Distributed Collection

Multiple Approaches
- Increase
- Reduce
- Increase

Federated Search

EFFECTiveness

Functionality

Intelligent Search

Collecting Required Information

Fusion of Results
Digital libraries

metadata

leads to

increase in availability

are a form of
digital collection

is key to

usable system

has some problems

searching

multilingual collections

must be synchronized

multimedia document
Answer Set

Rec. Alg.

Rec. contains

Recall measured by

Precision & Recall has alternate measures

Single Measure

Time

Space

Functional Analysis

Performance Analysis

Software Overheads

Delay

Communication

Index Interaction

Users, Scriptions

Novelty Ratio

Utility Ratio

Usage Ratio

Batch Read Problems

Sufficient Aspects
Extended Boolean model
- Contains
- Vector model

Alternative Set Theoretic models
- Uses

Fuzzy set
- Uses
- 0-1 membership
- Partial membership
- Full membership

Fuzzy sets
- Theorems

P-norm model for distances
- Uses

Term weighting
- Can use
- Compos of p-values and queries

Partial matching

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- P. Huston
TR system uses WWW, which has challenges containing heterogenous data. WWW is a ubiquitous database containing unstructured data, distributed data, and volatile data.

Ranking contains models of Kleinberg Model, which has different search methods. Search methods consist of search engines, hyperlink structure, and web directories.

WebQuery allows visual web browsing.

Problems have centralized architecture and distributed architecture.
Data Gathering

Data Volume

Consists of

Harvest Model

Contains

Gathers/distributes

Gatherers

Web Data

Collects + extracts

Performs

Indexing Info

Indexing Mechanism

Provides

Brokers

Query Interface

Avoids

Into Filtering

Work repetition
Societies
- Scenarios
  - Spaces
- Structures
  - Streams
SS Model
  - SS Graph
    - DL mod. tool
    - Express in
      - SSL
        - Easier
          - GUI interface
            - XML
  - Existing standards
    - Hard to manually write XML
    - Must be understood well to be used correctly

Value constraints
  - ASSOC. constraints
Semantic constraints
  - Component reuse
    - Synt. blw models and meta models
      - Flexible & extensible arch.

Evaluate
- Usability tests
  - Effectiveness & efficiency
    - Satisfaction
value constraints
include assoc. constraints

semantic constraints
component reuse
synch. b/w models
and metamodels
flexible & extensible arch.

SSGraph

SSL

usability tests
evaluate
efficiency
usability tests
effectiveness
satisfaction

express in
GUI interface
XML

existing standards

rare pitfalls of
must be understood
well to use correctly

John Connolly, Will Kinney, Mary T.
**Key features**

- Component reuse
- Modelled using SSS
- Reduces time and designer effort
- Flexible architecture
- Extensible architecture
- Sub-model reuse
- Model + Metamodel synchronization

**Functionality**

- Has difficulties
- Consist of 5 submodels
- Hard to write without tool
- Number of semantic constraints
- Hard to obtain big picture of DL

**Composed of**

- Streams
- Spaces
- Societies
- Structures
- Scenarios