2003 Paper 7 Question 11

Information Retrieval

- (a) Why are query terms and document terms weighted in modern information retrieval systems? Describe a method for weighting terms. [6 marks]
- (b) Describe two challenges in recognising arbitrary person names in unrestricted text. [4 marks]
- (c) Describe how bootstrapping can be used in information retrieval. [5 marks]
- (d) Which of the following information retrieval tasks is bootstrapping best suited for, and why?
 - (i) Recognition of person names.
 - (*ii*) Association of a person with his or her job title.
 - (*iii*) Identification of arbitrary relationship between two people, as in the following examples:

"John did not fire Jim"	\rightarrow	Relationship: Boss Person 1: John Person 2: Jim
"James and Jill visited their parents"	\longrightarrow	Relationship: Sibling Person 1: James Person 2: Jill
		[5 marks]