

CLEF 2001

Overview of Results

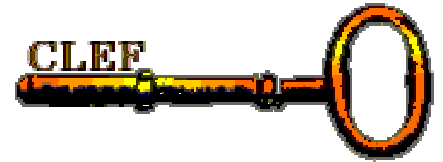
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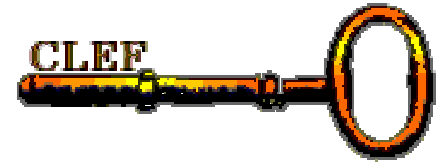




Outline

- Participants
- Experiment Details
- Trends & Effects
- Results

Participants

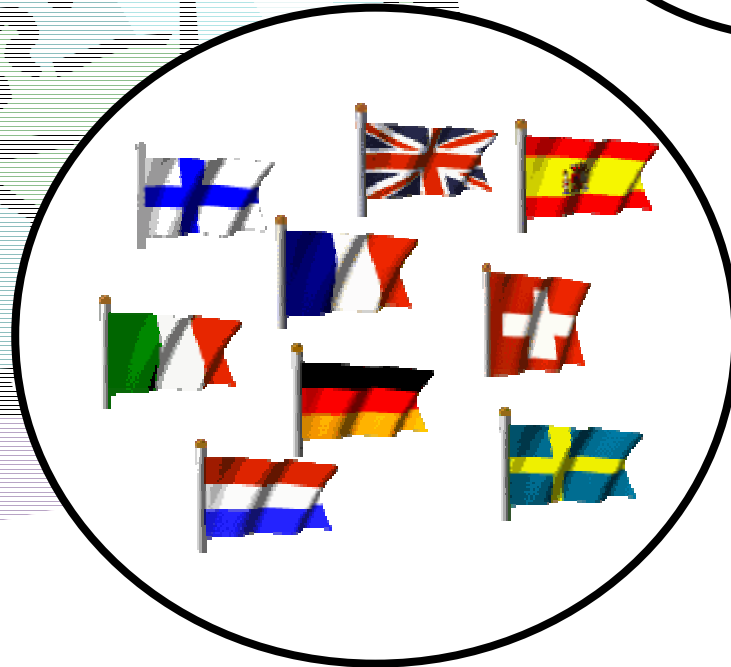
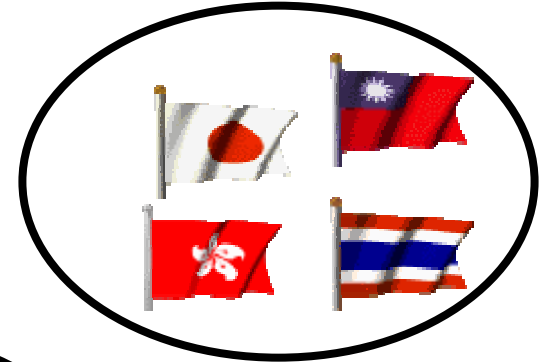
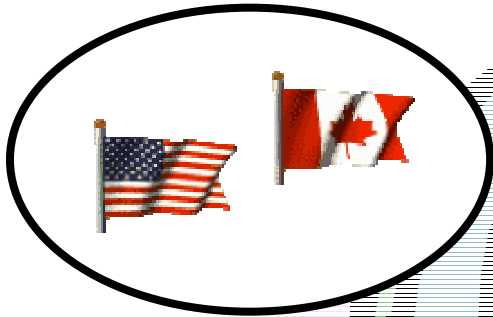
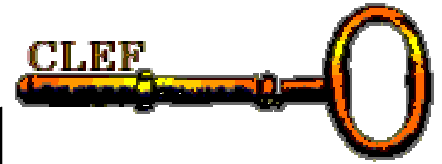


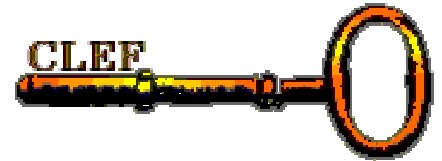
- CMU
- Eidetica
- Eurospider *
- Greenwich U
- HKUST
- Hummingbird
- IAI *
- IRIT *
- ITC-irst *
- JHU-APL *
- Kasetsart U
- KCSL Inc.
- Medialab
- Nara Inst. of Tech.
- National Taiwan U
- OCE Tech. BV
- SICS/Conexor
- SINAI/U Jaen
- Thomson Legal *
- TNO TPD *
- U Alicante
- U Amsterdam
- U Exeter
- U Glasgow *
- U Maryland * (interactive only)
- U Montreal/RALI *
- U Neuchâtel
- U Salamanca *
- U Sheffield * (interactive only)
- U Tampere *
- U Twente (*)
- UC Berkeley (2 groups) *
- UNED (interactive only)



31+3 participants, 15 different countries.
(* = also participant in 2000)

