

# International Conference on Dublin Core and Metadata Applications

DC-2008 closing session

Bernhard Haslhofer

Makx Dekkers

Laurent Romary



# International Conference on Dublin Core and Metadata Applications

Selection of best poster



Bernhard Haslhofer  
University of Vienna

# SKOS for an Integrated Vocabulary Structure

中国分类主题词表

Marcia L Zeng

Kent State University, USA

Wei Fan

Chinese Academy of Sciences, China

Xia Lin

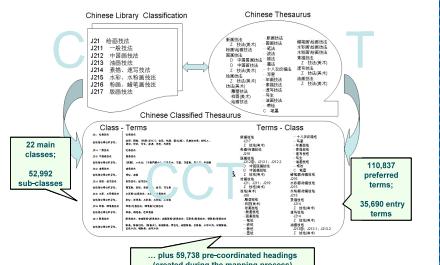
Drexel University, USA

**Introducing CCT**

Chinese Classified Thesaurus

**1. CCT Vocabulary**

- a collected effort led by the National Library of China
- an integration of the national standards Chinese Library Classification (CLC) and Chinese Thesaurus (CT)
- a manually created mapping product, providing for each of the classes the corresponding thesaurus terms, and vice versa

**2. CCT Format**CNMARC Format for Classification Data  
(P & E CLC/MRC)  
Based on UNMARC Classification FormatCNMARC for Authorities  
(Subject Authority)  
Based on UNMARC Authorities format

IV. 数据区	IV. Data
0-标目块 Identification Block	0-标目块 Identification Block
1-类属块 Heading Block	1-类属块 Heading Block
2-附注块 Notes block	2-附注块 Notes block
3-单值形容词 See Reference Block	3-单值形容词 See Reference Block
4-多值形容词 See Reference Block	4-多值形容词 See Reference Block
5-类属项块 Refinement Block	5-类属项块 Refinement Block
6-类属项块 Number Building Block	6-类属项块 Number Building Block
700-750 表现形式块 Indr Info Block	700-750 表现形式块 Indr Info Block
8-来源类块 Source Information Block	8-来源类块 Source Information Block
9-国内使用类 Block	9-国内使用类 Block

**3. Current CCT Online Interface**

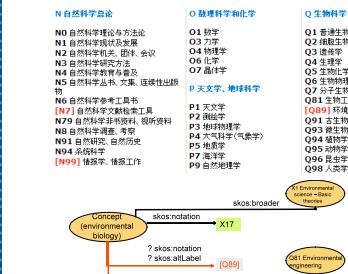
The interface includes sections for 'Notation + Term' and 'Term + Notation'. It features a search bar at the top and a sidebar for navigation. A legend indicates 'Notation entry + term' and 'Term entry + notation'.

**SKOS for [enumerative] Classification Systems**

Beyond thesauri, there are issues:

**1. The order of main classes/ schedules**

- Use skos:OrderedCollection to include main classes and used skos:memberList to show the member in an order.

**2. Alternative classification notations**e.g., [Q89] environmental biology  
Preferred class: X17

## Discussion of options:

- ? skos:notation  
Yes – if SKOS allows for more than one notation for one concept. But how can you show which one is preferred and which one is not?
- ? skos:altLabel  
No. This is not an alternative label. It is a concept, with its own semantic relations.

**3. Top Concept types...for auxiliary tables, etc.**

- Add local attributes?  
e.g., "hasTopTableConcept"

```
my:hasTopFamilyConcept
my:hasTopClassConcept
my:hasTopTableConcept
...
```

**4. Notations are constructed in various ways...**

From CCT Format -- field 260:

- 260 分类号 (必备, 不可重复)  
指示符上类号的编排制度  
Indicator 1: Notation forming rule  
0 0ierarchical notation  
1 expanding at number 9  
2 double-digit  
3 单位级类号  
4 值级类号  
5 领域类号  
6 机构类号  
7 项目类号  
8 顺序类号  
n 以上都不适用的
- 260 Notation (Mandatory, non-repeatable)  
Indicator 1: Notation forming rule  
0 hierarchical notation  
1 expanding at number 9  
2 double-digit  
3 broadening super-ordinate class's notation  
4 borrowing sub-ordinate class' notation  
5 borrowing co-ordinate class' notation  
6 borrowing "0" in notation  
7 using "+" for summary number span  
8 sequential notations  
n other rules

skos:notation doesn't record how a classification notation is built.

