Information mining at FUB

Claudio Carpineto

Fondazione Ugo Bordoni

Information Mining area at FUB: who we are

Researchers
Gianni Amati
Andrea Bernardini
Claudio Carpineto (head)
Raffaele Nicolussi
Gianni Romano

PhD students
Giuseppe Amodeo
Carla Michini

Scholarship holders
Edgardo Ambrosi
Massimiliano D'Amico
Giovanni Stilo

Master thesis student
Raffaella Toscano

Main scientific achievements

New probabilistic ranking methods

DEVIATION FROM RANDOMNESS

Excellent results at TREC and CLEF since 1999

INFORMATION THEORETIC QUERY EXPANSION

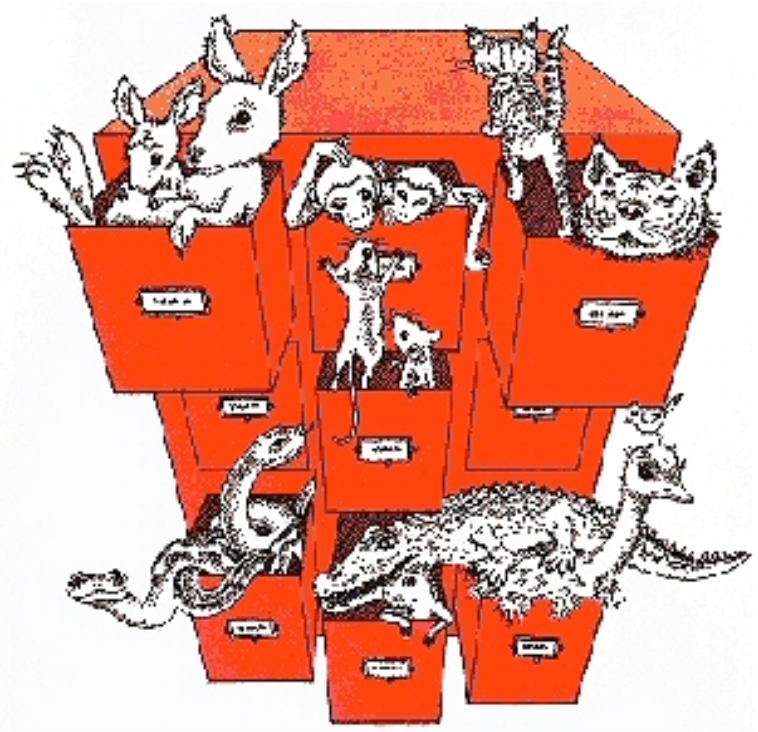
Information retrieval and mining with CONCEPT LATTICES

Concept Data Analysis book (2004)

