

# **Bookmarking, thesaurus, and cooperation in bilingual question answering**

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## Three simultaneous experiments

1. **New Technology:** Topic-tailored term expansion for query formulation
2. **New Interaction Component:** Bookmark panel
3. **New Task Situation:** Cooperation allowed

## Setup

- Topics in Swedish; System mono-lingual French; no translation service
- Moderately competent French readers (no fluent readers accepted)
- Standard ranked list; document inspection window; bookmark panel for answer extraction.
- Various measures logged.

## Thesaurus and term expansion

- Eight queries without term expansion; eight queries without.
- Proven technology: works reasonably well in adhoc task. (See coming paper).
- No use at all here.

## Bookmark panel

- All users, all queries.
- Bookmark text snippet, answer extracted from it.
- Manual override allowed.
- Happy users, no training necessary.

## Cooperation

- All users in pairs.
- Topics out of synch - never same topic simultaneously within pair.
- Communication logged as speech acts in one of a limited set of categories:
  - “Vocabulary question”
  - “System operation”
  - ...
- More communication seems to indicate more similar results.

## Steps forward

- Bookmark technology useful – needs further case studies.
- Thesaurus technology needs excellent data for interactive use.
- More data for cooperation studies necessary.
- Comparison to mono-lingual case for experiments above still lacking.
- Cooperation study methodology seems useful.