

MIS Doctoral Dissertations: 1973-1980

**By: Scott Hamilton
Blake Ives
Gordon B. Davis**

Editor's Note

A major objective of the MIS Quarterly is the communication of knowledge concerning the MIS field. Dissertations are a major source of MIS research, but a search process is necessary to obtain a list of MIS dissertations. Such a list can be valuable to both academic and business researchers in order to:

- 1. provide an awareness of current MIS doctoral research,*
- 2. allow a non-specific search procedure that may trigger further investigation of research, and*
- 3. allow a check on other search procedures.*

To meet this need, the MIS Quarterly will publish a yearly listing of MIS dissertation titles. A comprehensive bibliography of dissertations on MIS topics for 1973-1980 is presented in order to provide a starting point for this information resource. Henceforth, only dissertation references not appearing here will be added. Additions to the bibliography are invited.

Introduction

Doctoral dissertations in MIS represent an important source of information because of the unique research reported, and because of the comprehensive literature review on the research topic typically included in a dissertation. Currently, there are about fifty to seventy-five dissertations produced each year that can be classified as MIS research. However, dissemination of these MIS dissertations is limited. As a result, most MIS dissertation research is not readily available to the academic and practitioner communities. This article explains how to access this resource and identifies MIS-related dissertations published during the 1973-1980 time period.

Searching for MIS Doctoral Dissertations

The search process for locating dissertations on a topic of interest may employ a manual search procedure with library reference materials, a computer search, or a combination of both.

Locating MIS dissertations using library reference materials

There are two reference sources for a manual in-library search. The references are available in most large libraries.

- 1. Comprehensive Dissertation Index (CDI)* is an annual index of almost all American and some European dissertations [1]. There are separate index groupings for major subject areas (e.g., engineering, mathematics and science, business and economics). The *CDI* includes an author index plus a *keyword-in-title index* in which all dissertations having a keyword in the title are listed under that keyword. For instance, a dissertation entitled "Management Information Systems" will appear in the keyword-in-title index under "management," "information," and "systems."
- 2. Dissertation Abstracts International (DAI)* is a monthly publication of

abstracts of dissertations submitted to University Microfilms International [2]. There is also a keyword-in-title index for the month. Most abstracts are published within three to nine months after the dissertation is completed.

In a manual search, the *CDI* is searched using a set of keywords expected to appear in the titles. Dissertations having titles that appear relevant are selected for further investigation. This is done by looking up in *DAI* the abstract of each dissertation selected for investigation. The abstracts are usually about 500 to 1,000 words, and provide a short description of the research topic, research methodology, and research findings. A dissertation that appears to be of interest may be obtained most easily by ordering either a microform (microfilm or microfiche) or a hard copy from University Microfilms.

Address: University Microfilms International
Dissertation Copies
300 North Zeeb Road
Ann Arbor, Michigan 48106

Telephone: 800-521-3042

Current

Costs:	Academic	Other
Microfilm or Microfiche	\$ 9.00	\$13.00
Hard Copy	\$18.00	\$24.00

Shipping and handling costs are not included in the above charges. Orders shipped outside the U.S. and Canada are slightly higher. Copies may be ordered by telephone and charged to major credit cards.

Locating MIS dissertations using computer search services

The listings of dissertation titles in the *Comprehensive Dissertation Index* may be searched using DATRIX II, a computer-based search device. DATRIX II is available through University Microfilms International and some commercial retrieval services. Keywords

expected to appear in titles are specified along with AND and OR combinations of the words. The DATRIX II service provides a list of dissertations having the keyword(s) in the title. One caveat is not to search for simple generic words such as "system" or "systems." The search keys should generally include a more specific term along with a generic word. For example, "information" and "system" might be specified. The cost of a DATRIX II search in 1980 is \$15.00 for up to 150 titles and \$.10 per title thereafter.

Locating MIS dissertations using a mixed search strategy

Our experience suggests that a manual search of *CDI*, though slower, will discover more relevant titles than the DATRIX II computerized keyword-in-title search. This is because the investigator defines additional keywords as the manual search proceeds. Variations of keywords not specified in advance also emerge in a manual search. For example, dissertations concerned with "computers" may employ "computerized," "computer based," "computer-based," or "computer system" in the title. Since *CDI* lists keywords in alphabetical order, variations of keywords are easily examined in a manual search. By way of contrast, all keywords must be specified in advance for DATRIX II.

A useful strategy is to use the DATRIX II computer search as an initial search procedure. Then, if a more complete search is desired, the computer search is supplemented by a manual search using the keyword-in-title *CDI* index.

A Search to Obtain MIS Dissertations

A search was undertaken to locate and analyze MIS related doctoral dissertations written in the United States and Canada between 1973 and 1980. The 430 dissertations identified by the search procedure are listed in the Appendix.

Criteria for inclusion of a dissertation as MIS-related research

A dissertation was considered to be MIS-related research if it was a systematic investigation of the

development, operation, use, and/or impact of an information system in an organizational environment. This definition excludes dissertations that deal primarily with technology *per se* rather than in the organizational context of MIS. Examples of areas excluded are computational algorithms, physical data structures, and systems software.

The search procedure

Two researchers independently reviewed the *CDI* keyword-in-title index for the 1973 to December 1980 time period. The keywords employed in the search were "computer," "data," "decision," "information," "management" and their variations. The *CDI* keyword-in-title index was manually searched under major categories or topic areas considered relevant to MIS (*i.e.*, engineering, mathematics and science, library and information sciences, mass communications, psychology, and business and economics). Areas not considered particularly relevant to MIS were omitted (*e.g.*, chemistry, philosophy, and religion).

The reviewers examined the dissertation titles appearing under the keywords and rated the degree to which they constituted research in the MIS discipline. A four point rating scale was used: "3" meant the reviewer considered the dissertation as definitely within the MIS discipline, "2" meant probably, "1" meant possibly, and "0" meant the reviewer considered the dissertation not to be within the MIS discipline. Dissertation quality was not considered in these ratings.

The two rating scores were merged and the abstracts of dissertations receiving a single score of three, or a total score of four to six, were retrieved from *DAI* and examined further. Dissertations receiving a total score of two or three were re-examined based on information in the abstract and in some cases were included. Otherwise, dissertations with a total score of three or less were dropped from the pool of MIS dissertations.

Evaluating the Search Procedure

There are three issues in testing and measuring the extent to which the search procedure correctly and completely identified the subset of MIS dissertations from the set of all dissertations. These issues and the results of the test procedures are summarized below and in Figure 1.

Comparison with keywords suggested by MIS experts

A survey was sent to thirty-one MIS faculty members drawn from twenty-five universities in the United States and Canada. These "MIS experts" were asked to provide keywords that they would use in conducting a search of this type. Table 1 contains the roots of keywords most frequently mentioned by the twenty-two (71 percent) who responded. Five of the six keywords appearing most frequently in the experts' list were those employed in the search procedure. Only the word "system" was frequently mentioned by the experts but not included in the search procedure.

Issue	Test Procedure
1. Are keywords used in the search the most appropriate?	A comparison with keywords suggested by MIS faculty experts.
2. Do keywords used in the search fail to identify a significant number of MIS dissertations?	The extent to which a sample of MIS dissertations suggested by MIS faculty experts would have been identified by the keywords used in the search.
3. Do the criteria used in the study correspond to MIS faculty criteria for MIS dissertations?	The extent to which a sample of MIS dissertations suggested by MIS faculty experts were included in the set selected by the procedures of this research and classified as MIS using the criteria of this study.

Figure 1. Issues in Evaluating the Search Procedure

Table 1. Keywords Suggested by MIS Experts

Rank	Keywords	Number of Experts Suggesting Keyword
1	Information *	18
2	Decision *	17
3	System	17
4	Manage *	15
5	Data *	14
6	Computer *	13
7	Design	10
8	Analysis	8
9	Support	7
10	Application	5

*Five keywords employed in the search procedure

However, the experts typically suggested "system" as a second word, e.g., information system. This was subsequently verified in the dissertation titles suggested by the experts as MIS-related. For those titles, the word "system" always appeared with one or more of the keywords used in the search procedure.

Keywords in dissertations suggested by MIS experts

The experts were also asked to provide the authors and titles for several MIS-related dissertations. They were encouraged to identify works that had not received widespread attention in the MIS literature. Fifty-three dissertations were suggested by the experts, and the titles were examined to determine if the five keywords used in the search procedure would have identified the suggested dissertations. Table 2 summarizes the results. Of the fifty-three dissertations, forty-six (87 percent) would have been identified by the five keywords used in the search procedure. The seven dissertations that would not have been identified did not contain any of the ten keywords

most frequently suggested by the MIS experts. Furthermore, five of the seven dissertations not identified would not have been classified as MIS research by the authors of this study.

Inclusion of dissertations suggested by MIS experts

The final validation step also used the dissertations suggested by MIS experts. Twenty-nine were from the 1973 to 1979 time period.¹ The set of dissertations identified by the search procedure for 1973-1979 was compared to the set of MIS dissertations for 1973-1979 suggested by the experts. The results, summarized in Table 3, indicate 23 (79 percent) of the twenty-nine dissertations suggested by MIS experts were *identified* by the search procedure. Applying the search criteria for classification of MIS dissertations, twenty-one (72 percent) of the twenty-nine suggested by the MIS experts were *classified* as MIS dissertations.

¹Identification of the MIS-related dissertations from the 1980 period was made after the validation steps were taken. Hence, only the 1973 to 1979 time period is included.