Developments of Terrier, an open source search engine

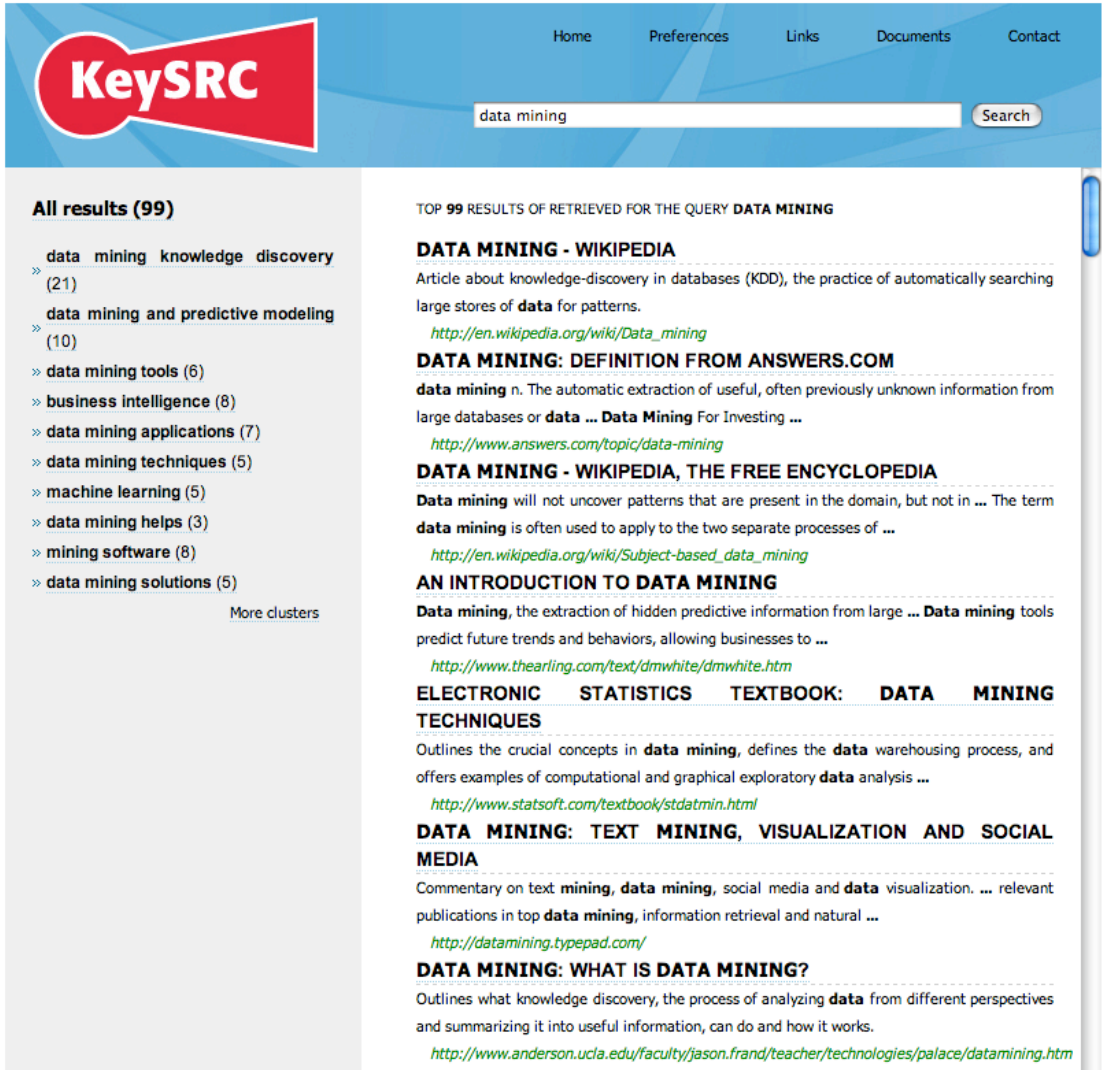
(in collaboration with University of Glasgow and Matrixware)