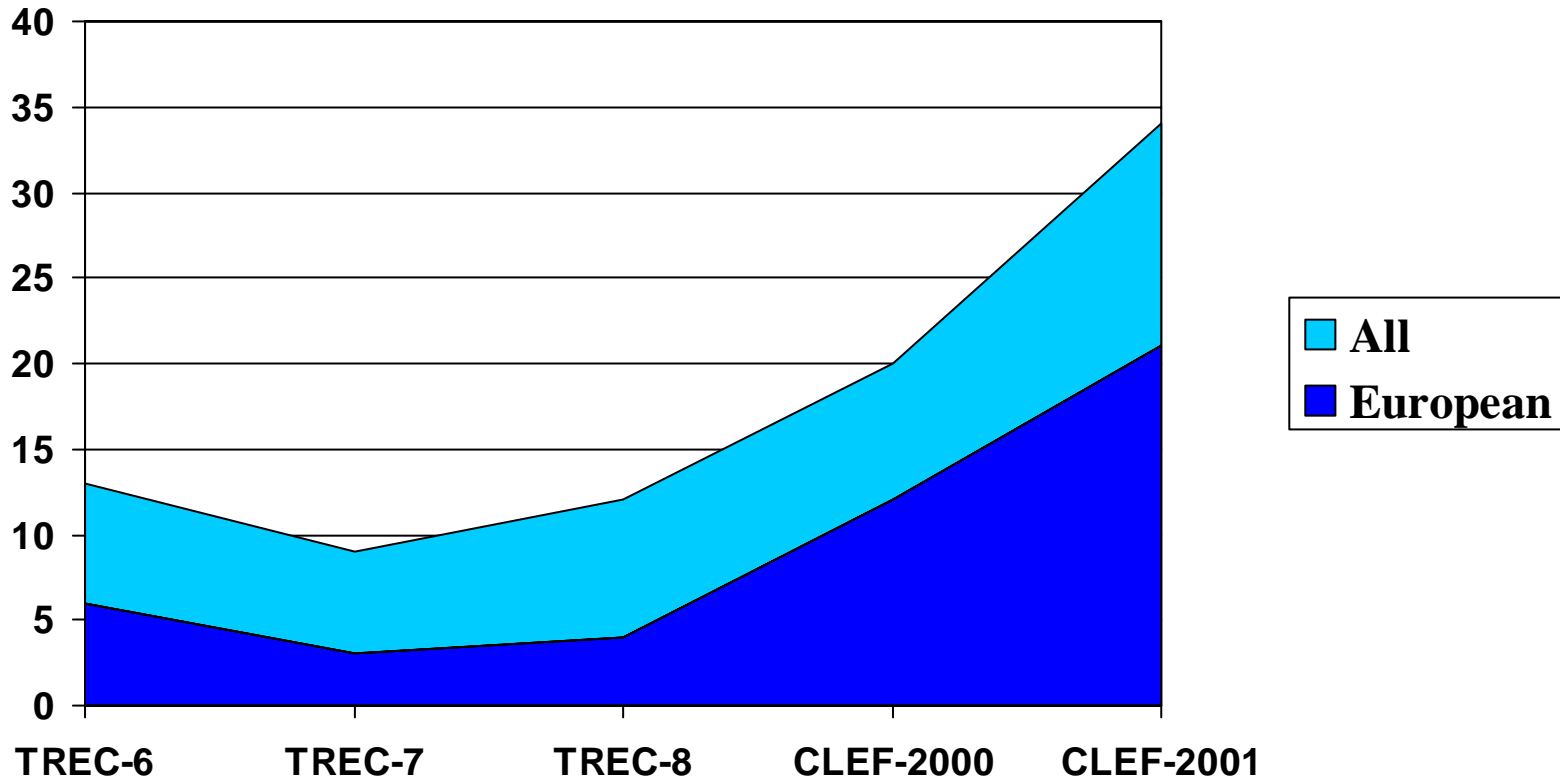
CLEF Goes Global





CLEF Growth

(Number of Participants)





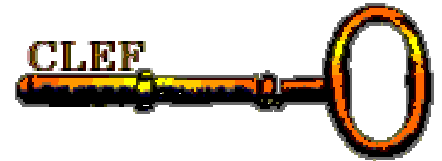
The CLEF Multilingual Collection

	# part.	# documents	Size in MB	# assess.	# topics	# ass. per topic
CLEF 2001	31	749,883	1982	80,624	50	1612
CLEF 2000	20	368,763	1158	43,566	40	1089
TREC8 CLIR	12	698,773	1620	23,156	28	827
TREC8 AdHoc	41	528,155	1904	86,830	50	1736
TREC7 AdHoc	42+4	528,155	1904	~80,000	50	~1600

