

MIS Doctoral Dissertations: 1987

Editor's Note

Each year the *MIS Quarterly* publishes a listing of MIS dissertations written during the previous year. This list of titles is updated annually to provide a complete, up-to-date index to the MIS dissertation literature.

The method used for identifying dissertation titles was previously described and validated [1]. Although this method ensures identification of most MIS dissertations, there will be occasional oversights. Undoubtedly, there are some we have missed this year and still others from previous years. We encourage additions to the bibliography.

This year's list includes 144 dissertations. Copies of the dissertations may be obtained through University Microfilms. University Microfilms can be reached at:

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Abstracts of the dissertations are found in Dissertation Abstracts International, which is available in most university libraries. The 500 to 1,000 word abstracts provide a short description of the research topic, research methodology, and findings.

¹ Hamilton, S., Ives, B., and Davis, G.D. "MIS Doctoral Dissertations 1973-1980." *MIS Quarterly*, Volume 5, Number 2. June 1981, pp. 61-83.

Dissertation Bibliography

- Ahad, R. *User-Assisted Design and Evolution of Physical Databases*, University of Southern California, 1985.
- Ata, M. *A Knowledge-Based Decision Support System for Managerial Problem Recognition and Diagnosis*, Texas Tech University, 1985 (85-28573).
- Ahn, H. J. *An Empirical Study of the Use Patterns for Computer Based Financial Planning Models in Selected Successful Businesses*, United States International University, 1985 (86-12231).
- Barnett, J. M. *Middle Management and the Personal Computer: An Analysis of the Effects of Personal Computer Use by Corporate Middle Managers*, Golden Gate University, 1985 (85-24793).
- Beatty, W. A. *Determining Factors of Microcomputer-Based Management Information System User Satisfaction*, Florida State University, 1986 (86-12211).
- Behan, B. A. *Utilization of Computer-Based Information Systems in College Strategic Planning*. University of Pittsburgh, 1985 (86-01409).
- Bialac, R. N. *Analysis of the Effectiveness and Efficiency of Business Decision-Making Using Computer Graphics*. University of Cincinnati, 1985 (85-26522).
- Blazy, L. J. *Information Processing Requirements in Using A Simulated "Expert Support System" in a Problem Solving Task*, University of Maryland, 1985 (86-08781).
- Blaha, M. R. *Application of Database Management Technology To Process Engineering*, Washington University, 1984 (86-09835).
- Bloom, A. J. *A Component Analysis of Computer Anxiety Reduction Training*, Colorado State University, 1985 (85-27631).
- Boras, W. *The Relationship of National Occupational Competency Testing Institute Examination Scores in Computer Technology to Occupational Experience, Educational Level, and Teaching Experience*, Michigan State University, 1985 (86-03381).
- Borenstein, N. S. *The Design and Evaluation of On-Line Help Systems*, Carnegie-Mellon University, 1985 (86-01161).
- Brock, F. J. *Enhanced Computer Graphics for Decision Makers*, Portland State University, 1986 (86-12277).
- Brown, C. J. *A Critical Analysis of Management Information Systems in the Civil En-*

