

## C017067 : MAJOR COMPUTER SCIENCE

KEY WORD : INFORMATION RETRIEVAL/VECTOR SPACE MODEL

SAROCH MOULANONT : INFORMATION RETRIEVAL USING VECTOR SPACE MODEL

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The objective of this thesis is to study the mechanism of information retrieval based on vector space model concept and develop computer program, bibliographic database, for experimental evaluation. This thesis composes of the background research, theory related to the researches such as background of text management, text database, application of text management, conventional and advance information retrieval. The computer programs are written in C language. The design considers the basic components of database system that are data model, data definition and retrieval mechanism. The result of program testing can be summarized as follows :- the computational similarity between the vector of documents and query compare with manual calculation are correct. The documents can be arranged by descending order of corresponding similarity with the query. The total results of the information retrieval system show that the indexing of documents representation is very significant for the efficiency of retrieval system.