

University of St Andrews
School of Mathematical and Computational Sciences
Computer Science Division

**Annual Open Lecture Course
1998**

**Information Retrieval: its models, its
evaluation and its multimedia applications**

*Wednesday 15th and Thursday 16th April 1998
Lecture Theatre B, Mathematics Institute,
University of St Andrews.*

Speakers:
Professor C J van Rijsbergen
Computing Science Department, University of Glasgow
and
Professor Yves Chiaramella
CLIPS-IMAG, Grenoble

The Speakers

Keith van Rijsbergen is Head of the Computing Science, Mathematics and Statistics Planning Unit at Glasgow University. He has been involved in Information Retrieval research since the late sixties. He currently manages an IR group within the CS department whose major concerns are

- supporting information seeking and improving system usability representing and managing content of text, images, video, speech
- building new theoretical models to capture relevance of objects
- implementing and evaluating models in experimental settings
- including users and interaction in the evaluation

He is the author of a popular book on IR: [//www.dcs.gla.ac.uk/ir/](http://www.dcs.gla.ac.uk/ir/)

Yves Chiaramella is Professor in Computer Science at the Université Joseph Fourier, Grenoble. He is Head of CLIPS-IMAG, a Computer Science Laboratory dedicated to Man-Machine Communication. He has also been involved in Information Retrieval for 15 years, and currently manages a group on Multimedia Information Retrieval within the CLIPS Laboratory. His main interests in the field are:

- indexing models for text, images and video
- indexing models for complex, structured objects
- retrieval model and systems for multimedia data
- logic-based approaches for IR models

The Course

Information Retrieval aims to provide techniques and tools to allow fast, effective and efficient access to large amounts of stored information. The need for these has become more apparent with the growth of the world wide web. To sustain this growth and enhance it, many of the early and more recent ideas in information retrieval are applicable. This course will give an introduction to some of the earlier basic research ideas as well as to some of the more recent and pressing problems. The lectures will span the theory, experiment and practice of IR.

Venue

All lectures will be held in Lecture Theatre B in the Mathematics Institute, University of St Andrews. Tea and coffee will be served in our Honours Laboratory.

Programme

Wednesday, 15th April

- 10.00-11.00 Introduction
CT van Rijsbergen
- 11.00-11.15 *Tea/coffee*
- 11.20-12.30 Two basic models: vector space and probabilistic
CT van Rijsbergen
- 12.30-14.00 *Lunch*
- 14.00-15.30 Indexing multimedia information: signal indexing vs symbolic indexing
Y Chiamarella
- 15.30-15.45 *Tea/coffee*
- 15.45-16.45 Indexing multimedia information: the case of structured objects
Y Chiamarella

Thursday, 16th April

- 10.00-11.00 Cluster-based retrieval and visualisation
CJ van Rijsbergen
- 11.00-11.15 *Tea/coffee*
- 11.20-12.30 Interactive Retrieval: querying vs browsing hypermedia bases
Y Chiamarella
- 12.30-14.00 *Lunch*
- 14.00-15.30 Advanced models and evaluation
CJ van Rijsbergen
- 15.30-15.45 *Tea/coffee*
- 15.45-16.45 Multimedia Information Retrieval: the evaluation issue
Y Chiamarella