Intelligent web search with KeySRC



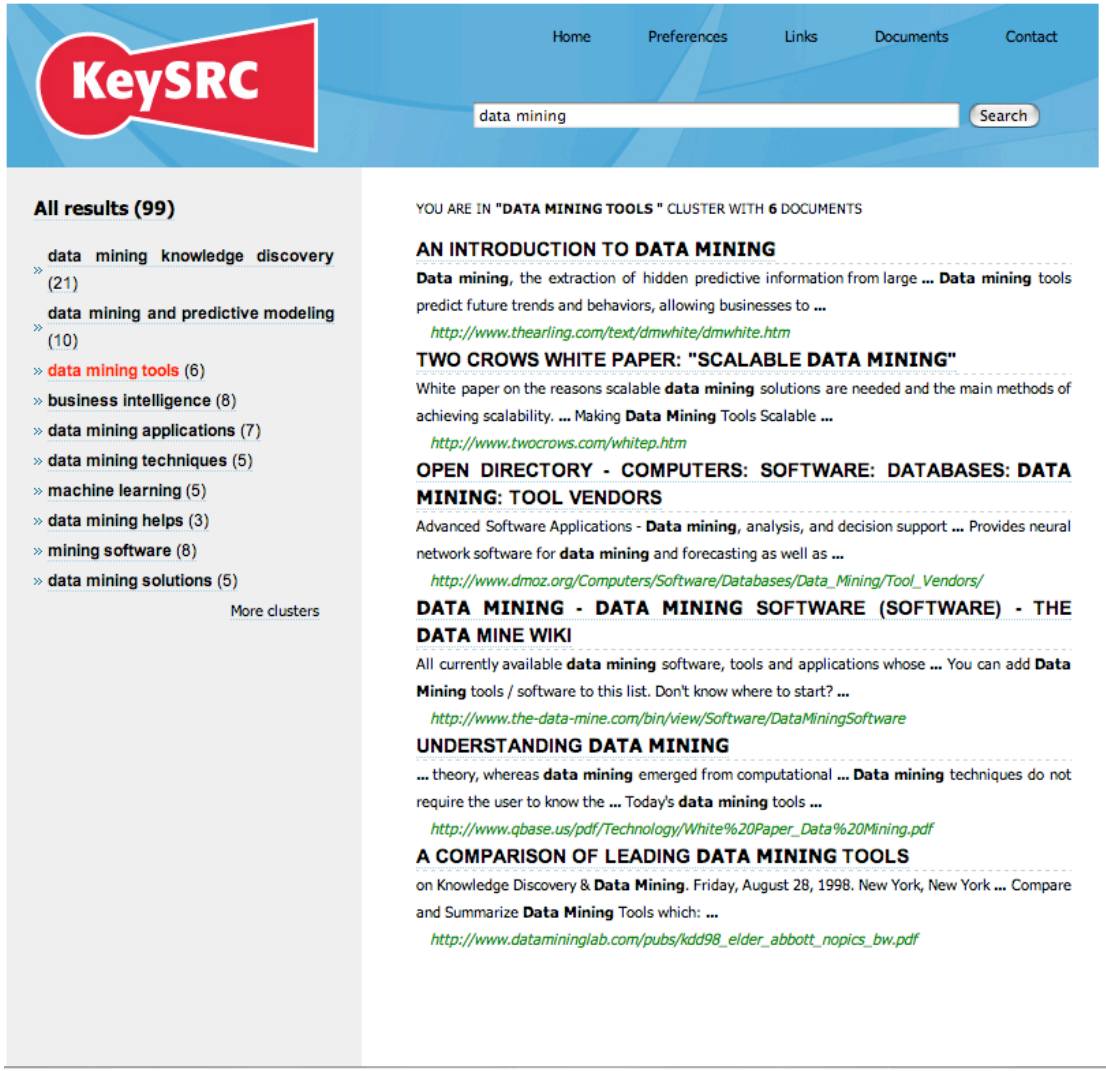
Keyphrase-based Search Results Clustering (1)

http://keysrc.fub.it



Keyphrase-based Search Results Clustering (2)

http://keysrc.fub.it



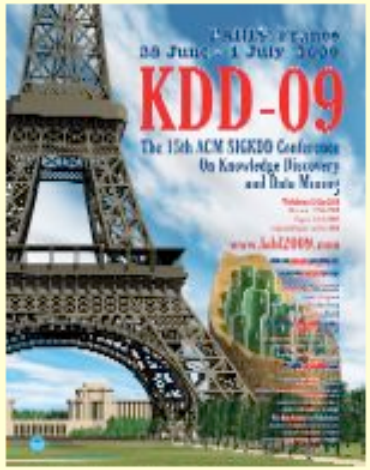
KeySRC on iPhone

Data mining for CRM (sales intelligence)