Table 2. Analysis of Keyword Performance in Identifying Fifty-three MIS-Related Dissertations Suggested by Experts

Analysis	Number of Dissertations	Percent
Dissertations identified by the five keywords used in the search procedure	46	87
Dissertations not identified by the five keywords (nor by any of the ten keywords most frequently suggested by the MIS experts)	7	13

Table 3. Analysis of Search Procedure Performance in Identifying and Classifying Twenty-nine MIS Dissertations Suggested by MIS experts

	Classified by the search procedure as:		Total
	MIS	Not MIS	
Identified by search procedure	18	5	23 (79%)
Not identified by search procedure	3	3	6 (21%)
Total	21 (72%)	8 (28%)	29*

*Only twenty-nine of the fifty-three dissertations suggested by MIS experts were in the 1973-1979 time period. Identification of the MIS-related dissertations from the 1980 period was made after the validation steps were taken.

The overall results of the tests are supportive of the research procedures and criteria used in developing the list of MIS dissertations. However, they demonstrate that there are MIS dissertations which will not be identified by the keyword search. In addition, the tests show that there are dissertations considered by some to be MIS which are not included in the classification of MIS dissertations used here.

Characteristics of MIS Dissertations Located by the Search Procedure

The frequency count of keywords appearing in the 430 MIS-related dissertation titles for 1973 to 1980 reflects those used in the original

keyword search. The eight most frequently appearing keywords, and the percentage of the 430 MIS dissertations with the keyword appearing in the title, are shown in Table 4. These counts include other words with the same root as the keyword shown. For example, the count given for the word "manage" also includes instances of the words "manager," "management," and so forth.

Based on the information in each dissertation abstract, the empirical research methodologies employed are characterized in Table 5. The classification utilizes Van Horn's taxonomy of MIS research methods [3]. Studies of a non-empirical nature, characterized by a conceptual or non-data research strategy, are included as a separate category. Overall, MIS doctoral research primarily consisted of field studies (30.9 percent) and non-empirical studies (33.0 percent).

Table 4. Frequency of Keywords Appearing in MIS-Related Dissertation Titles for the 1973-1980 Time Period

Rank	Keyword	Frequency Count	Percent of Titles*
1	System	275	64%
2	Information	231	54%
3	Computer	150	35%
4	Manage	136	32%
5	Data	79	18%
6	Design	78	18%
7	Decision	71	17%
8	Analysis	61	14%

* Multiple occurrences of the same keyword in a title are only counted once.

Table 5. Research Methodologies Employed in MIS-Related Dissertations

Research Methodology	1973-1979	
	Count	Percent
Empirical research	62	14.4%
Case study	9	2.1%
Field test	133	30.9%
Field study	54	12.6%
Laboratory study	142	33.0%
Non-empirical research	30	7.0%
Unknown methodology		
Total	430	100%

References

- [1] *Comprehensive Dissertation Index*. University Microfilms International, Ann Arbor, Michigan 48106.
- [2] *Dissertation Abstracts International*. University Microfilms International, Ann Arbor, Michigan 48106.
- [3] Van Horn, R. L. "Empirical Studies of Management Information Systems," *Database*, Volume 5, Number 2, 3, 4, Winter 1973, pp. 172-180.

Appendix *

- Abeson, A. R. **The Development and Evaluation of an Information System for State Special Education Administration**, Columbia University, 1973 (74-06386).
- Agarwal, S. P. **The Role of Accounting in Computer-Based Information Systems**, University of Florida, 1973 (74-09530).
- Ahn, S. K. **Executive Administrators' Perceptions of Management Information Systems in Higher Education**, Florida State University, 1978 (79-17012).
- Akamatsu, M. **Optimization of Management Science/Operations Research Decision Model Implementation**, West Virginia University, 1979 (80-12890).
- Akoka, J. **Design Issues in Distributed Management Information Systems**, Massachusetts Institute of Technology, 1978.
- Alavi, M. **A Study of MIS Design Variables: Decision Styles and Decision Aiding Strategy**, Ohio State University, 1978 (79-08105).
- Alloway, R. **Temporary Management Systems: Application of a Contingency Theory to the Creation of Computer Based Information Systems**, Harvard University, 1976 (77-06277).
- Alter, S. L. **A Study of Computer Aided Decision-Making in Organizations**, Massachusetts Institute of Technology, 1975.

- Altuner H. J. **The Effects of Different Information Types and Forms on Consumer Information Processing and Choice in Durable and Non-durable Purchases**, University of North Carolina, Chapel Hill, 1979 (80-05009).
- Amador, J. A. **Information Formats and Decision Performance: An Experimental Investigation**, University of Florida, 1977 (77-29222).
- Arad, M. **A Management Information System for Environmental Service Divisions**, University of Iowa, 1978 (79-02870).
- Arseven, S. M. **A System to Monitor and Control the Development and Documentation of a Computer Programming Project**, Texas A & M University, 1975 (75-25078).
- Awad, E. M. **An Empirical Study of the Theory of Work Adjustments in a Large Data Processing Environment**, University of Kentucky, 1975 (77-23502).
- Baker, J. W. **A Hierarchical Design and Modeling Methodology for Data Base Systems**, University of Texas, Austin, 1978 (79-10928).
- Barber, R. **Response Time, Operator Productivity and Job Satisfaction**, New York University, 1979.
- Barkin, S. R. **An Investigation into Some Factors Affecting Information System Utilization**, University of Minnesota, 1974 (75-12038).
- Baron, R. **An Investigation of the Basic Variables of Interactive Computer-Terminal Design**, University of Massachusetts, 1974 (75-05989).
- Beck, L. L. **Automatic Design of Structured Data Processing Systems**, Southern Methodist University, 1975 (76-09932).
- Bell, D. L. **Decision Style and Task Components Among Computer Programmers and Systems Analysts**, Claremont Graduate School, 1978 (78-14827).
- Bell, J. C. **Computer Based Management Information Systems in Medium Size Public School Districts**, New Mexico State University, 1975 (76-11170).
- Belsha, E., Jr. **An Organizational Plan for Cooperative Data Processing**, Saint Louis University, 1979 (80-10711).
- Benbasat, I. **An Experimental Evaluation of the Effects of Information System and Decision Making Characteristics on Decision Effectiveness**, University of Minnesota, 1974

*The dissertation number for ordering copies from University Microfilms International is in parentheses when the number was identified. The dissertation titles contained here are published with the permission of University Microfilms International.

- (75-12040).
- Bennet, P. L. **A Comparison of Programs and Programming Times Between Secondary Students Employing Time-Sharing and Batch Processing Computers for Problem-Solving**, Columbia University, 1974 (75-06458).
- Bennett, M. C. **A Survey of Computer Application and Usage Problems in Library Processes of Large University Libraries in the United States**, Iowa State University, 1979 (80-00115).
- Bento, A. M. **The Information Systems Contingency Theory: A Proposal and Test in California Cities**, University of California, Los Angeles, 1980 (80-23274).
- Bergeron, R. D. **The System for Systems Development**, Brown University, 1973 (75-12472).
- Berman, W. J. **Automatic Generation of Database Definitions for an Information Retrieval System**, Stanford University, 1976 (76-12979).
- Berry, R. I. **Implementation of Computer Technology Within Individual School Districts and Regional Data Processing Centers**, Northern Arizona University, 1979 (79-19019).
- Bierly, F. L. **A Needs Assessment of Data Processing Employees and Employers Relating to an Adult Vocational Education Program in Information Processing at the Bloomsburg State College**, Pennsylvania State University, 1979 (80-05978).
- Biggs, W. D. **An Investigation of the Impact of Varying Amounts of Information on Decisions and Performance in a Business Game**, Pennsylvania State University, 1974 (75-09756).
- Boland, R. J. **Protocols of Interaction in the Design of Information Systems: An Evaluation of the Role of the Systems Analyst in Determining Information Requirements**, Case Western Reserve University, 1976 (77-11962).
- Bo-Linn, C. **Implementation of a Computer-Based Management Information System: An Analysis of Organizational Change**, University of Houston, 1980 (80-26994).
- Boockholdt, J. L. **A Management Oriented Design Methodology for Distributed Business Systems Utilizing a Ring Network of Minicomputers**, University of Alabama, 1977 (78-19163).
- Bostrom, R. P. **Conflict Handling and Power in the Redesign Process: A Field Study Investigation of the Relationship Between Management Information Systems Users and System Maintenance Personnel**, University of Minnesota, 1978 (79-11976).
- Boulton, W. R. **The Nature and Format of Director Information Flows: An Exploratory Study**, Harvard University, 1977 (78-03792).
- Bower, R., Jr. **An Automated Accounting and Information System for Independent Insurance Agents**, Texas A & M University, 1974 (75-15014).
- Boy, C. D., Jr. **Development and Implementation of a Management Information System for a College of Education**, University of Tennessee, 1978 (78-23309).
- Brock, G. W. **The United States Computer Industry, 1954-1973**, Harvard University, 1973.
- Brooks, R. E. **A Model of Human Cognitive Behavior in Writing Code for Computer Programs**, Carnegie-Mellon University, 1975 (76-00626).
- Bush, R. R. **Influence of Cognitive Style in a Methodology for Data Base Design**, University of Texas, Austin, 1975 (75-16650).
- Bybee, C. R. **Facilitating Decision-Making Through Information Presentation Formats**, University of Wisconsin, Madison, 1978 (78-17099).
- Cale, E. G., Jr. **Implementing Standard Computer-Based Application Programs in Multiple Site Organizations**, Harvard University, 1979 (79-20976).
- Campbell, R. J. **A Study of the Proclivity of Property-Casualty Insurance Executives to Utilize New Information Processing and Planning Techniques**, Indiana University, 1976 (77-14582).
- Carlisle, J. H. **Man-Computer Interactive Problem Solving-Relationships Between User Characteristics and Interface Complexity**, Yale University, 1974 (74-25725).
- Carlson, D. M. **Producing an Organizational Plan for Computerized Information System Development**, University of Michigan, 1975 (75-29187).
- Caro, D. H. J. **A Strategic Planning Approach to Integrated Databases for Emergency Medical Services: The Case of Burn Care**, University of Minnesota, 1978 (79-11983).

