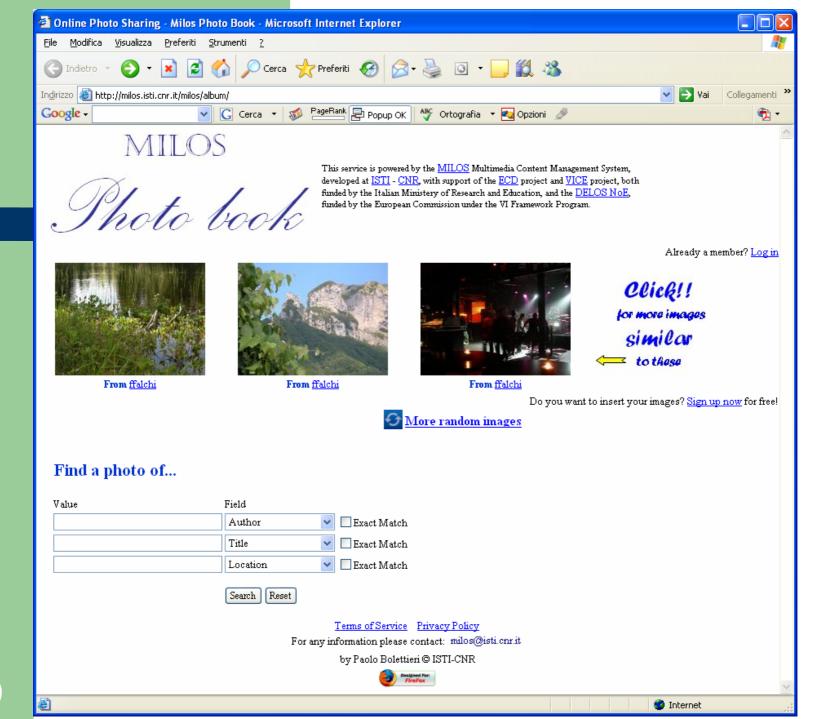
Digital Library Application Examples

- We have tested MILOS building the following DL applications (Shown in the demo):
 - ECHO:
 - 50 hour of A/V data with IFLA-FRBR and MPEG-7 metadata (21 Gb of MPEG-1, 43.000 XML files), ~ 27.000 key-frames
 - REUTERS:
 - 810.000 XML encoded, news agencies (2.6 Gb)
 - DBLP and SIGMOD Records
 - 187 Mb of XML files
 - Photo Book
 - ~4000 Colour images, with MPEG-7 visual descriptor metadata
- User requests are processed in less than a second on average









MILOS Technical Details

- SOAP compliant Web Services
- Entirely Developed in JAVA
 - Apart some specific third party libraries
 - Low level indexes and image similarity indexes
- Application server:
 - TOMCAT with JAX-RPC
- Basic (Quick Start) installation is trivial
 - (Just copy the MILOS folder where you want and double click Start.bat)
- Operating System
 - Tested on WIN 2000 and XP
 - May run on Linux (without image similarity)

Questions?