**SKOS for Mapped Vocabularies****Option 1. CCT as a mapping result**

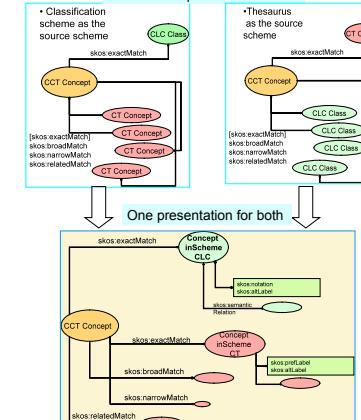
## Advantages:

- Semantic relationships are clear
- Avoids semantic conflicts in applications

## Disadvantages:

- Complicated
- Time-consuming

## Two kinds of possible situations

**Sub-issue 1. Many-to-one mapping****multiple terms for one class**

Although the mapping is concept-based, the representation of concepts depends on the terms.

The result could be more than one term (each represents a different concept) point to the same notation.

Option discussed: deal with a combined term as a string only, each representing a concept that did not exist in the original source schemes.

There might be problems for these new strings to be semantically linked with the concepts that each unit of the string originally represents.

multiple terms for one class

# International Conference on Dublin Core and Metadata Applications

DC-2008 overview:

Metadata for Semantic and Social  
Applications



Makx Dekkers

DCMI

## ● Program overview

- Opening
  - Christoph Marksches, President, Humboldt Universität
  - Michael Seadle, Director, Institute of Library and Information Science, Humboldt Universität
- 4 Keynotes
- 5 full paper sessions (12 papers)
- 3 project report sessions (8 reports)
- 1 special session (Wiki and metadata)
- 12 posters
- 17 Workshop sessions

# Keynotes

Tuesday:

- **Kurt Mehlhorn**, Max Planck Society, Germany
- **Jennifer Trant**, Archives & Museum Informatics, Canada

Wednesday

- **Ute Schwens**, German National Library

Thursday

- **Paul Miller**, Talis, UK

# ● Program content

## Papers

1. Dublin Core: Innovation and Moving Forward
2. Semantic Integration, Linking, and KOS Methods
3. Metadata Generation: Methods, Profiles, and Models
4. Metadata Quality
5. Tagging and Metadata for Social Networking

## Reports

1. Toward the Semantic Web
2. Metadata Scheme Design, Application, and Use
3. Vocabulary Integration and Interoperability

## Posters

Research and development

# Workshop track

Afternoon sessions Tuesday through Thursday

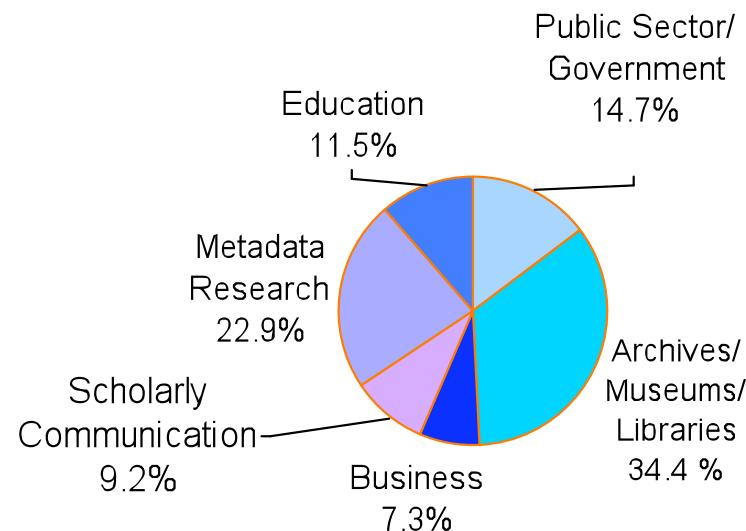
- 17 Workshop sessions
  - **DCMI Architecture Forum**
    - One introductory session, one working meeting
  - **DCMI Communities**
    - Libraries, Social Tagging, Identifiers, Tools, Scholarly Communications, Knowledge Management, Registry, Localization & Internationalization, Accessibility
  - **DCMI Task Groups**
    - Education, Government, DCMI/RDA, DCMI/IIEEE
  - **Special sessions**
    - NKOS, Metadata for Scientific Datasets