- Carothers, S. G. **The Effect of Personality Characteristics on Information Selection, Utilization and Decision-Making**, North Texas State University, 1972 (73-12909).
- Caton, J. M. **The Integrated Computer Database as a Medium for the Management and Access of Textual Information**, Stanford University, 1978 (78-08771).
- Cerullo, M. J. **An Evaluation of Services and Satisfaction of EDP Service Bureau Clients and the Implications to the Accounting Profession**, Louisiana State University and Agricultural and Mechanical College, 1971 (72-03473).
- Cerveny, R. P. **The Effects of a Computerized Management Information System on Managerial Behavior and Attitudes: A Comparative Study of Corporate Risk Manager Subscribers and Non-Subscribers**, University of Texas, Austin, 1976 (76-26608).
- Champine, G. A. **A Total Life Cycle Cost Model for a Computer System**, University of Minnesota, 1975 (76-00432).
- Chandler, J. S. **A Methodology for Identifying Information System Design Requirements Based on the Assessment of Multiple User Performance Criteria**, Ohio State University, 1977 (78-05824).
- Cheney, P. H. **Organizational Characteristics and Information Systems: An Investigation**, University of Minnesota, 1977 (78-02649).
- Chiang, T. C. **A File Structure for Large Databases**, University of California, Berkeley, 1973.
- Christmore, P. C. **A Computer Simulation Model Utilizing Selected Financial Planning Variables**, University of Oklahoma, 1975 (75-21791).
- Chrysler, E. **Some Basic Determinants of Computer Programming Performance**, University of Southern California, 1975 (76-05235).
- Chu, Y. **Adaptive Allocation of Decision Making Responsibility Between Human and Computer in Multi-Task Situations**, University of Illinois, Urbana-Champaign, 1978 (79-13409).
- Clarke, B. J. **An Intelligent Management Information System as a Test of a Formal Accounting Theory**, University of British Columbia, Canada, 1975.
- Clemons, E. K. **Design of a User Interface for a Relational Data Base**, Cornell University, 1976 (77-18864).
- Clowes, K. W. **The Impact of Computers on Management: An Empirical Study of Computer Impact Perceptions in Relation to Organizational, Situational, and Information System Characteristics**, Stanford University, 1979 (80-06304).
- Coats, P. K. **Simulating an Electronic Fund Transfer System: The Development, Construction and Application of a Model for Planning and Decision-Making by Bankers**, University of Nebraska, Lincoln, 1978 (79-01925).
- Cohen, E. I. **A Finite Domain-Testing Strategy for Computer Program Testing**, Ohio State University, 1978 (78-19569).
- Conway, L. G. Jr. **Church Information Systems: An Empirical Investigation of the Effectiveness of Church Information Systems in Providing Data for Decisions**, Louisiana State University and Agricultural and Mechanical College, 1975 (76-00134).
- Copeland, J. A. **An Exploratory Data Analysis System Based Upon a Model of Human Decision-Making**, Vanderbilt University, 1980 (80-18867).
- Coppus, S. A. **An Investigation into Computer Programming as an Academic Discipline Which Provides Education for Both Sides of the Brain**, University of Massachusetts, 1978 (78-16249).
- Corasick, M. J. **Protection of Computer-Based Information: A Study of the Means of Protection and the Legal Framework in Which Such Protection is Undertaken**, Lehigh University, 1974 (75-10364).
- Cotton, I. W. **Measurement of Interactive Computing: Methodology and Application**, George Washington University, 1979 (79-17823).
- Courbon, J. C. P. **Economic Evaluation of Information Systems in the Management of Operations**, University of Texas, Austin, 1974 (75-04343).
- Copper, R. D. **The Economics of Computing - A Study of the Production of Computing Services**, University of Pittsburgh, 1974 (75-06353).
- Curless, J. C. **A Comparative Analysis Between 1969 and 1973 of the Minimum Educational Requirements Necessary for Entry into Thirteen Types of Electronic Data Processing Positions**, Northern Illinois University, 1973 (74-02791).
- D'Angelo, A. P. **A Complementary Management**

- Information System Useful to Customer Service Intensive Industries**, Indiana University, 1974 (75-09502).
- Das, K. S. **A Scheduling Methodology for Computer Operations**, University of Michigan, 1977 (78-04676).
- Daser, S. A. **The Adoption of an Organizational Innovation: The Case of a Computerized Marketing Information System in the Pharmaceutical Industry**, University of North Carolina, Chapel Hill, 1975 (76-20010).
- Davis, C. **The Right to Privacy and Medical Information Data Banks**, University of Southern California, 1977.
- Deitel, H. M. **Structured Software Development**, Boston University, 1980 (80-24183).
- Demb, A. B. **The Organizational Impacts of Computer-Based Information Systems: An Organizational Development Approach and Case Study of Centralized Systems in Higher Education**, Harvard University, 1975 (76-10559).
- Derbez, L. E. **Econometric Modeling and Decision Support Systems: An Applied Exercise for a Mexican Firm**, Iowa State University, 1980 (80-12956).
- Dery, D. **The Bureaucratic Organization of Information Technology: Computers, Information Systems and Welfare Management**, University of California, Berkeley, 1977 (77-31333).
- Desai, S. R. **Frequency of Information in Management Information Systems**, Ohio State University, 1978 (79-08135).
- Deutsch, D. R. **Modeling and Measurement Techniques for the Evaluation of Design Alternatives in the Implementation of Data Base Management Software**, University of Maryland, 1978.
- Devine, E. A. **Management Information Systems Education: The University's Role**, Louisiana State University and Agricultural and Mechanical College, 1973 (74-07218).
- Dickmeyer, N. C. **Computer Aided University Budget Policy Making**, Stanford University, 1979 (80-01902).
- Diran, K. M. **Human Acceptance of Management Information Systems in Colleges and Universities: A Case Study**, Columbia University, 1977 (77-13017).
- Dirksen, C. J., Jr. **The Organization Impact of Selected Information System Variables: Search for a Hypothesis**, University of Oregon, 1974 (74-26529).
- Dirmsmith, M. W. **Attitudes of Selected Decision Makers Towards Information Provided by the Financial Accounting System**, Northwestern University, 1975 (75-29612).
- Dobbs, D. H. **System Design of a Physician Information System**, University of Missouri, Columbia, 1972 (73-07025).
- Doerr, B. **A Computer-Based Management Information System for a Humanistic Undergraduate Elementary Teacher Education Program**, University of Florida, 1975 (76-12067).
- Dominick, W. D. **Models for Graphically-Enhanced Data Base Management System Design**, Northwestern University, 1975 (75-29614).
- Douglas, D. E. **Management Information Systems for the Construction Industry**, University of Arkansas, 1973 (73-27384).
- Driscoll, J. R. **Towards the Design and Implementation of a Unified Data Base Management System**, University of Kansas, 1977 (78-09346).
- Drott, M. C., Jr. **Models and Measurements of User Information Needs in the Selection of Systems for the Selective Dissemination of Information**, University of Michigan, 1973 (74-03613).
- Dumas, P. J. **Management Information Systems: A Dialectic Theory and the Evaluation Issue**, University of Texas, Austin, 1978 (79-10953).
- Dutta, B. K. **Competitive Analysis for Strategic Decision Making: A Metagame Theoretic Interactive Modeling Approach**, University of Pittsburgh, 1977 (78-09564).
- Earnar, W. A., Jr. **An Assessment of Organizational Elements that Affect the Introduction of a Computer-Based Simulation into Some Organizational Decision Processes**, Harvard University, 1973 (73-27538).
- El-Masri, R. A. **On the Design, Use, and Integration of Data Models**, Stanford University, 1980 (80-24649).
- English, W. E. **A Study to Develop a Data Base for an Educational Management Information System for Schools in Ohio**, Ohio University, 1972 (73-12628).
- Epstein, B. J. **The Multidimensional Value of Information**, University of Pittsburgh, 1979 (80-07926).
- Etnyre, V. A. **Information Services, Information**