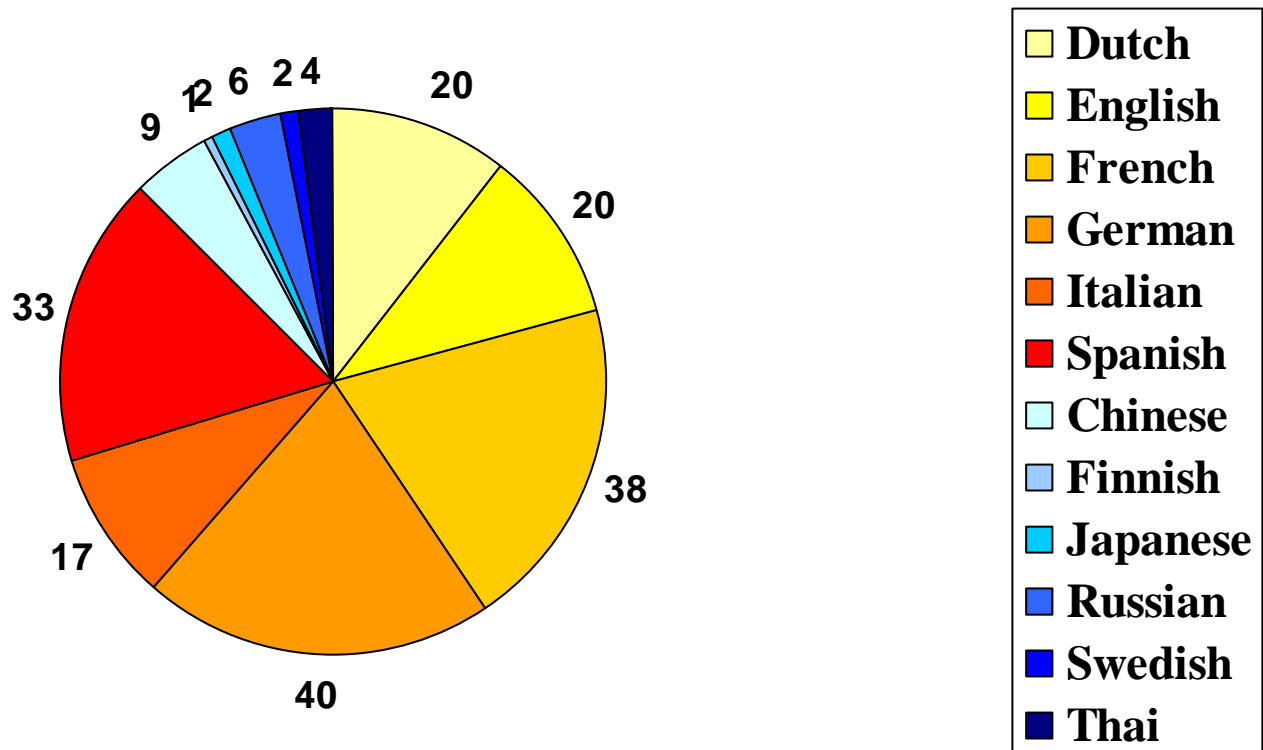


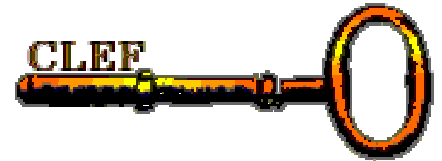
Details of Experiments

Track	# Participants	# Runs/Experiments
Multilingual	8	26
Bilingual to EN	19	61
Bilingual to NL	3	3
Monolingual DE	12	25
Monolingual ES	10	22
Monolingual FR	9	18
Monolingual IT	8	14
Monolingual NL	9	19
Domain-specific	1	4
Interactive	3	6

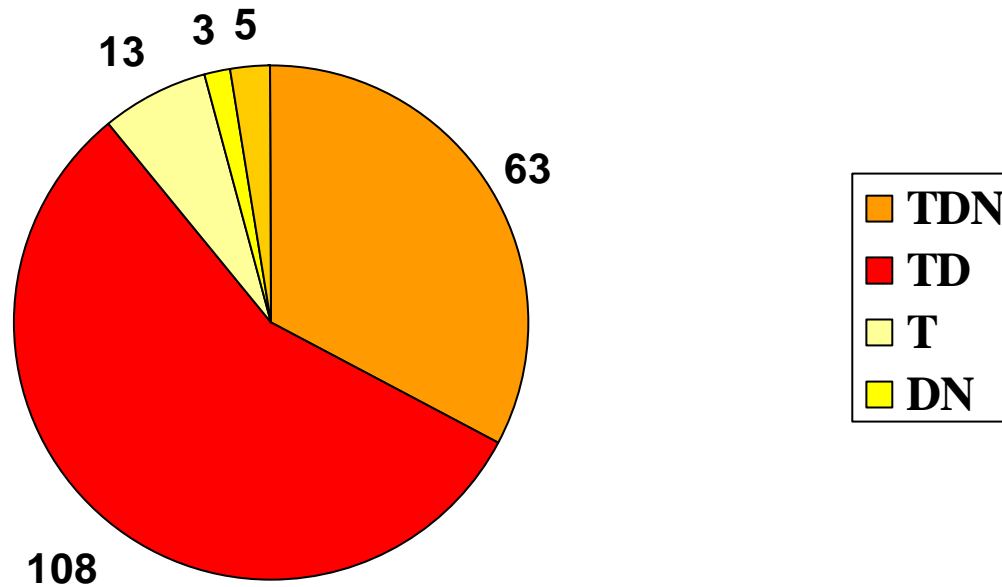


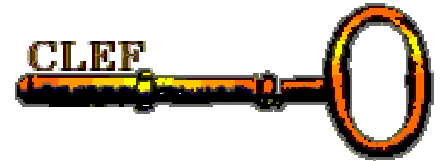
Runs per Topic Language





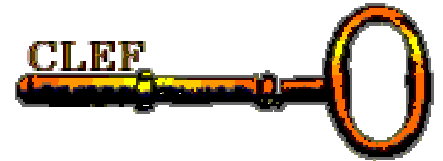
Topic Fields





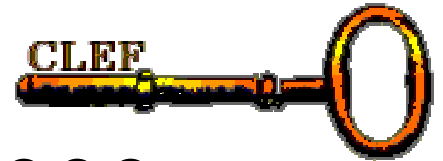
Trends Observed for CLEF-2001 (1)

- Corpus-based, statistical approaches were very popular: UC Berkeley, TNO, RALI, CMU, Mercure, Nara, Eurospider, U Glasgow, Thomson Legal, ..
- Use for either translation or for disambiguation of translation alternatives
- Mining of parallel web pages (some also provided through CLEF participants)
- Use of other parallel and comparable corpora
- Often combined with MRD or MT.



