

Multilingual Terminology

Pierre Zweigenbaum

STIM : Mission de recherche en sciences et technologies
de l'information médicale,
DSI, Assistance Publique – Hôpitaux de Paris ;
CRIM, INaLCO ;
U729, INSERM
Paris, France

`pz@biomath.jussieu.fr`
`http://estime.spim.jussieu.fr/~pz/`

LREC 2006 : COCOSDA/WRITE workshop - 28/5/2006

More than 60 papers submitted to the Terminology track
(growing number)

General, misc	4
Terminology & knowledge acquisition	5
Relations extraction	5
Terminology and ontologies	9
Terminology extraction, creating terminologies	16
<i>Total</i>	39

Bente Maegaard, 27/5/2006

- Acquiring and representing multilingual, specialized lexicons: the case of biomedicine
 - 25 attendees whole day
 - distributed, collaborative development of multilingual {lexicon|terminology} (wiki-style)
- Terminology design: quality criteria and evaluation methods (TermEval)
 - today
- [OntoLex 2006: Interfacing Ontologies and Lexical Resources for Semantic Web Technologies]
 - ~40 attendees
 - “annotate” ontology with language information

Enumerate the terms that express the concepts of a given domain

- Domain-specific vs general
- Generally onomasiological vs semasiological
 - although corpus-based terminology construction an active domain

Terminology: position and delimitation

Enumerate the terms that express the concepts of a given domain

- Domain-specific vs general
- Generally onomasiological vs semasiological
 - although corpus-based terminology construction an active domain

Issues:

- Fuzzy border with specialized lexicons
- Fuzzy border with ontologies:
 - People often call “ontology”
 - a taxonomy
 - a structured terminology

→ Structured terminology (often corpus-based) as a first step towards an ontology (whatever that may be)

Terminologies are purpose-oriented

E.g., 100+ different terminologies in the field of medicine in the UMLS Metathesaurus

- Limits their **shareability**
- Not only provide ready-made terminologies,
 - but also/instead provide methods and tools to design/build/adapt terminologies
- Extremely difficult to **evaluate**,
e.g., corpus-based term extraction
 - as opposed, e.g., to controlled indexing, where terms are given

- Natural given the onomasiological status of terms:
 - Concepts are “decorated” with terms from different languages
- Adopt a per-domain approach:
involve relevant **user groups**
 - *E.g.*, current work on translation of LOINC terminology:
 - Involve biologists for translation of terminology of laboratory tests

How to foster cross-disciplinary collaboration

- ◁
 - **Attract researchers** from neighbouring, “application-oriented” fields
 - Promote and disseminate standards in these areas
- ▷
 - Raise interest and awareness of computational linguists for domain-oriented work (medicine/bioinformatics, law...)
 - [Computational linguists:] **Publish in “application-oriented”** conferences and journals

- Task-dependence limits **shareability**:
 - to which extent is this an impediment to actual **reuse**?
- Explicitly take into account **purpose** (task) when **evaluating** terminologies
 - and produce terminology tools instead of only terminologies
- Better **articulate** lexicon, terminology, ontology
- Multilingualism: terminologies are in a privileged position (but build on **user groups**)
- Specialized domains: foster **cross-disciplinary collaboration**