- Storage and Retrieval Systems**, University of Illinois, Urbana-Champaign, 1972 (73-09923).
- Evans, W. K. **Management Information Systems in Higher Education: The Man Machine Interface**, University of Michigan, 1972 (73-06824).
- Everest, G. C. **Managing Corporate Data Resources: Objectives and a Conceptual Model of Database Management Systems**, University of Pennsylvania, 1974 (74-22836).
- Fane, G. R. **The Development and Evaluation of a Uniform Hospital Cost Accounting Information System**, University of Florida, 1974 (74-27872).
- Farah, B. N. **On the Measurement and Estimation of Computer Center Performance**, Ohio State University, 1977 (78-05836).
- Farrand, W. A. **Information Display in Interactive Design**, University of California, Los Angeles, 1973 (73-28692).
- Fenichel, C. H. **Online Information Retrieval: Identification of Measures that Discriminate Among Users with Different Levels and Types of Experience**, Drexel University, 1979 (79-26997).
- Fernandez, L. **Projections of Information-Technology Employment to the Year 2000**, American University, 1978 (78-06919).
- Flory, S. M. **An Inquiry into Selected Problems of Auditing Computer-Based Accounting Systems**, Louisiana State University and Agricultural and Mechanical College, 1976 (76-28804).
- Franz, C. R. **Contingency Factors Affecting the User Involvement Role in the Design of Successful Information Systems**, University of Nebraska, Lincoln, 1979 (80-01065).
- Fuerst, W. L. **An Investigation into the Factors that may Affect the Perceived Utilization of Computer-Based Decision Support Systems**, Texas Tech University, 1979 (80-03215).
- Gambill, C. H. **A Conceptual Framework for a Comprehensive Labor Market Information System**, University of Missouri, Columbia, 1978 (79-03903).
- Gardner, D. E. **A Conceptual Methodology for Selecting a Methodology Appropriate to the Evaluation of Computer-Based Management Information Systems in Higher Education**, Indiana University, 1974 (75-05554).
- Gattie, M. W. **The Administration of Management Information Systems in Higher Education**, Indiana University, 1973 (74-02657).
- Geary, W. T. **An Examination of Expert-Client Interaction in Management Information Systems Design Activities Using a Role Theoretic Approach**, Northwestern University, 1976 (77-10028).
- Gehrmann, P. R. **A Study to Identify Contingent Functional Relationships Between an Organization's External Environment and Its Design of Effective Management Information Systems**, University of Nebraska, Lincoln, 1976 (77-14653).
- George, R. E. **The Senior Manager's Self Reported Use of Information Sources for Selected Decision Types**, University of Waterloo, Canada, 1980.
- Gilman, R. **Cost Benefit Analysis in the Design of Management Decision Systems: The Time Value of Information**, University of Southern California, 1973 (74-14439).
- Gingras, L. **The Psychology of the Design of Information Systems**, University of California, Los Angeles, 1977 (77-23862).
- Ginzberg, M. J. **A Process Approach to Management Science Implementation**, Massachusetts Institute of Technology, 1975.
- Goldberg, M. **A Methodology for the Evaluation of Information Systems Usage**, Northwestern University, 1973 (73-30593).
- Goodfriend, S. T. **The Introduction and Utilization of a Computer Based Program Monitoring System in a Comprehensive Child Welfare Agency**, University of California, Berkeley, 1979 (80-0259).
- Gottschalk, D. D. **The Remote Computing Services Industry in the U.S.: A Profile of Its Technology, Structure, Regulation, Competition and Economic Outlook**, Golden Gate University, 1978 (78-19157).
- Grapa, E. **Characterization of a Distributed Data Base System**, University of Illinois, Urbana-Champaign, 1976 (77-09005).
- Greenfield, R. H. **Characteristics of Clinical Data Base Files and Their Usage**, Washington University, 1976 (77-16728).
- Greenwald, H. I. **An Analysis of Electronic Data Processing Applications in Selected School Systems in Illinois**, Loyola University, Chicago, 1969 (73-29482).
- Gremillion, L. L., III. **Managing the Organizational Learning Process in Implementing Computer-Based Systems**, Harvard University, 1979 (79-20978).
- Grochow, J. M. **Cognitive Style as a Factor in**

- the Use of Interactive Computer Systems for Decision Support**, Massachusetts Institute of Technology, 1974.
- Grose, K. E. **Internal Financial Management Information Systems in Major Public Universities**, West Virginia University, 1978 (79-00867).
- Grudnitski, G. M. **A Methodology for the Design of Decision-Maker Oriented Information Systems**, University of Massachusetts, 1975 (76-05337).
- Gutentag, L. M. **Acceptance of Computer-Based Medical Consultant Systems: A Study of Physician Attitudes**, Harvard University, 1979 (79-14075).
- Guthrie, G. R. **A Minicomputer Based Interactive Graphics Computer System with Illustrative Application to Structural Data Analysis**, Purdue University, 1978 (79-14902).
- Hackathorn, R. D. **Activity Analysis: A Methodology for the Discrete Process Modeling of Information Systems in Organizations, with an Application to a Governmental Database**, University of California, Irvine, 1976 (76-29261).
- Haider, S. W. **An Investigation of the Advantages of Using a Man-Computer Interactive Mode for Scheduling Job Shops**, Purdue University, 1976 (77-07460).
- Haj Manoochehri, G. **An Experimental Evaluation of the Effects of Psychological Types and Problem Types on Preference for Some Management Information System Characteristics and Decision-Making Performance**, Louisiana State University and Agricultural and Mechanical College, 1978 (79-11571).
- Hall, R. E. **An Evaluation Model for Computer-Based Educational Management Information Systems**, University of New Mexico, 1973 (73-27794).
- Hallam, S. F. **An Investigation of the Objectives and Constraints of Electronic Data Processing Departments**, University of Iowa, 1973 (74-16631).
- Halstead, W. R. **Development and Implementation of a Generalized Interactive Management Information and Analysis System**, Florida State University, 1973 (74-17993).
- Harbeck, D. J. **An Automated Data Processing System in Admissions at the University of Northern Colorado**, University of Northern Colorado, 1972 (73-00274).
- Harris, D. R. **GOLDA, A Graphical On-Line System for Data Analysis**, Ohio State University, 1972 (73-02014).
- Harris, J. A. E. **An Analysis of the Effects of a Computer-Based Vocational Information System on Selected Aspects of Vocational Planning**, Northern Illinois University, 1972 (73-04171).
- Harrison, H. R. **The Development of a Computerized Management Information System for the Retrieval and Analysis of Program Costs in a Unified District**, University of Southern California, 1973 (74-00918).
- Hartman, S. K. **The Value of Critical Thinking in Computer-Assisted Systems Analysis**, University of California, Los Angeles, 1977 (77-19633).
- Haseman, W. D. **Framework for a Planning Information System**, Purdue University, 1975 (76-00535).
- Heckerman, D. A. **A Computer Program Development Time Estimation Model and a System Development Time Estimation Methodology**, University of Cincinnati, 1976 (77-00677).
- Heskiaoff, H. **Computers and Productivity in Production Operations and Administrative Functions in Manufacturing Industries in the United States**, Columbia University, 1977 (77-27858).
- Hill, E., Jr. **A Comparative Study of Very Large Data Bases**, George Washington University, 1977 (77-17210).
- Ho, S. F. **A Systematic Approach to the Development and Validation of Software for Critical Applications**, University of California, Berkeley, 1978 (79-14639).
- Ho, T. I. M. **Toward a Formal Theory for the Requirements Statement, Analysis, and Design of Information Systems**, Purdue University, 1974 (75-17212).
- Hoffer, J. A. **A Clustering Approach to the Generation of Subfiles for the Design of a Computer Data Base**, Cornell University, 1975 (75-08595).
- Holsapple, C. W. **Framework for a Generalized Intelligent Decision Support System**, Purdue University, 1977 (78-03234).
- Honerkamp, D. L. **Effect of Perceived Quality of Information on Perceived Planning and Control Effectiveness in Large Business Organizations**, New York University, 1976

- (76-15741).
- Honig, W. L. **A Model of Data Structures Commonly Used in Programming Languages and Data Base Management Systems**, Northwestern University, 1975.
- Hoover, E. D. **A Methodology for Free Format Systems Design**, University of Southwestern Louisiana, 1979 (80-02713).
- Hoplin, H. P. **Implications of the Introduction of an ADP Management Information System into a Government Organization**, George Washington University, 1975 (75-19650).
- Howie, E. **Marketing of Information Services**, University of Pittsburgh, 1977 (78-01893).
- Hruby, D. J. **An Evaluation of Data Processing Curriculum Objectives in Illinois Community Colleges**, Northern Illinois University, 1980 (80-20663).
- Hudson, F. W., Jr. **An Interactive Computer Graphics Approach for Land Planning**, University of Texas, Austin, 1979 (79-23305).
- Hunter, J. W. **An Evaluation of a General Information System for Management**, Mississippi State University, 1972 (73-00154).
- Ishimoto, S. **Design and Development of a Generalized Computer-Based Admission Data Processing Model: Proposed for the Japanese College Admission System**, Indiana University, 1972 (73-06979).
- Ivanov, K. **Quality-Control of Information: On the Concept of Accuracy of Information in Data-Banks and in Management Information Systems**, Royal Institute of Technology, Sweden, 1972.
- Ives, B. **Enriching the Person-Machine Interface: An Investigation of the Relationship between Perceived Task Variables and Outcomes for Alternative Data Entry Settings and Technologies**, University of Minnesota, 1978 (79-12028).
- Jackson, A. **A Study of and a Methodology for the Design and Optimization of Information Systems for Education**, Claremont Graduate School, 1977 (78-06382).
- Jacobs, N. W. **An Investigation of the Impacts of Cognitive Style and Report Formats on the Effective Use of Computer Output Management Control Reports by Managers**, University of Santa Clara, 1978 (78-18595).
- Jeffers, H. A., Jr. **A Quality Information Systems Analysis**, Colorado State University, 1973 (73-19885).
- Jenkins, A. M. **An Investigation of Some Management Information Systems Design Variables and Decision Making Performance: A Simulation Experiment**, University of Minnesota, 1977 (77-19003).
- Jepsen, K. J. **Computer Decision Making in Student Financial Aid Administration**, Indiana University, 1974 (75-05562).
- Jin, K. G. **Behavioral Considerations in Management Information Systems Change**, George Washington University, 1976 (76-15581).
- Johnson, M. F. **Job Specifications for the Computer Production Operations and Skill-Related Data Processing Job Cluster**, Temple University, 1976 (76-29340).
- Jones, W. O. **The Determination of Future User Requirements for an Existing Management Information System Using a Delphic Methodology**, University of Georgia, 1978 (79-01651).
- Juergens, H. F. **On the Selection and Generation of Process Groupings and File Consolidations for Information Processing System Design**, University of Minnesota, 1974 (75-12090).
- Jump, C. O. **The Development of a Management Information System for Area Vocational Education Centers in Michigan as Demonstrated at the Calhoun Area Vocational Center**, Michigan State University, 1976 (77-05832).
- Kahn, B. K. **A Structured Logical Database Design Methodology**, University of Michigan, 1979 (79-25171).
- Kahng, Y. **A Comprehensive Systems Approach for Implementing a Computer-Based Integrated Information System within a University**, Ball State University, 1976 (77-15314).
- Kaiser, K. M. **Information and Analyst Liaison Characteristics and Their Relation to User Attitudes**, University of Pittsburgh, 1979 (80-04783).
- Kaplan, R. S. **A Generalized Access Path Model for Relational, Hierarchical, and Network Data Base Systems**, Northwestern University, 1976 (77-10047).
- Kaske, N. K. **Effectiveness of Library Operations: A Management Information Systems Approach and Application**, University of Oklahoma, 1973 (74-4019).
- Keen, P. G. W. **The Implications of Cognitive**