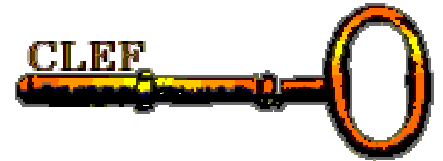
Trends Observed for CLEF-2001 (2)

- A lot of work on stemming
- Interesting work on German (and Dutch, Finnish, Swedish) decomposing
- Conflicting results for decomposing:
 - no improvement: UC Berkeley (-0.5% MAP)
 - improvement: West Group (2000) (+23% MAP)
- N-grams instead of decomposing?



CLEF-2001 vs. CLEF-2000

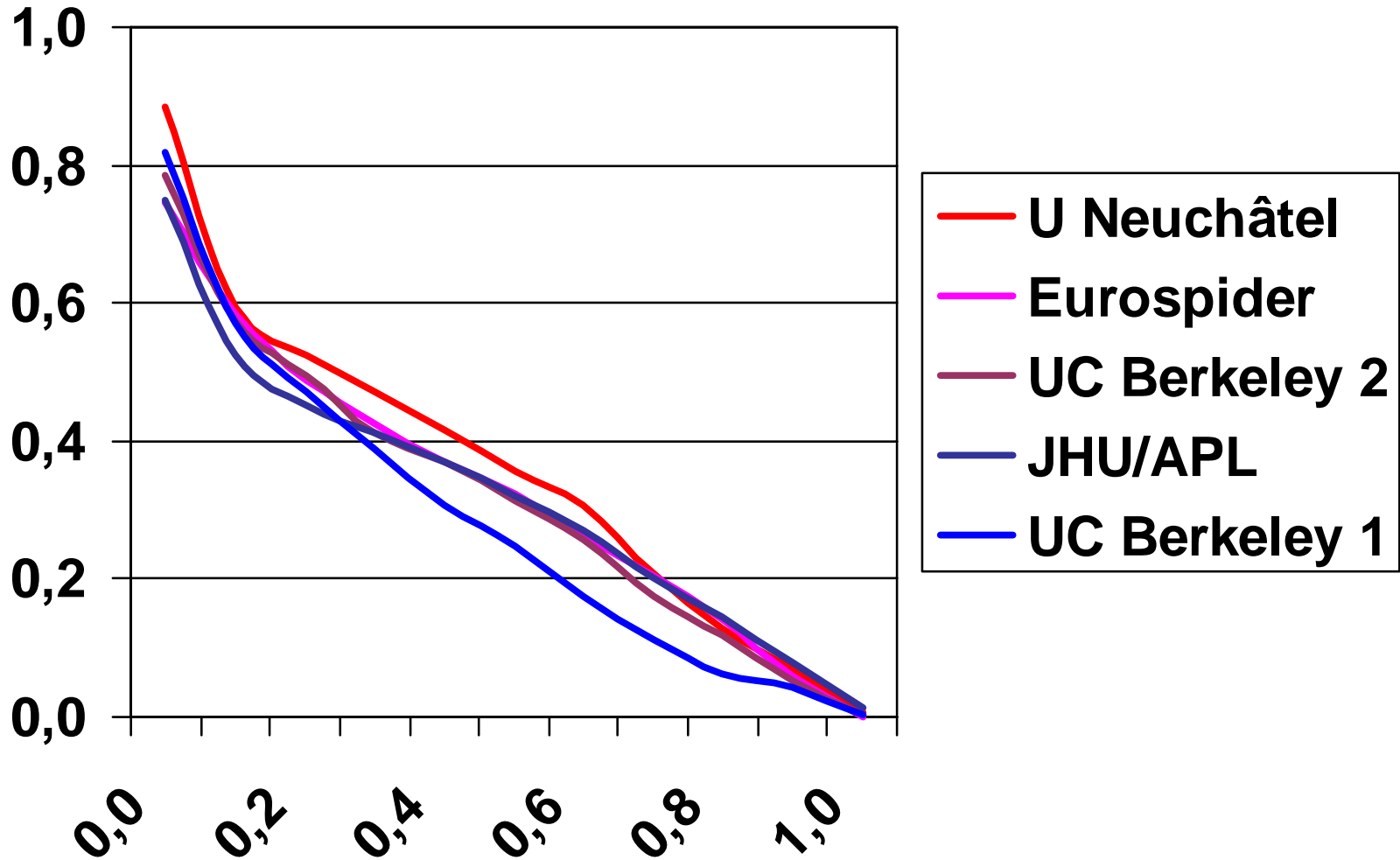
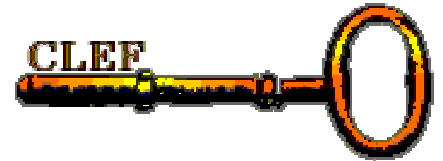
- Most participants were back
- Less MT
- More Corpus-Based
- People really start to try each other's ideas/methods:
 - corpus-based approaches (parallel web, alignments)
 - n-grams
 - combination approaches
 - etc.



