Digital Libraries
(Survey)

Norbert Fuhr
Content

- Introduction to DLs
- Image Digitization
- Metadata
- Digital Preservation
- Annotations
- Identifiers and Reference Links
- Interoperability
- Resource selection
- Repositories
- DL Architectures
- Social and Economic factors
- Access
- Multivalent Documents
- Evaluation
Daffodil

- Strategic support
- Proactive system support
- Digital library life cycle
- Collaboration
Introduction to DLs

(Gary Marchionini)

• Definitions and characteristics of DLs

• Library Extension: Current Digital Library R&D

• Toward Augmentation: The Sharium Model

• The Open Video DL Case

• DL Evaluation

• Implications of DLs
Image Digitization

(Anne Kenney)

- resolution and threshold
- bit depth
- image enhancement
- color management
- compression
- system performance
- operator judgment and care
Introduction to Metadata

(Thomas Baker)

- What is Metadata
- Dublin Core
- Encoding Metadata: HTML, XML, RDF
- Metadata Harvesting OAI
- Metadata Infrastructure
- Metadata Landscape
Identifiers and Reference Links

(William Arms)

• Properties of handles

• Elements of the handle system

• Application of identifiers
Interoperability

(Arms)

- Heterogeneous distributed systems
- DIENST
- Standardization
- Z39.50
Repositories

(Arms)

- Layers and interfaces
- Object models
- Protocols
- Access management
DL Architectures

(Schult)

- Service-oriented Architectures

- Peer-to-Peer Architectures

- Grid Infrastructures,
Access Management

(Arms)

- Copyright
- Digital objects
- Users and roles
- Permitted operations
- Enforcement
- Roles and permitted operations
- Policies
- Encryption
- Authentication
- Subsequent use
Social and Economic Factors

(Lin)

- Social factors
- Dissemination
- Intellectual property
- Economic factors
- Knowledge economy
Multivalent Documents

(Phelps/Wilensky)

- Functionality and architecture
- Browser
- Behaviors
- data structures
- Protocols
- Events
- GIS viewer
Evaluation
(Saracevic)

• State of the art in evaluation

• construct

• context

• criteria

• measures

• methods
The Future of DLs

(Ioannidis)

- Person-centric
- Targeted for active communication/collaboration
- Generic technology for DLMS
- Environment-specific needs on top of them
- Maximum reuse
- Global distributed interacting systems
- “All” applications