## ● DC-2008 participants

- 312 registered participants, incl. 28 students
- 39 countries
  - Australia, Austria, Belgium, Brunei, Canada, China, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Iran, Ireland, Israel, Italy, Japan, Korea, Latvia, Luxembourg, Netherlands, New Zealand, Norway, Poland, Portugal, Qatar, Romania, Serbia, Singapore, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, United Arab Emirates, United Kingdom, United States
- Domains represented:

# ● DC-2008 domain survey

## Participants



# Observations

## Semantic applications

- Various levels of interoperability visible in projects, from basic, informal level to Singapore Framework
- Move towards semantic techniques, important research
- Application Profiles: from theory to practice, expect more results by DC-2009

## Social applications

- Investigation into real usefulness for discovery and other applications, more research needed
- User tagging, at least, gives content providers insight in how users look at their resources

## ● General issues

- Infrastructure and tools are there to start building advanced services
- People are building systems now that meet current needs, but integration of research results increasingly important
- Last year's conference had a very technical focus, this year paid much more attention to requirements and functionalities
- DC-2008 supported the cross-fertilization of research and practice that will help advance the field to the benefit of all

# International Conference on Dublin Core and Metadata Applications

DC-2008 close

Laurent Romary  
Max Planck Digital Library

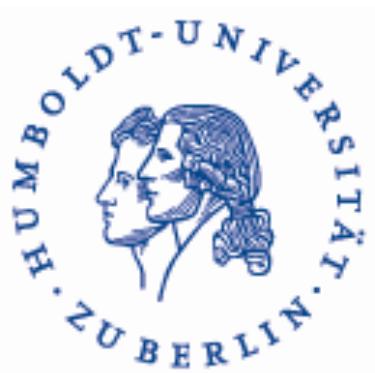


# International Conference on Dublin Core and Metadata Applications





•DC 2008 organised by ...



MAX PLANCK  
digital library



**KIM**  
Kompetenzzentrum  
Interoperable Metadaten



 NIEDERSÄCHSISCHE STAATS- UND  
UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN

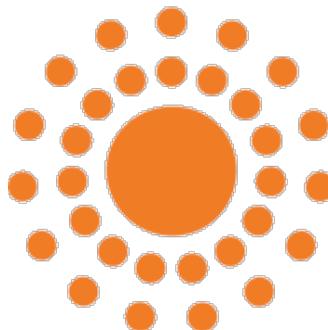




# Thanks to ...



- Susanne Dobratz
- Niels Fromm
- Elke Greifender
- Maxi Kindling
- Sandra Lechelt
- Christian Pfaff
- Beate Rabold
- Matthias Schulz
- Marion Senna da Costa
- Kathi Woitas
  
- Peggy Beßler
- Katrin Gashi
- André Wobst



- Mirjam Keßler

- Ricarda Blumentritt
- Stefan Farrenkopf
- Justine Haeberli
- Felix Paul Kühne
- Nils Lindenberg
- Daniel Metje
- Stefanie Rühle

- Dierk Eichel
- Bernadette Gandaa
- Johannes Hercher
- Wenzel Hercher
- Matthias Klein
- Peggy Ködel
- Tina Matzat



---

## ● Special Thanks to ...

- **Stefanie Rühle**
- **Mirjam Keßler**
- **Elke Greifeneder**
- **Peggy Beßler**



# Good Bye and CU Next Year in Korea



THE NATIONAL LIBRARY OF KOREA