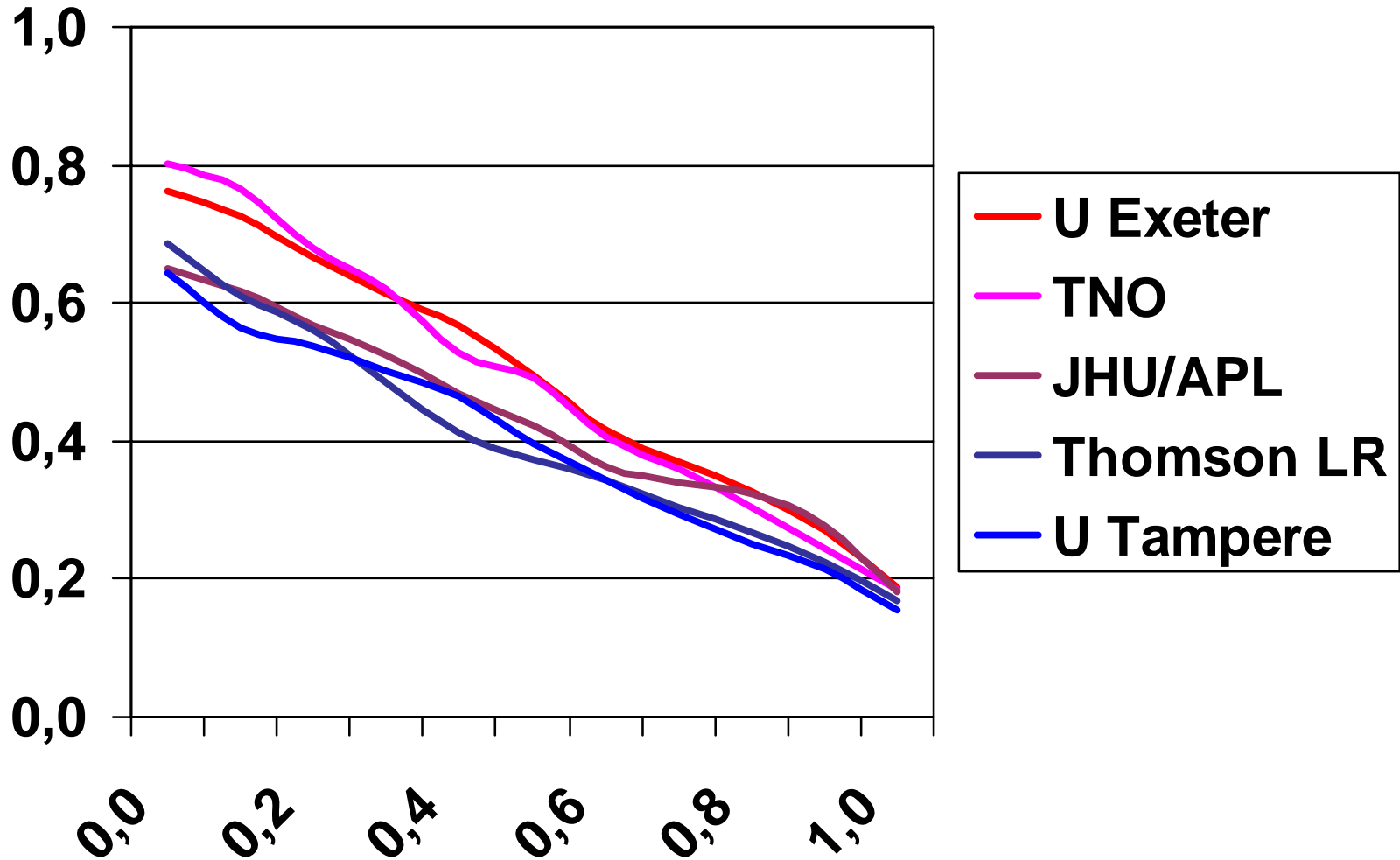
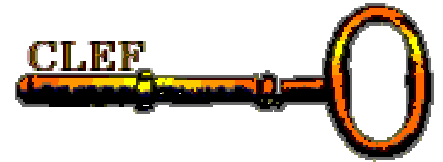
“Effect” of CLEF

- Many more European groups (21!)
- Dramatic increase of work in stemming/decompounding (for languages other than English)
- Work on mining the web for parallel texts
- Work on merging (breakthrough still missing?)
- Work on combination approaches