- Style for Individual Decision-Making**, Harvard University, 1973 (74-09036).
- Kelly, M. R. **Planning International Data Communication Systems: An Integrated Approach**, Southern Methodist University, 1979 (79-20362).
- Kelso, C. R. **The Development and Validation of a Decision-Making Information System in a Multi-Campus Junior College Setting**, University of Texas, Austin, 1972 (73-00465).
- Kennedy, G. W. **Innovation Adoption: The Case of Computers in Georgia's Local Governments**, University of Georgia, 1980 (80-29133).
- Kersnick, M. A. **Report Abstractness and Cognitive Style Differences - Their Effect on Perceived Complexity and Task Performance**, University of Pennsylvania, 1979 (79-28147).
- Kheir, A. M. M. **A Conceptual Model of Computer Based Information Systems Requirements for a Governmental Department in a Developing Country**, George Washington University, 1979 (79-17825).
- Kim, S. W. **High-Level Data Language Design: An Investigation of Human Factors in Database Query**, University of Minnesota, 1979 (80-06632).
- Kim, Y. J. **A Technical Services Management Information System: Methodology for Forecasting and Strategy Development**, University of Oklahoma, 1974 (75-06529).
- Kimmle, M. **Design of Management Information Systems: An Approach and Case Study**, Harvard University, 1972 (73-10503).
- King, G. N. **A Conceptual Design of a Computer-Based Management Information System**, University of Texas, Austin, 1972 (73-00471).
- King, J. J. **A Specialized Language for Coordinating the Use of Computer Models in Natural Resource Management**, Colorado State University, 1980 (80-28748).
- King, J. L. **Centralization vs. Decentralization of Computing: An Empirical Analysis in City Governments**, University of California, Irvine, 1977 (78-08223).
- King, T. E. **The Information Content of Accounting Reports as a Criterion for Selecting from Among Alternative Accounting Methods**, University of California, Los Angeles, 1973 (74-11540).
- Kinne, H. C., Jr. **The Influence of Format on Decision Parameters: An Experimental Investigation**, University of Texas, Dallas, 1979 (79-19844).
- Kirkpatrick, D. C. **General Systems Theory as a Framework for Management Information Systems**, University of Colorado, 1976 (76-23635).
- Kittler, M. A. R. **Towards Certification of Computer Programs**, University of Toronto, Canada, 1975.
- Kleid, N. A. **Factors Affecting the Usefulness of Flowcharts and Other Formats for Computer Programs**, Rensselaer Polytechnic Institute, 1978 (79-13077).
- Klooster, D. H. **Design of the Mankato Area Vocational-Technical Institute Student Information System**, University of Northern Colorado, 1978 (79-02834).
- Kluczny, R. M. **An Information Retrieval and Analysis System as an Inquiry Interface**, Arizona State University, 1979 (79-19185).
- Kolasheski, R. F. **An Investigation into the Feasibility of Using the Leontief Input-Output Model in the Quantitative Management of Computer Programming**, University of Georgia, 1976 (77-04135).
- Kole, M. A. **A Behavioral Approach to Implementation of Computer Based Management Information Systems**, University of Massachusetts, 1979 (79-12695).
- Kolster, R. D. **The Impact of Computers on Decision Making: A Behavioral Study**, University of Nebraska, Lincoln, 1974 (75-03435).
- Konsynski, B. R., Jr. **A Model of Computer-Aided Definition and Analysis of Information System Requirements**, Purdue University, 1976 (77-15432).
- Kozar, K. A. **Decision Making in a Simulated Environment: A Comparative Analysis of Computer Data Display Media**, University of Minnesota, 1972 (73-01033).
- Kraprayoon, P. **An Application of Computer Technology and Graphics Display Techniques for Resource Allocation Planning for Twelve Educational Districts in Thailand**, Harvard University, 1974 (75-04903).
- Krell, R. A. **Development and Analysis of a Model of the Cost Impact of Privacy Safeguards in a Computer Network**, George Washington University, 1977 (77-29518).
- Kroeber, D. W. **An Empirical Study of the Current State of Information Systems Evolu-**

- tion, University of Georgia, 1976 (77-12396).
- Lafuente, J. M. **The Specification of Data-Directed Interactive User-Computer Dialogues**, Cornell University, 1977 (77-28381).
- Lam, H. **A Generalized System for Application Program Conversion to Account for Database Semantic Changes - Design and Prototype Implementation**, University of Florida, 1979 (80-02872).
- LaMendola, W. F. **A Study of Preliminary Considerations in Management Information System Development for the General Social Service Agency**, University of Minnesota, 1976 (76-27906).
- Lane, L. L. **Management Information System for Southern Pine Beetle Research**, University of Arkansas, 1976 (76-26383).
- Larcker, D. F. **Strategic Decision Processes and Implications for the Design of Accounting Information Systems**, University of Kansas, 1979 (79-25852).
- Lawrence, D. B. **The Quantification of the Value of Information in Decision Making**, Iowa State University, 1979 (80-40238).
- Leach, G. **A Proposed Data Management System Design for Higher Education**, University of Colorado, 1973 (73-23274).
- Lee, M. J. **An Analysis and Evaluation of Structured Decision Systems**, Ohio State University, 1978 (79-08169).
- Leveson, N. G. **Applying Behavioral Abstraction to Information System Design and Integrity**, University of California, Los Angeles, 1980 (80-16007).
- Levin, K. D. **Organizing Distributed Data Bases in Computer Networks**, University of Pennsylvania, 1974 (75-02754).
- Levin, S. L. **A Model of the Problem Selection Process in the Design of Computer Programs**, University of California, Irvine, 1977 (78-01117).
- Levy, D. L. **A Planning Model for the Financing of Information Centers**, Purdue University, 1978 (79-05743).
- Ligon, H. H. **A Comparative Analysis of Design Concepts for Large Scale Information Systems**, Texas A & M University, 1976 (77-12572).
- Lo, D. H. **A Systematic Approach to Logical Database Design**, University of Florida, 1979 (80-02873).
- Lochovsky, F. H. **Data Base Management System User Performance**, University of Toronto, Canada, 1978.
- Lohman, G. M. **Optimal Data Storage and Organization in Computerized Information Processing Systems Subject to Failures**, Cornell University, 1977 (77-18379).
- Love, L. T. **Relating Individual Differences in Computer Programming Performance to Human Information Processing Abilities**, University of Washington, 1977.
- Lower, E. V. III. **Information Systems Technology in the Manufacturing Environment: An Exploratory Study of Computing Applications**, New York University, 1980 (80-27355).
- Lowry, P. E. **Evaluation of a Contingency Job Design Model in an Information Technology Environment**, Arizona State University, 1976 (76-18396).
- Lowy, H. D. **Design of a Distributed Data Base Management System for a Homogeneous Distributed Computer Network**, State University of New York, Stony Brook, 1976 (77-00242).
- Lu, D. H. **An Examination of the Ex Ante and Ex Post Predictability of Computer Programming Time Estimate Models**, University of Minnesota, 1973 (73-29417).
- Luzi, A. D. **Selected Performance Information Systems and Small Group Problem Solving Behavior**, University of Kansas, 1978 (78-24872).
- Lyles, M. A. **The Perceptions of Upper Level Management of Organizational Problem Formulation**, University of Pittsburgh, 1977 (78-09565).
- Lyon, R. L. **A Determination of the Relative Importance of Tasks Performed in Selected Entry Level Data Processing Jobs in Texas with Curricular Implications**, Texas A & M University, 1973 (74-01029).
- Lyons, L. P., Jr. **A Study to Develop a Computer-Based State-Wide, Integrated System for the Reporting of Teacher-Personnel Data**, University of Houston, 1972 (73-08926).
- Mader, S. C., Jr. **Investment Valuation of Computer-Based Information Systems**, University of Pennsylvania, 1973 (73-24187).
- Mahajan, V. **Computers in Hospitals: A Diffusion Study**, University of Texas, Austin, 1975 (75-24909).
- Mahapatra, S. **Dynamics for Establishing the**