orange™

Server time : 2009-04-21 15:42

KDD Cup 2009

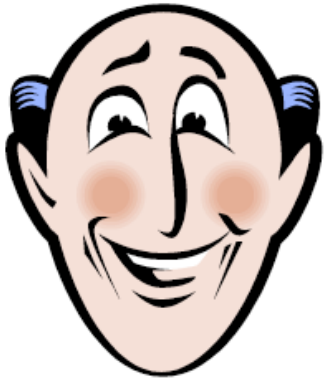


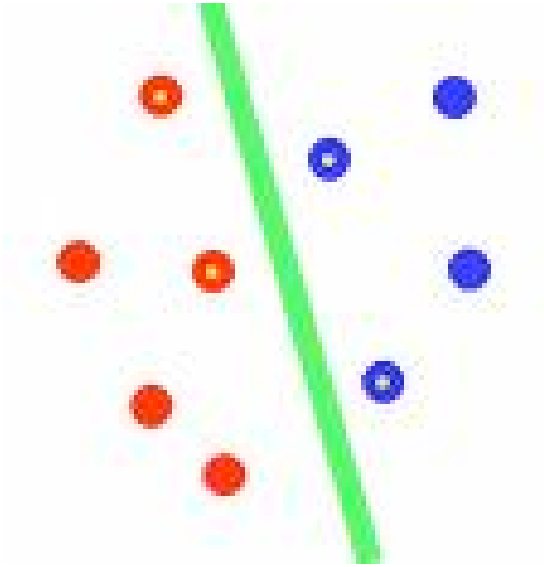
Index | Data | Instructions | Forum | Evaluation | Submit | Results | Prizes | Workshop

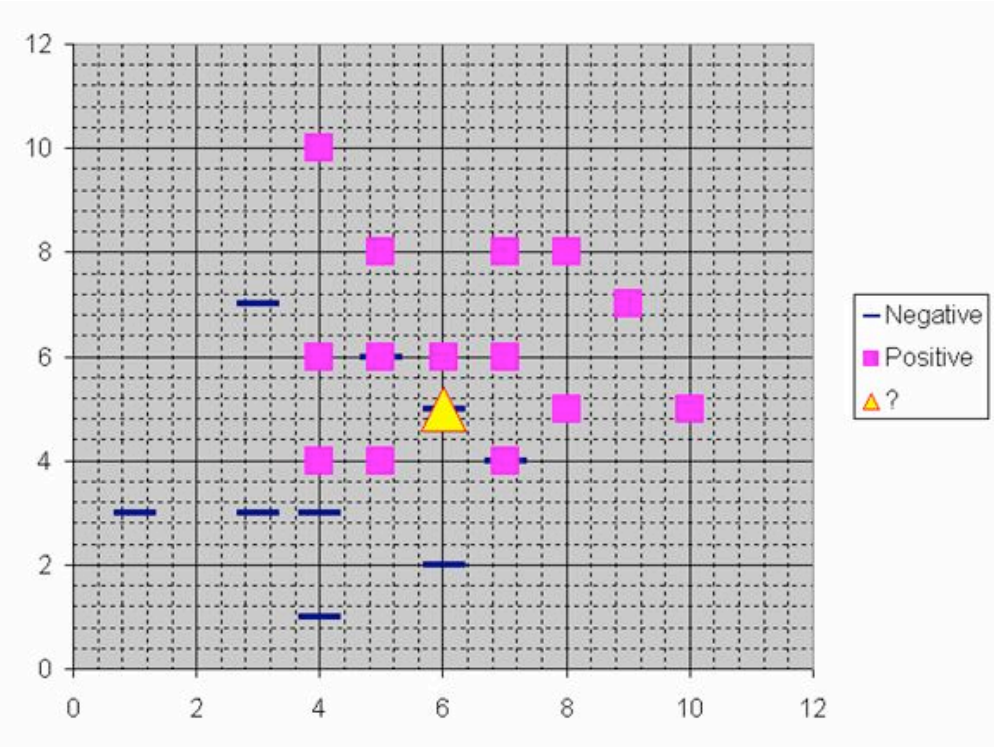
- *Churn*
- *Appetency*
- *Up-selling*
- ……

?

Data mining in theory







Data mining in practice

- High data *dimensionality* (millions of records, tens of thousands of attributes)
- *Missing* and *noisy* values
- Different value *scales*
- Different value *ranges* in training and test
- *Unbalanced* data set

Thank you

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