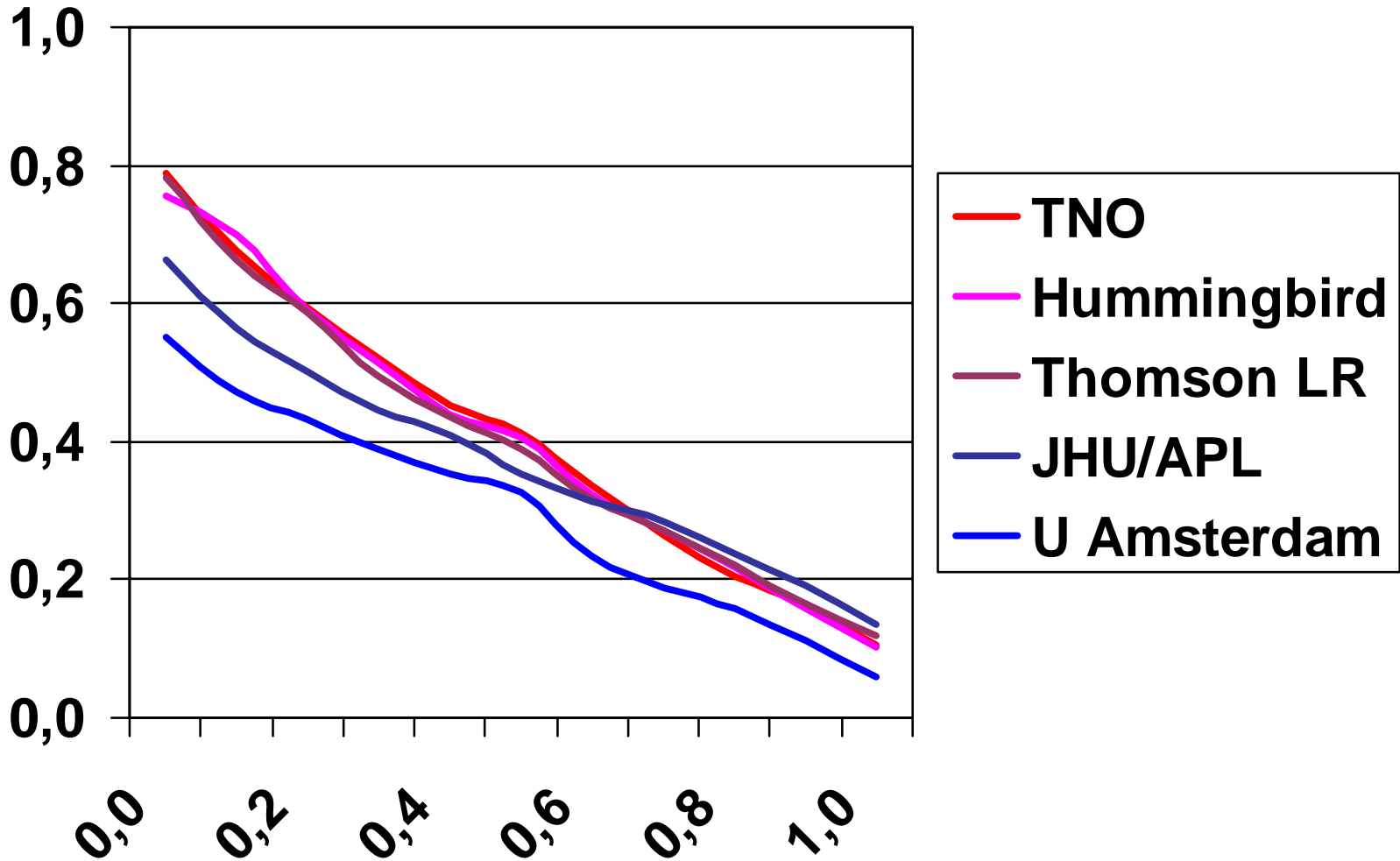
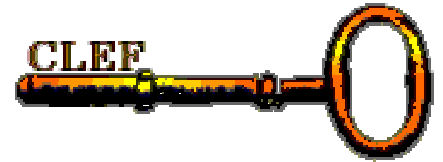
Multilingual