- Flows of Information Needed for Effective Planning Administration and Control**, Case Western Reserve University, 1974 (74-16503).
- Maish, A. M. **Computer-Based Information Systems and Their Users: A Survey**, American University, 1976 (77-09817).
- Malmstrom, R. S. **Competencies in Entry-Level Data Processing Occupations for Two-Year Community College Graduates**, Rutgers University, The State University of New Jersey, New Brunswick, 1980 (80-23613).
- Malvey, M. P. **Management Information Systems and the Organization of Complexity: A Hospital Installs a Seemingly Simple System**, University of California, Berkeley, 1977 (78-12676).
- Mandell, S. L. **Multinational Corporate Computer-Based Information Systems and the Parent-Subsidiary Interface**, George Washington University, 1975 (75-19651).
- Mann, R. L. **A Study of the Development of Computer Based Management Information Systems in Institutions of Higher Education**, University of Illinois, Urbana-Champaign, 1974 (74-14577).
- Mansour, A. H. **An Empirical Investigation of the Determinants of Computer-Based Information System Performance**, University of Georgia, 1978 (79-01667).
- Mansur, O. **On the Design of an Information Retrieval System**, Case Western Reserve University, 1977 (77-31002).
- March, S. T., Jr. **Models of Storage Structures and the Design of Database Records Based Upon a User Characterization**, Cornell University, 1978 (78-17867).
- Marcotte, A. **Decision System Performance: An Experimental Investigation of Computer-Aided Management Decision-Making**, Massachusetts Institute of Technology, 1974.
- Markus, M. L. **Understanding Information System Use in Organizations: A Theoretical Explanation**, Case Western Reserve University, 1979 (80-01466).
- Martin, E. G. **A Study of New York State Administrators' Assessment of the Sufficiency, Timeliness and Helpfulness of Computer Data Systems in Decision-Making**, St. John's University, 1980 (80-22912).
- Martin, R. K. **Management Information Systems In Higher Education: Case Studies at Three Universities**, University of Washington, 1973 (74-02218).
- McAllister, D. W. **An Experimental Investigation of the Contingency Model of Decision Strategy Selection**, University of Washington, 1978 (79-24480).
- McClurg, R. B. **An Exploratory Pilot Study of the Development and Utilization of Computer Assisted Management Information Systems in Public Higher Education**, Iowa State University, 1977 (77-16966).
- McGeehan, T. J. **Information Service Planning and Evaluation: A Goal Programming Approach**, Rutgers University, The State University of New Jersey, New Brunswick, 1978 (79-01293).
- McKneely, E. A. **The Extent of Utilization and Range of Costs Associated with Computer Use in Selected Universities, Four-Year Colleges, and Junior Colleges in Seven Southeastern States**, Georgia State University, 1980 (80-27107).
- Meadowcroft, R. T. **A Logical Characterization of Energy Data Relationships to Support Decision-Making**, Lehigh University, 1980 (80-09725).
- Mekly, L. J. **A Systems Approach to Software Design Representation**, Northwestern University, 1979 (80-07395).
- Mellor, W. L. **Computer-Based Educational Information Systems: An Analysis of the Relationship Between Innovation, Environment and Patterns of System Use**, University of Oregon, 1975 (76-00955).
- Merrill, H. W., Jr. **A Comprehensive Approach to the Performance Measurement and Evaluation of Large-Scale Computer Systems**, University of Illinois, Urbana-Champaign, 1979 (80-04228).
- Merritt, E. T. **Guidelines for the Introduction and Implementation of Computerized Data Processing in the School Districts of Connecticut**, Columbia University, 1973 (73-25164).
- Miller, J. R. C. **Investigation of Perceived Management Information Needs - Towards the Rational Computerization of Small Construction Firms**, George Washington University, 1978 (79-25316).
- Miller, R. D., Sr. **Multidimensional Processes of Implementing Computer-Based Models**, Harvard University, 1974 (74-25562).
- Mitoma, M. F. **Optimal Data Base Schema Design**, University of Michigan, 1975

- (75-29292).
- Molina, C. E. **A Model of the Process of Adaptation to Computer Systems and Information Technology in Law Enforcement Organizations**, Michigan State University, 1978 (78-15154).
- Moller, T. **Distributed Computer Systems: Problems and Trends**, University of California, Berkeley, 1977 (78-12699).
- Monterroso, J. P. **The Integrative Role of Information Systems for Agri-Business**, Harvard University, 1977 (77-22784).
- Moore, D. L. **Computer Decision-Assisting Models for Purchasing**, Arizona State University, 1973 (73-13092).
- Morgenstern, M. L. **Automated Design and Optimization of Management Information Systems**, Massachusetts Institute of Technology, 1977.
- Moroh, M. **The Self-Organizing Data Base**, Polytechnic Institute of New York, 1979 (79-20793).
- Morrow, J. T. **A Study of the Concept, Structure, and Operational and Economic Feasibility of Modular Information Subsystem Development for Manufacturing Firms**, University of Santa Clara, 1973 (74-09261).
- Motiwalla, J. **User Based Performance Evaluation of Simulation Languages**, University of Wisconsin, Madison, 1977 (77-23723).
- Munro, M. C. **A Comparison of the Decision Analysis and Data Analysis Methods for Determining Management's Information Needs**, University of Minnesota, 1975 (75-21071).
- Munyan, R. J. **Identification and Analysis of Top Management's Tasks Regarding Computer Information Systems**, Temple University, 1977 (78-12286).
- Murray, T. J. **An Organizational Strategic Intelligence MIS: An Interactive Hierarchical Delphi Approach**, University of Massachusetts, 1973 (74-08571).
- Musgrave, G. L. **Economies of Scale in Computer Centers**, Michigan State University, 1973 (73-20382).
- Narasimhan, R. **An Investigation of Management Science Use as a Change Process and Implications for Implementation**, University of Minnesota, 1976 (77-12840).
- Naumann, J. D. **Energy Conservation Potential Estimation: A Database and Model**, University of Minnesota, 1977 (78-09712).
- Neiheisel, S. R. **The Roles and Impact of Computer Technology in the Administration of Selected Institutions of Higher Education**, Ohio State University, 1979 (80-01792).
- Nelson, J. A. **Dialectic Information Systems: A Methodology for Planning and Decision Making**, University of Pittsburgh, 1973 (74-01454).
- Nestman, C. H. **Patterns of Organization and Structure of Administrative Computing Centers in Four-Year Institutions of Higher Education**, Southern Illinois University, Carbondale, 1978 (79-16084).
- Newpeck, F. F. **Data Administration**, University of Massachusetts, 1973 (74-08566).
- Nickerson, R. C. **The Use and Value of Models in Decision Analysis**, University of California, Santa Cruz, 1978 (79-00828).
- Nilsson, W. D. **Testing a Complex, Real-Time Management Information System**, Oklahoma State University, 1973 (74-08090).
- Nixon, J. E. **An Evaluation of the Effects of External Priorities on Optimal Scheduling of Large Scale Computer Systems**, Arizona State University, 1974 (75-00005).
- Norton, D. P. **The Centralization of Information Systems in Large Organizations**, Harvard University, 1973 (73-15918).
- Nowell, A. H. **Coping with Nurses' Resistance to Hospital Unit Management Systems**, Wayne State University, 1978 (79-08948).
- Oberlander, L. B. **Physical Design of Database Structures**, University of Michigan, 1979 (80-07795).
- O'Kane, K. C. **The Design and Implementation of an Integrated Medical Information System**, Pennsylvania State University, 1972 (73-20111).
- Oliver, J. B. **The Effects of Presentation Form and Task Variables on the Saliency of Information in Evaluations of Company Performance**, University of California, Los Angeles, 1979 (80-08508).
- Olson, M. H. **An Investigation of Organizational Contingencies Associated with Structure of the Information Services Function**, University of Minnesota, 1978 (79-12060).
- Omer, M. H. A. **Design and Development of a Minicomputer Interactive Data Base Management System**, Texas Tech University, 1979 (80-03223).
- O'Neill, M. E. **The Acceptance and Implementa-**

- tion of Computer-Aided Dispatch Systems by Local Police Agencies, Golden Gate University, 1980 (80-24967).
- Ormancioglu, L. **Process Management System: An Automated Design Methodology for Management Reporting Systems**, Northwestern University, 1979 (79-27418).
- Park, M. K. **Design and Verification of a Computer-Mediated Inquiry System for Access to Instructional Resources Data Files**, University of Georgia, 1977 (77-29797).
- Parsa, J. H. **An Automated Police Information System for a Small Town**, Texas Tech University, 1972 (73-04065).
- Pearce, W. L. **Understanding Data Processing Terminology: A Study of Semantic Congruency Between Data Processors and Data Processing Users**, University of Missouri, Columbia, 1973 (74-10560).
- Pearson, S. W. **Measurement of Computer User Satisfaction**, Arizona State University, 1977 (77-32419).
- Pejsar, R. J. **The Systems Manager: A Study in Conflict**, University of Nebraska, Lincoln, 1975 (76-13345).
- Penniman, W. D. **Rhythms of Dialogue in Human-Computer Conversation**, Ohio State University, 1975 (75-19480).
- Perkins, T. E. **A Nonprocedural Language for the Specification and Design of Business Data Processing Systems**, Southern Methodist University, 1980 (80-28409).
- Pickett, G. C. **Operations Research/Management Science Area with Emphasis on the Determination of Variables Associated with the Implementation Success of Selected Models**, Mississippi State University, 1978 (78-14869).
- Picur, R. D. **A Framework for a Manpower Information System**, Northwestern University, 1973 (74-07798).
- Piper, W. B. **To Establish the Need for a Management Information System to Aid in the Decision-Making Process at the Superintendent's Level for Selected Schools of the Middle Cities Education Association of Michigan**, Michigan State University, 1974 (74-27469).
- Pitre, R. **An Investigation of the Relationship Between Hospital Management Information Systems and Hospital Effectiveness**, University of Houston, 1978 (78-15202).
- Pollack, M. **Principal Employers' Personnel Requirements and Higher Education Course Offerings in Business Data Processing**, New York University, 1973 (73-30112).
- Poole, H. L. **Theories of the Middle Range of Information Use by Scientists and Engineers in Formal Information Systems**, Rutgers University, The State University of New Jersey, New Brunswick, 1979 (79-28441).
- Power-Ross, S. J. **External and Internal Processes in the Acquisition of Information and Decision-Making by Portfolio Managers**, University of Minnesota, 1979 (80-11871).
- Pradels, J. L. **The GUIDE: An Information System**, University of Illinois, Urbana-Champaign, 1974 (75-00405).
- Pratt, J. H. **The Association Between Financial Report Complexity and User Financial Information Conceptual Levels: An Analysis under Experimental Conditions**, Indiana University, 1977 (78-21533).
- Purkayastha, S. **Design of DBMS - Processable Logical Database Structures**, University of Michigan, 1979 (80-07814).
- Pursley, D. G. **A Descriptive Study of the Relationships Between Selected Organizational Variables and the Nature of the Data Base Administrator**, George Washington University, 1978 (79-04702).
- Rauch, R. A. **The Universal Product Code and Computer Assisted Scanning: A Marketing Case Study**, New York University, 1979 (80-10300).
- Rebhun, H. F. **The Development, Implementation and Evaluation of a Computer Support System for the Management of Competency-Based Individualized Programs**, Florida State University, 1974 (75-08056).
- Redman, D. E. **The Impact of Information Technology on Hospital Management Information Systems: A Comparative Study**, American University, 1975 (75-20540).
- Reed, C. N., III **An Information System Approach to the Spatial Display and Analysis of Urban Crime Data**, State University of New York, Buffalo, 1980 (80-27629).
- Reiter, R. W., Jr. **An Experimental Investigation of Computer Program Development Approaches and Computer Programming Metrics**, University of Maryland, 1979 (80-16993).
- Relles, N. **The Design and Implementation of User-Oriented Systems**, University of Wisconsin

