CISTRANA Project Workshop: Portals for information dissemination and taxonomies for classification

Introduction to Day 2

Simon Lambert
Information Science and Engineering Group
Business & Information Technology Department
CCLRC Rutherford Appleton Laboratory

Today's schedule

Tuesday 21st February 2006	
Facilitator for day: Simon Lambert	
09:30–10:00	Introduction to the day, *Simon Lambert, CCLRC*
10:00–10:30	Informal talk on CORDIS, *Michael Rogers, EC – CORDIS*
10:30–11:30	Taxonomies, thesauri, classification schemes: ways of structuring concepts and navigating structures, *Leonard Will, Willpower Information*
11:30–12:30	Issues in taxonomy development and application, *Stella Dextre-Clarke, Information Consultant*
12:30–14:00	Lunch (provided)
14:00–15:00	Taxonomies and the Semantic Web, *Alistair Miles, CCLRC*
15:00–16:00	Wrap-up discussion
16:00	Close of workshop

Why are taxonomies relevant?

- Improve search and browse
  - "Show me all projects in neural networks."

= neural nets,
connectionist systems,
…

- Permit comparability
  - "How many projects on nanotechnology in these countries?"

Confidence in completeness and correctness of labelling

Some issues in taxonomies

- Choice/development
  - What basis is needed for portals: taxonomy, thesaurus, controlled vocabulary, ontology, …?
  - What motivates the choice of depth of a taxonomy?
  - Do different users have different needs for taxonomies? How to reconcile them?
  - How to work with multiple established taxonomies?

Some issues in taxonomies

- Maintenance/evolution
  - Is it possible to assess the quality of a taxonomy?
    - Fitness for purpose
    - Balance – Discrimination – Coherence – Clarity
  - How can taxonomies be kept up to date with the evolving field?
  - What are the implications? (e.g. reclassification of existing data)
- Multi-language
  - How important are multilingual taxonomies in the European IST environment?

The CISTRANA IST ERA Taxonomy

- The project surveyed several options
- Selected “codification of technological areas” used by IRC (Innovation Relay Centres)
- Also has taxonomy of “sectors of implementation”

The CISTRANA IST ERA Taxonomy

1.13	Printed Circuits and Integrated Circuits
1.14	Quantum Informatics
1.15	Semiconductors
1.16	Smart Cards and Access Systems
2	**Information Processing, Information System**
2.1	Advanced Systems Architecture
2.2	Archivistics / Documentation / Technical Documentation
2.3	Artificial Intelligence (AI)
2.4	Computer Games
2.5	Computer Hardware Technology
2.6	Computer Software Technology
2.7	Computer Technology / Graphics, Meta Computing
2.8	Data Processing / Data Interchange, Middleware
2.9	Data Protection, Storage Technology, Cryptography, Data Security
2.10	Databases, Database Management, Data Mining
2.11	Electronic Commerce, Electronic Payment, Electronic Signature
2.12	Imaging, Image Processing, Pattern Recognition
2.13	Information Technology / Informatics
2.14	Internet Technologies
2.15	Knowledge Management, Process Management
2.16	Simulation
2.17	Speech Processing / Technology
2.18	User Interfaces, Usability
3	**IT and Telematics Technology**

CISTRANA taxonomy feedback

Feedback form on CISTRANA website

Type of organization you work for (government, research, industry, etc.):

Your position (policy maker, programme manager, researcher, other):

Country:

Would a European ICT Taxonomy be useful for you for:

- a. description/identification of future research priority areas
- b. description/comparison/browsing/search of European research programmes
- c. description/comparison/browsing/search of national research programmes
- d. description/comparison/browsing/search of calls to obtain funding for ICT research
- e. classifying/searching for ICT related EU R&D projects
- f. classifying/searching for ICT related national R&D projects
- g. classifying/searching for ICT related scientific publications
- h. finding ICT research partners
- i. finding ICT research results
- j. finding ICT related events

Other:

Which ICT taxonomies have you used?

- 1. IPPA technology categories (view)
- 2. FP6 IST Strategic Objectives (view)