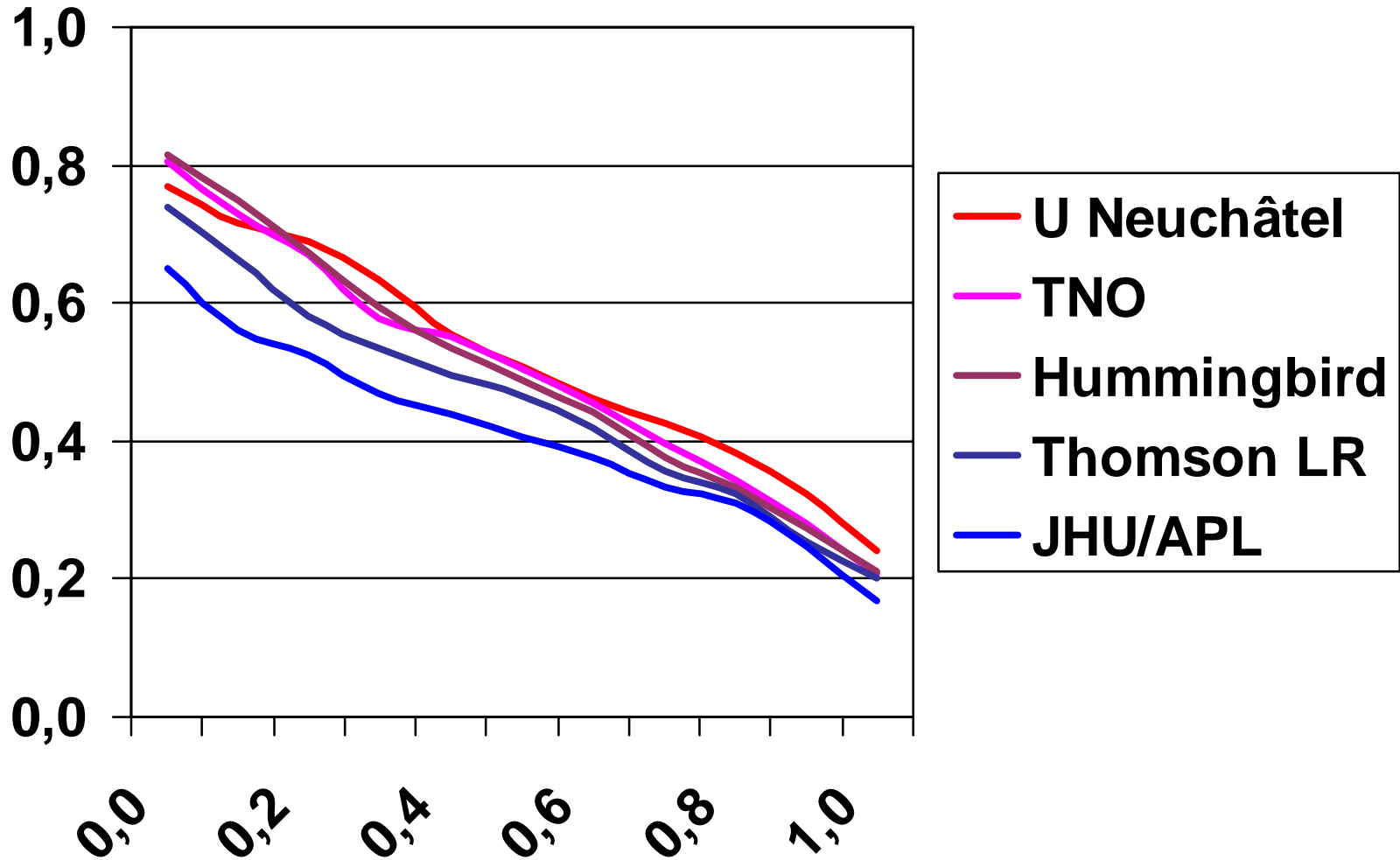
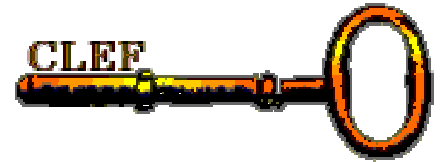
Bilingual



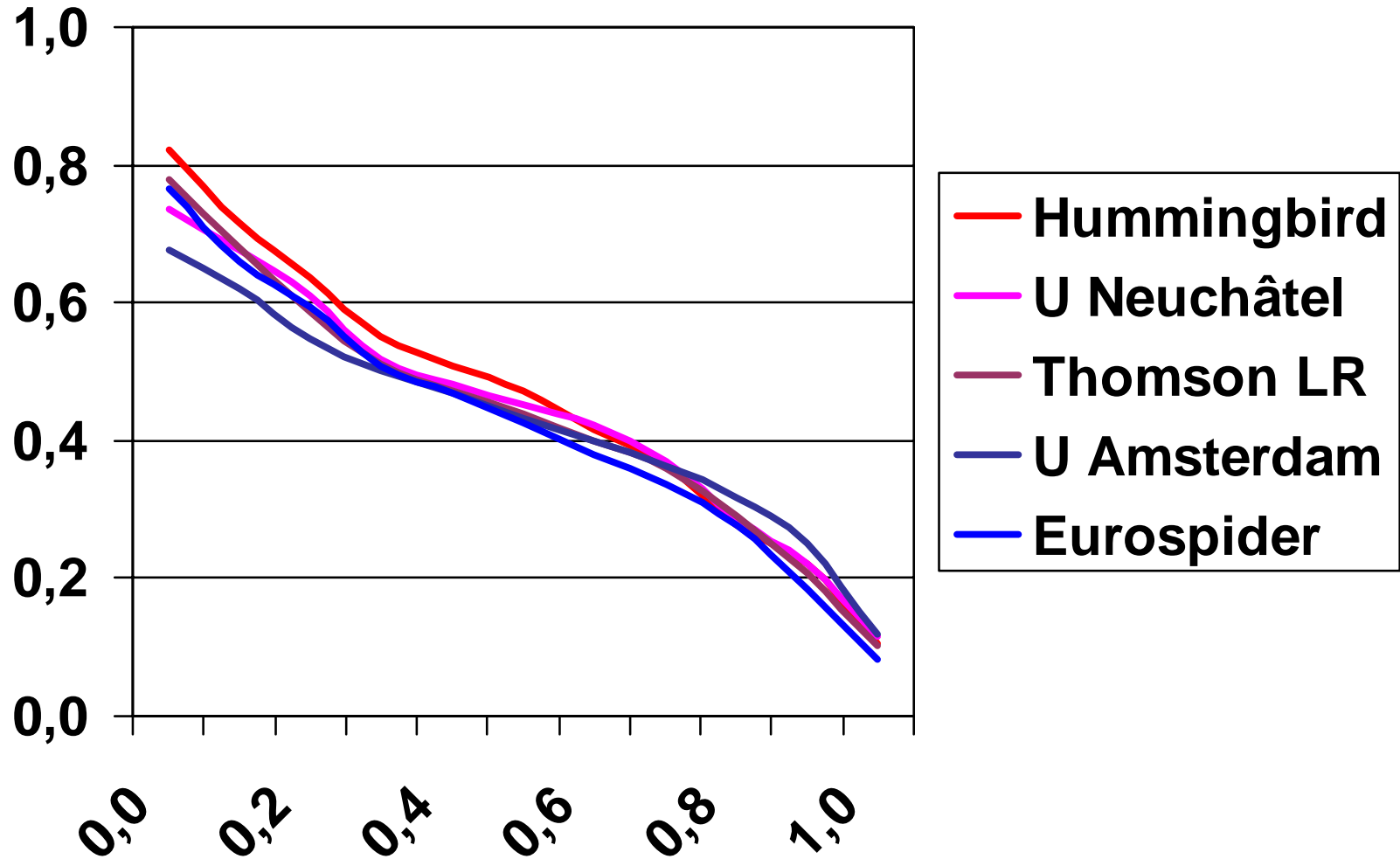
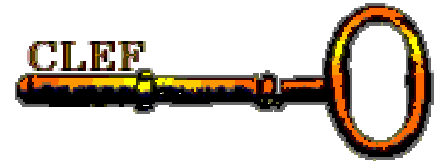
Dutch