- gineering Construction Industry in South Africa, University of Pretoria (South Africa), 1985.
- Brooks, K. M. *Determination of Geographic Information System Database Characteristics: An Application of the Information Integration Theory*, Oregon State University, 1986 (85-27776).
- Buffington, J. R. *The Impact of Subcultures on Decision Support System Usage*, University of Nebraska-Lincoln, 1986 (86-14442).
- Cammarata, S. J. *An Object-Oriented Data Model for Managing Computer-Aided Design and Computer-Aided Manufacturing Data Bases*, University of California, 1986 (86-21033).
- Carberry, M. S. *Pragmatic Modeling in Information System Interfaces*, University of Delaware, 1985 (85-25275).
- Carlson, C. K. *An Investigation of Information Management Approaches for Program Management at a Federal Agency*, University of Southern California, 1985.
- Castle, W. I. *The Effect of Knowledge Representation and Psychological Type on Human Understanding in the Human-Computer Interface*, University of Texas-Arlington, 1985 (86-07478).
- Chen, J. C. *Relational Data Base Systems Applied to Manufacturing Management Information Systems*, Lehigh University, 1986 (86-04019).
- Chi, U. H. *A Model and Notation for Specifying User Interfaces*, University of Washington, 1985 (85-21006).
- Cho, D. *Analyzing and Manipulating Numeric Business Data: An Aid to Non-Expert Users*, University of Illinois at Urbana-Champaign, 1985 (85-21740).
- Choobineh, J. *Form Driven Conceptual Data Modeling*, University of Arizona, 1985 (85-28331).
- Clement, D. M. *Theory and Research on Comprehension of Computer Documentation*, University of California-Berkeley, 1984 (85-12785).
- Coovert, M. D. *The Use of Mental Models to Affect Quality in Human-Computer Interactions*, Ohio State University, 1985 (85-26790).
- Coughlin, P. J. *Strategic Models for Computing in Small Universities and Colleges*, Pace University, 1985 (85-16453).
- Davis, J. G. *A Typology of Information Systems Users and Its Implications for Effectiveness Research*, University of Pittsburgh, 1986 (86-20211).
- Davis, L. R. *The Effects of Question Complexity and Form of Presentation on the Extraction of Question-Answers From an Information Presentation*, Indiana University, 1986 (86-17816).
- Deppe, P. R. *Design of a Computerized Management Information System for Special Education: A Case Study*, Columbia University Teachers College, 1985 (85-25463).
- Djunaedi, A. *The Development of a Microcomputer-Based Comprehensive Urban Planning Decision Support System*, Texas A&M University, 1986 (86-14946).
- Dykman, C. A. *Electronic Mail Systems: An Analysis of the Use/Satisfaction Relationship*, University of Houston, 1986 (86-17060).
- Earl, A. W. *The Budget Information Systems of Selected Colleges and Universities in the State of Virginia as Described and Perceived by Budget Managers*, College of William and Mary-Virginia, 1986 (86-16839).
- Elhaj, R. H. *Information Systems for Improving Management of Water Supply Mains*, Colorado State University, 1985 (86-07637).
- Elkerton, J. *A Behavioral Evaluation of Command-Selection Aids for Inexperienced Computer Users*, Virginia Polytechnic Institute and State University, 1985 (86-05439).
- Emerson, G. D. *Projected Performance Requirements for Personnel Entering Information Processing Jobs for the Federal Government*, University of Oklahoma, 1985 (86-04584).
- Eom, H. B. *A Multi-Objective Decision Support System for Global Financing Strategies of the Multinational Corporation*, University of Nebraska-Lincoln, 1985 (85-26620).
- Eve, B. C. *Office Automation and Human Issues*, University of Massachusetts, 1986 (86-12035).
- Farn, C. K. *An Integrated Information System Architecture Based on Structured Modeling*, University of California-Los Angeles, 1985 (86-01893).
- Fisher, G. L. *A Software Architecture for Strategic Management Support Systems Utilizing Interactive Graphics*, University of Arizona, 1986 (86-15823).
- Floyd, S. W. *A Causal Model of Managerial Electronic Workstation Use*, University of Colorado-Boulder, 1986 (86-18943).
- Foster, E. H. *The Influence of Behavioral Char-*

