

Chapter VI

Building Databases and the Cocitation Counts Generation System Using Microsoft Excel Program in Visual Basics

ABSTRACT

This chapter shows another alternative approach of building citation database and retrieval system using the spreadsheet program, Microsoft Excel. McIntyre built a custom database based on the Clothing and Textile Research Journal (CTRJ), covering from 1990 to 2006 as part of his master's thesis. The database includes all the author citations, citations sorted by article, and the top cited author's cocitation frequencies.

INTRODUCTION

The previous chapter introduced an approach of building custom databases using Foxbase database management systems. This chapter introduces an alternative approach using a spreadsheet program, Microsoft Excel. McIntire (McIntire, 2007) invented this approach as part of his Master's thesis at the University of Columbia. His thesis is based on the International Textile and Apparel Association (ITAA)

publication database. The motive for the design of database and cocitation counts system was simply that the ISI citation index files do not include the specific journal in the textile and apparel area.

DATABASE DESIGN

McIntire completed his Master's thesis in the department of textile and apparel management. He built a custom database based on the Clothing and Textile Research Journal (CTRJ), covering from 1990 to 2006. The database includes all the author citations, citations sorted by article, and the top cited author's cocitation frequencies. Using the chronological list of Clothing and Textile Research Journal (CTRJ), each article published between 1990-2006 was viewed as a PDF document. Each article was assigned a six digit number: the first four digits representing the publication year, the fifth and sixth digits representing the article number for that year beginning with one.

Example: the article Dickerson, K.G. & Dalecki, M. *Apparel Manufacturers' Perceptions of Supplier-Retailer Relationships* would be assigned the article number 1990-10, since it was published in 1990 and is the tenth article published in CTRJ that year.

A custom database is created containing the names of all cited authors and when and where they were cited. Within an Excel spreadsheet, a column is titled with the appropriate article number. The rows are labeled alphabetically with author names. Each time an author is listed in the reference section of the article, it is counted in the article column.

Figure 1. Example for article 1990-10

	1990-10	1990-11	1990-12	1990-13
Anderson, G	1			1
Caddel, K	1			1
Chaffin, D	1	4		
Channing, R			1	
Chao, E	1		1	
D.G. Fleming	1			1

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