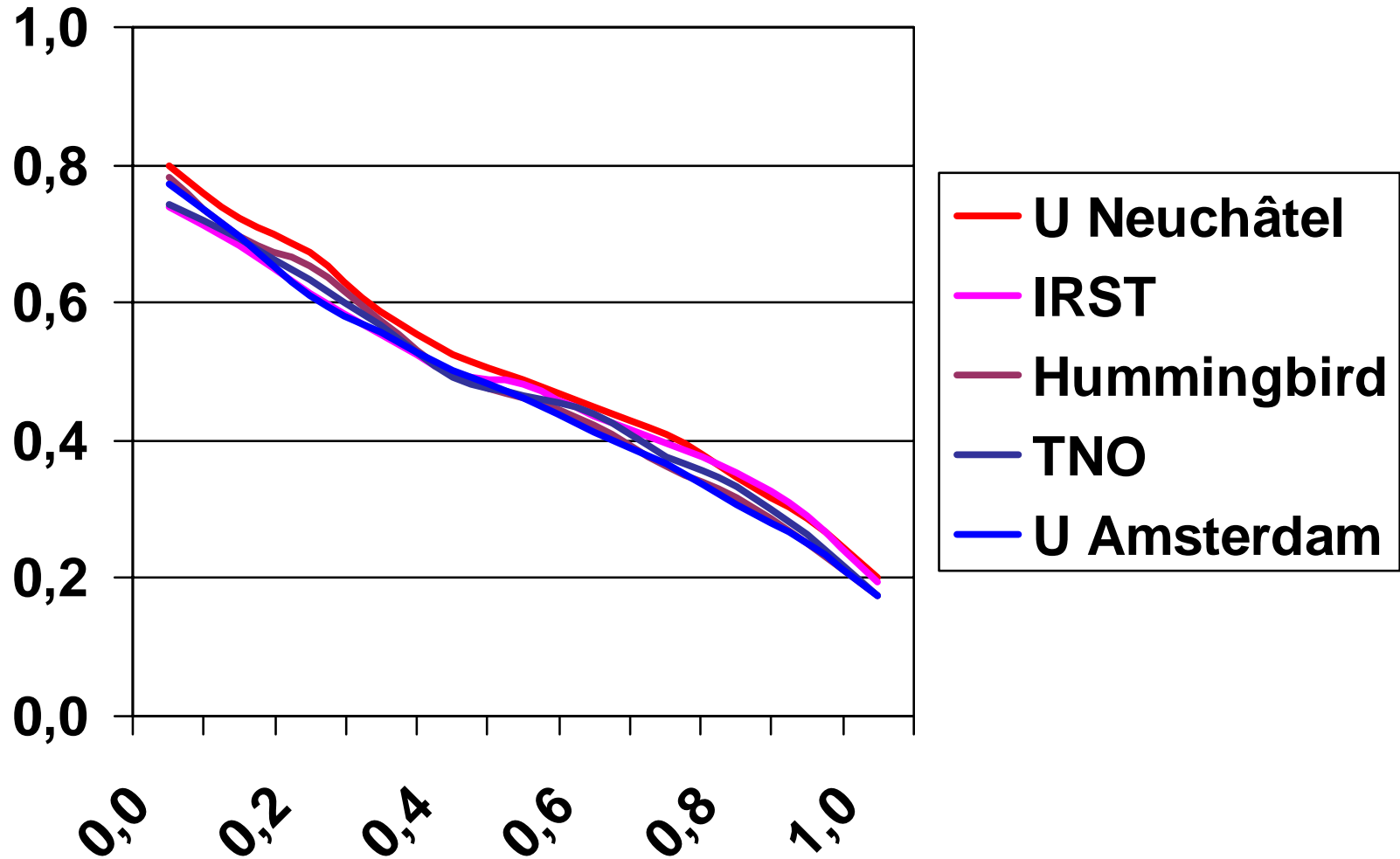
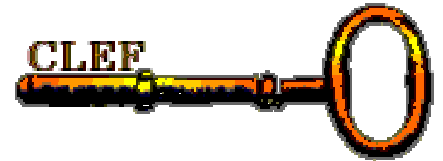
French



German



Italian



Spanish