- acteristics and Computer Training Upon School Administrators' Attitudes Toward Implementation of Computer Management Information Systems, George Washington University, 1986 (86-07876).
- Gal, G. F. *Using Auditor Knowledge to Formulate Data Model Constraints: An Expert System for Internal Control Evaluation*, Michigan State University, 1985 (86-07076).
- Galletta, D. F. *A Learning Model of Information Systems: The Effects of Orienting Materials, Ability, Expectations, and Experience on Performance, Usage, and Attitudes*, University of Minnesota, 1985 (85-19274).
- Gallupe, R. B. *The Impact of Task Difficulty on the Use of a Group Decision Support System*, University of Minnesota, 1985 (86-06231).
- Garceau, L. R. *The Relationship of Cognitive Style and Usage Environment to Decision Making Performance, User Satisfaction and Information Preferences: A Contingency Model*, Boston University, 1986 (86-09274).
- Ghahari, A. K. *A Design Methodology for On-Line Menu-Driven Information Retrieval Systems*, George Washington University, 1985 (85-26773).
- Gonzalez, M. *Computer-Based Scenarios in Strategy Formulation: The Case of a Large Insurance Company*, University of Southern California, 1985.
- Goren, G. *The Management of Computing in a Turbulent Environment: Organizational Responses to the Advent of Personal Computing*, University of California-Irvine, 1986 (86-17949).
- Grandor, T. E. *A User Interface Management System Generator*, University of Pennsylvania, 1986 (86-14805).
- Greenhall, N. C. *Using a Fuzzy Expert System for Decision Support of the Strategic Planning Process*, Georgia State University, 1985 (86-18217).
- Guillemette, R. A. *Application Software Documentation: A Reader Measure*, University of Houston, 1986 (86-17059).
- Guynes, J. L. *Impacts of Personality Type and Computer System Response Time on Anxiety and User Response Time*, North Texas State University, 1985 (86-04551).
- Hall, L. O. *A Methodological Approach to a Re-Usable Fuzzy Expert System*, Florida State University, 1986 (86-16888).
- Hankins, R. W. *Control, Technology, Management Information System Strategy And Organization Performance*, University of North Carolina-Chapel Hill, 1985 (85-27282).
- Hartman, K. *A Framework of Routine Learning: An Experimental Study of the Learning of a Computer-Based Task*, New York University, 1985 (86-09206).
- Hernandez P. E. *Importance of Variables in a Management Information System For Vocational Education Based on Professional Experience of American Vocational Education Administrators*, New Mexico State University, 1985 (86-01206).
- Horse, H. R. *Computer Decision Support for Water Supply Development*, Colorado State University, 1986 (86-18181).
- Humphries, C. A. *An Investigation of Stress and Stress Outcomes for Mortgage Company Employees Associated With Implementation of a Computerized Information Management System at Work*, University of Miami, 1986 (86-19480).
- Jaros, K. J. *Computers in Human Service Organizations: An Exploratory Survey*, University of Pittsburgh, 1985 (86-00644).
- Jih, W. J. *Impacts of Query Specification Mode and Problem Complexity on Query Specification Productivity of Novice Users of Data Systems*, North Texas State University, 1985 (86-04511).
- Kammire, L. L. *Construction and Statistical Analysis of an Instrument that Measures Attitudes Toward Computers*, Georgia State University, 1984 (85-25631).
- Kane, M. J. *A Study of the Impact of Transborder Data Flow Regulation on Large United States-Based Corporations Using an Extended Information Systems Interface Model*, University of South Carolina, 1986 (86-15910).
- Karuppan, M. *Diffusion of Computers in the Small Business Sector: An Empirical Investigation*, University of Arkansas, 1986 (86-18046).
- Kim, D. J. *Moral Thinking on Computer-Related Issues Among Educators and Other Related Professionals*, University of Michigan, 1986 (86-21312).
- Kim, Y. S. *An Analysis of Training and Continuing Education Programs for Data Processing Personnel in Selected Businesses*, Memphis State University, 1985 (86-06124).
- Kizzier, D. L. M. *Attitudes of Office Personnel*

- Toward Advanced Office Technology*, University of Nebraska-Lincoln, 1985 (85-26595).
- Krepps, K. A. *The Effects of an Experimental Computer Training Program on Affective Job Responses for Employees Converting to an Automated Operation*, Wayne State University, 1986 (86-15406).
- Kuper, G. M. *The Logical Data Model: A New Approach to Database Logic*, Stanford University, 1986 (86-08173).
- Kuss, H. J. *Communications Incongruence Between Technical and Non-Technical Computing Users*, Southern Illinois University-Carbondale, 1985 (85-26713).
- Lacerda, F. W., Jr. *Comparative Advantages of Graphic Versus Numeric Representation of Quantitative Data*, Virginia Polytechnic Institute and State University, 1986 (86-20635).
- Lamos, J. P. *The Representation of Expert Knowledge for Instruction: An Evaluation of a Computer-Based Instructional Design Editor*, University of Colorado-Boulder, 1985 (85-22671).
- Langston, P. D. *Factors Associated with Faculty and Department Chairpersons' Utilization of a Computerized Student Information System*, University of Arkansas, 1985 (85-28924).
- LaRosa, P. A. *Corporate Information Executives: Perceptions Regarding Roles, Responsibilities, and Job Preparation*, Arizona State University, 1985 (86-02848).
- Lee, J. K. *Solving Semi-Structured Problems and the Design of Decision Support Systems: Post-Model Analysis Approach*, University of Pennsylvania, 1985 (85-15401).
- Lee, J. M. *Three-Dimensional Data Representations and Their Utility for Managerial Decision-Making*, Rensselaer Polytechnic Institute, 1985 (85-19500).
- Lee, S. H. *Empirical Validation of the MIS Stage Hypothesis in a Developing Country Setting*, Boston University, 1986 (86-12177).
- Lee, S. S. *Computer-Based Office Automation and the Dynamics of Sociotechnical Change: Six Case Studies*, Michigan State University, 1985 (86-07102).
- Lehman, C. M. *An Investigation of the Current Practices of Personal Computer Utilization in Accounting, Legal, and Medical Firms with Implications for the Business Education Curriculum*, University of Arkansas, 1984 (85-28926).
- Li, P. Y. *A Text Generation Module for a Decision Support System*, Illinois Institute of Technology, 1985 (85-25933).
- Loy, S. L. *An Experimental Investigation of a Graphical Problem-Structuring Aid and Nominal Group Technique for a Group Decision Support System*, Texas Tech University, 1986 (86-15360).
- Malaney, G. D. *The Coordination of Information in a Highly Differentiated Organization: Use of a Computerized Relational Database System as an Integrating Device for Monitoring Graduate Education*, The Ohio State University, 1985 (85-26211).
- Mantha, R. W. *A Comparative Investigation of Data Flow Modeling and Data Structure Modeling for Deriving Information System Data Specifications*, University of Minnesota, 1986 (86-08900).
- Maxwell, P. D. *A Critical Analysis of the Personal Characteristics of Successful Information Systems Analysts*, Boston University, 1986 (86-15131).
- McDonald, M. G. *A Results-Driven Evaluation of an Information System of Operating-Level Managers: A Case Study*, University of Texas-Austin, 1986 (86-18541).
- McMunigal, J. D. *Trends and Training Methods Employed in Management Information Systems with an Emphasis on the Project Setting*, Texas A&M University, 1986 (86-14983).
- McMurtry, S. L. *Automated Information Management in Substitute Care for Children: A Study of Contributions to Planning, Review, and Case Outcomes*, University of Wisconsin-Madison, 1985 (85-22527).
- McNeeley, B. J. *Corporate Adoption of Microcomputers: An Analysis of Industrial Buyer Behavior*, Ohio State University, 1985 (85-26222).
- Mead, M. J. *Creativity by Design: Creativity Enhancing Design Principles for Decision Support Systems*, University of Texas-Austin, 1985 (86-09549).
- Meddings, E. T. *Human Engineering Directions for Information Processing Technology: Human/Computer Symbiosis*, University of Toronto (Canada), 1985.
- Mehra, A. *Free Flow of Information and the New International Information Order: Toward a Doctrinal Reconciliation*, Southern Illinois University-Carbondale, 1985 (85-26722).
- Meile, L. C. *A Model of the Effects of Change*