- sin, Madison, 1979 (79-02419).
- Rice, W. E. **An Empirical Study of Consumers' Expectations and Perceptions of Computerized Devices within the Transaction**, University of Colorado, Boulder, 1979 (80-11298).
- Richards, E. W., Jr. **Cost Control of EDP Services: A Cost Accounting Model and Examination of Current Practices**, Michigan State University, 1976 (77-05873).
- Richards, T. E. **An Evaluation of Accounting Information Systems in Large County Governments**, George Washington University, 1976.
- Riehl, J. W. **An Examination of Management Practices in the Development of Business Information Systems**, George Washington University, 1977 (77-29524).
- Rin, N. A. **Automatic Generation of Business Data-Processing Programs from a Non-Procedural Language**, University of Pennsylvania, 1976 (77-10209).
- Rittenberg, L. E. **The Impact of Internal Auditing Participation During the EDP Application Design Process on Perceptions of Internal Audit Independence**, University of Minnesota, 1975 (76-14953).
- Robertson, C. K. **The Division of Information Processing Labor Between User and Support System: Exploration of a Concept**, University of Pittsburgh, 1977 (77-21237).
- Rodriguez, J. I. **The Design and Evaluation of a Strategic Issue Competitive Information System**, University of Pittsburgh, 1977 (77-23576).
- Rose, D. L. **A Study to Develop a Conceptual Model for a Congressional Budget Information System**, University of Alabama, 1976 (77-12239).
- Rosenthal, P. H. **Cross-Impact Simulation of an Emerging Industry: A Case Study of Data Processing**, University of Southern California, 1980.
- Rosich, D. **A Survey of Data Security and Privacy Protection Issues in the Introductory Business Data Processing Course in Undergraduate Collegiate Business Education**, New York University, 1980 (80-27482).
- Rugaber, J. S. **A Model of the Understandability of Computer Programs**, Yale University, 1977 (78-17151).
- Rushinek, A. **The Use of Computer Assisted Instruction in the Teaching of Data Processing and Its Effect on Students' Attitudes**, University of Texas, Austin, 1979 (79-28350).
- Sachs, W. M. **Man, Design, Machine: An Inquiry into Principles of Normative Planning for Computer-Based Technical Systems Illustrated by a Case of Design of an Entry, Storage, and Retrieval System for Scientific Communication and Technology Transfer**, University of Pennsylvania, 1976 (76-22774).
- Sandberg, H. D. **Factors Related to User Satisfaction of a State Extension Management Information System in the Cooperative Extension Service**, Michigan State University, 1979 (80-13790).
- Sarbach, D. L. **Toward an Automated Health Care Facilities Planning Information System in the United States Air Force**, Texas A & M University, 1972.
- Sartore, A. **Implementing a Management Information System: The Relationship of Participation, Knowledge, Performance, and Satisfaction in an Academic Environment**, University of California, Irvine, 1976 (78-01962).
- Saunders, C. S. **Management Information Systems, Communications and Intra-organizational Power: An Integrative Study**, University of Houston, 1979 (80-12732).
- Scanlan, M. J. **An Examination of Basic Audit Concepts as Applied to the Audit of Real Time Data Systems**, University of Texas, Austin, 1973 (74-05323).
- Schaber, T. C. **The Application of Cluster Analysis to the Direct Retrieval of Computerized Information**, University of Cincinnati, 1978 (78-21594).
- Schaeberle, F. W. **The Role of the Internal Auditor in Relation to Information Systems**, University of Missouri, Columbia, 1973 (74-18632).
- Scheetz, L. P. **A Comparison of Personnel Information Storage and Retrieval Systems for the Placement Services of Several Universities**, Michigan State University, 1973.
- Schell, J. A. **On the Development of an Interactive Resource Information Management System for Analysis and Display of Spatiotemporal Data**, Texas A & M University, 1974 (75-15064).
- Scheuermann, P. I. **A Simulation Model for Data Base Systems**, State University of New York, Stony Brook, 1976 (77-07782).

- Schillak, J. R. **The Impact of the Computer Upon the Job Tasks of Individuals Employed in the Financial Accounting System of Selected Businesses**, University of Wisconsin, Madison, 1975 (75-12921).
- Schoech, R. J. **Computer Use in Human Services: The Implications of Theory and Practice**, University of Texas, Arlington, 1978 (79-15908).
- Scholtz, S. C. **A Management/Research Information System Design for Archeological Resources**, University of Arkansas, 1980 (80-26035).
- Schrage, J. F. **Analysis, Classification, and Synthesis of Research Findings and Thought Pertaining to Business Data Processing Education from 1971 to 1976**, Michigan State University, 1978 (79-07397).
- Schultz, J. A. **The Retrieval of Information Using Natural Language: A Problem of Data Structuring and Language**, Case Western Reserve University, 1973 (74-02561).
- Schultz, R. D. **An Architecture for Auditable Advanced Transaction Oriented EDP Systems**, University of California, Los Angeles, 1979 (80-08526).
- Schwarzbach, H. R. **Auditing Management Information Systems: An Empirical Investigation on the Impact of Management Information System's Audits**, University of Colorado, Boulder, 1976 (77-11331).
- Scott, H. B. **The Development and Administration of a System for the Dissemination of Scientific and Technical Information**, Texas A & M University, 1978 (79-09235).
- Seastrom, D. E. **Adaptive Displays to Accommodate Learning: Implications for Man-Computer Decision-Making in a Graphics-Aided Information Retrieval Environment**, Stanford University, 1973.
- Sen, A. **On the Theory of Logical Data Base Design for a Decision Support System**, Pennsylvania State University, 1979 (80-10096).
- Senn, J. A. **Information System Structures and Purchasing Decision Effectiveness: An Experimental Study**, University of Minnesota, 1973 (74-10583).
- Seward, H. H. **Measuring User Satisfaction to Evaluate Information Systems**, Harvard University, 1973 (73-27545).
- Sharifi Fardi, M. **A Pragmatic Approach to Development and Application of Total Information System**, Louisiana State University and Agricultural and Mechanical College, 1975 (76-12940).
- Sharifnia, A. **Optimal Information Acquisition for Randomly Occurring Decisions**, Stanford University, 1979 (80-02011).
- Sherr, D. M. **A Framework of Standards for Information System Design and Implementation**, University of Pennsylvania, 1974 (75-14623).
- Shields, M. D. **An Empirical Inquiry into the Effects of Information Load on Performance Report Analysis Processes**, University of Pittsburgh, 1978 (79-17405).
- Shipman, D. L. **A Management Information System Model for Program Management**, Oklahoma State University, 1972 (73-15236).
- Shneiderman, B. A. **Data Structures: Description, Manipulation and Evaluation**, State University of New York, Stony Brook, 1973 (73-25771).
- Sigmon, T. M. **Performance-Oriented Design Models for Computer Systems**, Duke University, 1979 (80-08194).
- Simis, P. **The Impact of an Information Retrieval and Analysis System on Managers**, Arizona State University, 1978 (79-06098).
- Simonds, R. S. **Toward a Paradigm of Educational Change: The Role of Management Information Systems**, University of Southern California, 1973 (73-07267).
- Singer, C. A. **A Methodology for the Determination and Communication of Requirements for an Information Processing System**, Purdue University, 1976 (77-01777).
- Sledge, C. A. **Factors in the Design of File and Data Base Systems**, University of Pittsburgh, 1977 (78-09557).
- Smith, F. G. **Major Design Decision Areas: Data Communications and Implications to the Systems Designer**, George Washington University, 1979 (79-19673).
- Smith, H. G. **A Computerized Information System Model for Decision Making for the Oklahoma State Department of Vocational and Technical Education**, Oklahoma State University, 1973 (74-08122).
- Smith, H. R. **Decision Making in a Simulated Operating Environment: An Experimental Investigation of Computerized Data Inquiry Techniques**, University of Minnesota, 1975 (76-27835).
- Smith, J. R. M. **A Model for Data Selection Policies in Information System Design: A**

- Theoretical Approach**, University of California, Berkeley, 1974.
- Smith, R. C. **An Examination of Major Factors Affecting Success in the Development of Administrative Computer Applications in Large Public School Districts**, George Washington University, 1972 (73-03849).
- Smith, R. J. **Middle Management Use of Computer Services: The Influence of Organizational Distance and Work Flow Dependence**, University of California, Irvine, 1977 (78-01909).
- Sosne, H. L. **A Management Information System Model Based on the Information Needs of a Prototype School District**, Duke University, 1973 (74-10755).
- Sparr, T. M. **The Design of a Computer-Controlled Automatic Data Acquisition and Handling System for Water Quality Management Applications**, Texas A & M University, 1972 (73-03570).
- Spence, J. W. **A Case Study Analysis of Organizational Communication Effectiveness Between User-Managers and Information Service Department Personnel**, Texas Tech University, 1978 (79-17324).
- Spiegler, I. **A Computer Aided Methodology for Bridging Analysis and Construction in the Design of Information Processing Systems**, University of California, Los Angeles, 1977 (77-12944).
- Spurgat, F. A. **A Comparative Study of the Implementation and Use of Management Information Systems in a Federal Research Agency: Factors Affecting User Acceptance**, Northwestern University, 1976 (77-01356).
- Stabell, C. B. **Individual Differences in Managerial Decision-Making Processes: A Study of Conversational Computer System Usage**, Massachusetts Institute of Technology, 1975.
- Stemple, D. W. **A Database Management Facility and Architecture for the Realization of Data Independence**, University of Massachusetts, 1977 (77-15127).
- Straw, S. W. **An Analysis of Consumer Usage of Computer Consoles for Credit Cards: An Empirical Exploration of Retail Customer Behavior**, Ohio State University, 1976 (77-02512).
- Svobodova, L. **Computer Performance Measurement and Evaluation Methods: Analysis and Applications**, Stanford University, 1974 (74-27124).
- Swanson, D. B. **Computer Simulation of Expert Problem Solving in Medical Diagnosis**, University of Minnesota, 1978 (78-13453).
- Swenson, D. E. **Performance Measures for a Data Base Management System**, Purdue University, 1973 (74-15247).
- Talbot, A. A. **A Comparison of the Computer Needs of Office Managers in Computer-Using Companies with the Computer Course Requirements in Office Management Curricula in NABTE Schools**, University of Iowa, 1976 (76-26338).
- Tanniru, M. R. **A Decision Support System for Planning**, Northwestern University, 1979 (79-27463).
- Tarondeau, J. C. **The Management Information System Design Problem: Discriminant Analysis Applied to Production Information Systems**, University of Texas, Austin, 1974 (74-14771).
- Taylor, C. A. **Long-Range Goals for the Education and Training of Application Computer Programmers and Systems Analysts**, Illinois State University, 1978 (79-13039).
- Taylor, D. J. **Robust Data Structure Implementations for Software Reliability**, University of Waterloo, Canada, 1977.
- Teichman, R. J. **Development of Information Systems Activities and Interfaces to Support Top Management Functions**, Northwestern University, 1977 (77-32359).
- Tenah, K. A. **Construction Management Information Control Systems (CMICS)**, Texas A & M University, 1979 (80-12007).
- Tesch, R. C., Sr. **Comparison of the Two-Year Data Processing Curriculum at Wisconsin Technical Vocational Institutes and Employers' Expectations of Employee Competencies**, Utah State University, 1977 (78-08143).
- Thayer, R. H. **Modeling a Software Engineering Project Management System**, University of California, Santa Barbara, 1979 (80-19850).
- Therp, L. V. **A Storage Structure Model for Data Base Design**, Stanford University, 1976.
- Thie, H. J. **Model Development and Implementation: A Managerial Perspective Based on United States Army Personnel Management Modeling**, George Washington University, 1977 (77-29526).
- Thorn, R. G. **Attitudes of University Departmental Chairmen Toward University Information**

- Systems**, Texas Tech University, 1973 (73-23777).
- Tierney, M. L. **The Impact of Management Information Systems on the Resource Allocation Decisions of Selected Private Liberal Arts Colleges**, University of California, Los Angeles, 1977 (77-25351).
- Tiessen, P. **An Investigation of Some Effects of Data Aggregation and Cognitive Style on Decision Making Performance**, University of Minnesota, 1976 (76-27836).
- Tilbury, G. R., Jr. **A Planning Model for Management Information Systems in Education: An Approach**, University of Virginia, 1977 (78-12114).
- Townsend, D. L. **An Appraisal of Management Information Systems Utilization in State-Supported Senior Colleges and Universities in Texas**, East Texas State University, 1972 (73-04445).
- Toyne, M. C. **An Evaluation of Data Processing Training in Georgia Public and Private Schools and the Derivation of Behavioral Objectives for Entry-Level Computer Programmer and Operator Curricula Based Upon Responses of Data Processing Managers**, Georgia State University, 1974 (74-23180).
- Trice, R. W. **Current and Predicted Use of the Computer in Selected Educational Technology Programs**, East Texas University, 1979 (80-09619).
- Turner, J. **Computers in Bank Clerical Functions: Implications for Productivity and the Quality of Working Life**, Columbia University, 1980 (80-23556).
- Uthurusamy, R. **Computer Assisted Compatible Medical Diagnosis and Consulting**, Purdue University, 1980 (80-27345).
- Vaillancourt, J. R. **The Process of Developing Management Information Systems in Higher Education**, State University of New York, Buffalo, 1974 (74-20038).
- Van Horn, R. L. **Elements of an Information and Decision System for Assembly Scheduling: An Application to Aircraft Maintenance**, Carnegie-Mellon University, 1976 (76-21923).
- Varanelli, A., Jr. **A Technique for Deriving an Effectiveness Index for Use in Computing Center Management in Higher Education**, Rutgers University, The State University of New Jersey, New Brunswick, 1976 (77-13294).
- Vasarhelyi, M. A. **Man-Machine Planning Systems: A Behavioral Examination of Interactive Decision Making**, University of California, Los Angeles, 1973 (73-28995).
- Veith, R. H. **The Interorganizational Impact of Computerized Information Processing Networks: The Case of International Banking**, Syracuse University, 1980 (80-25389).
- Waller, T. C., Jr. **The Budgetary Control of the Development of Management Information Systems**, University of Houston, 1977 (77-18289).
- Walstrom, J. A. J. **An Investigation of Outcome Information in Management Information Systems for Higher Education**, University of Nebraska, Lincoln, 1976 (77-14699).
- Walther, G. H. **The On-Line User-Computer Interface: The Effects of Interface-Flexibility, Experience, and Terminal-Type on User-Satisfaction and Performance**, University of Texas, Austin, 1973 (74-05344).
- Warns, D. E. **A Computer Based Social Service Information System: An Impact Study of Neighborhood Service Agencies in Cincinnati**, University of Cincinnati, 1973.
- Watkins, P. R. **Perceived Information Complexity and Cognitive Styles: Implications for Decision Support Systems Design**, Arizona State University, 1980 (80-11134).
- Weber, J. F. **Structure of a Community College Information System for Support of Planning and Management Systems**, Wayne State University, 1973 (73-12616).
- Weir, B. O. **A Comparative Analysis of Three Major Models Most Frequently Used in Applying Computer Technology in Academic Libraries in the Southeast**, George Peabody College for Teachers, 1979 (80-16159).
- Weldon, J. L. **Data Storage Decisions for Large Data Bases**, University of Pennsylvania, 1975 (76-03229).
- Welke, R. J. **A Conceptual Framework and Methodology for Describing and Evaluating Alternative Information Systems for a Managerial Perspective**, State University of New York, Buffalo, 1975 (76-01474).
- Wenker, W. J. **Parametric Analysis for Computer Performance Evaluation of Large Data Processing Facilities**, George Washington University, 1978 (79-04696).

- Control of Railroad Operations**, Indiana University, 1979 (80-07647).
- Whitener, B. C. **A Study of the Use of Computer Time Sharing in Selected Organizations**, George Washington University, 1977 (77-19225).
- Whittemore, B. J. **A Generalized Decision Model for the Analysis of Information**, Ohio State University, 1972 (73-02162).
- Wiederhold, G. C. M. **Methods for the Design Analysis of Medical Data Base Systems**, University of California, San Francisco, 1976 (77-05278).
- Wilkins, P. L. **An Analysis of the Attitudinal and Behavioral Impact of a Human Resource Information System**, Ohio State University, 1971 (72-15326).
- Wilkins, D. M. **Long Range Planning for an Integrated Management Information System in the City of Los Angeles**, University of Southern California, 1979.
- Wilson, D. A. **Data Expansion and Decision Quality: A Laboratory Experiment**, University of Illinois, Urbana-Champaign, 1972 (73-17480).
- Wise, J. A. **Change as a Concept in Information System Theory**, University of Pittsburgh, 1977 (77-23562).
- Wolf, T. E. **An Interactive, Self-Documenting Computer Interface System to Aid Usage of the SPSS Statistical Application Package**, University of Pittsburgh, 1978 (79-17447).
- Wolfe, M. N. **An Investigation into Computerized Personnel Management Information Systems: A Prescriptive Model**, University of Massachusetts, 1977 (77-15140).
- Woodruff, C. K. **An Empirical Study of Individual Congruence and the Perceived Organizational Practices — Job Satisfaction — Job Performance Relationship in Selected Electronic Computer Data Processing Centers**, Georgia State University, 1977 (77-22856).
- Wright, G. M. **Evaluating Management Information Systems through Optimal Control Theory**, George Washington University, 1979 (79-19675).
- Wright, R. W. **Computerized Merchandising Systems**, University of Nebraska, Lincoln, 1973 (74-13036).
- Wynne, B. E. **Decision Rule Information Systems - An Evaluation of the Effectiveness of Individual Man-Machine Interaction Sequences**, University of Minnesota, 1972 (73-10658).
- Wysong, E. M., Jr. **An Analysis of the Effectiveness of Computer-Based Financial Management Systems in the Civil Agencies of the Federal Government**, George Washington University, 1972 (73-03851).
- Yang, J. N. **A Query Language and Database Management System for a Relational Model**, University of California, Berkeley, 1974.
- Yassour, J. **Decision Support Systems: The Case of Price Policy for Rice in the Philippines**, Harvard University, 1979 (79-14078).
- Yelowitz, L. **A Symmetric, Top-Down Structured Approach to Computer Program/Proof Development**, John Hopkins University, 1972 (76-08504).
- Young, M. L. **Design and Implementation of a Generalized User-Oriented Input-Data Error Detecting Language**, Texas A & M University, 1972 (73-03584).
- Young, R. R. **An Analysis and Development of a Policy-Making Framework to Evaluate Proposals for Computer-Based Systems in Large Local Governments**, George Washington University, 1975 (76-02588).
- Zamora, R. **Information and Managerial Decision Making Modes in a Governmental Agency**, University of Texas, Austin, 1979 (80-00995).
- Zant, R. F. **A Computer-Based Corporate Modeling System**, University of Florida, 1972 (73-15557).
- Zmud, R. W. **Towards an Understanding of the Computer Center/User Interface**, University of Arizona, 1974 (74-20254).
- Zuber, E. F. **SPERT: A Computer Management Information System for Use in the Construction of Educational Facilities**, University of Mississippi, 1975 (76-00477).