- in Communication Technology on the Sources of Information for Organizational Decision Making*, Texas Tech University, 1985 (85-28586).
- Mongeon, J. E. *Using Information Technology to Manage Towards Excellence*, Union for Experimenting Colleges, 1986 (86-13913).
- Mustafa, S. H. *Microcomputer-Based Information Storage and Retrieval Systems: An Exploratory Study on the Use of Microcomputers in University Libraries*, University of Pittsburgh, 1985 (86-03905).
- Namm, D. S. *The Trustworthiness of U. S. Management: A Credibility Analysis of Middle Managers' Use of Microcomputers in an Industrial Organization*, University of Pittsburgh, 1985 (85-24094).
- Nelson, R. R. *Education of the CBIS User Community: An Exploratory Study*, University of Georgia, 1985 (86-06072).
- Nilakanta, S. *Data Base Design Methods: A Field Study of Their Practice and Impact on the Implementation of Data Base Systems*, University of Houston, 1985 (86-16396).
- Novotny, E. J. *Transborder Data Flows and World Public Order: Law and Policy Problems in Controlling Global Computer Communication Technology*, Georgetown University, 1985 (86-13945).
- Ober, S. P. *The Tortoise and the Hare Revisited: A Field Research Study on Practitioner Attributions Regarding Organizational Factors Which Influence Information Services Management Configuration*, Boston University, 1986 (86-09286).
- Palko, J. B. *The Effects of Problem Structure and Dialogue Type on the Performance of the Man/Machine Interface*, Texas A&M University, 1986 (86-14987).
- Palvia, S. *An Experimental Investigation Into Resistance to Change Due to the Implementation of a Decision Support System for the Unfreezing, Moving, and Refreezing Stages of Change*, University of Minnesota, 1986 (86-15126).
- Pan, S. J. *An Equational Approach to Decision Support Systems*, Purdue University, 1986 (86-22202).
- Park, C. *Development of a Microcomputer-Based Environmental Information Management System for Less Developed Countries: A Case Study of Korea*, State University of New York, 1985 (85-20154).
- Park, S. Y. *A Generalized Intelligent Problem Solving System Based on a Relational Model for Knowledge Representation*, University of Arizona, 1986 (86-13829).
- Pati, M. C. *Decision Support System for Capacity Planning and Operational Design*, Case Western Reserve University, 1986 (86-11463).
- Perry, O. D. *Factors Influencing Personal Computer System Utilization by Small Business Executives*, United States International University, 1986 (86-16237).
- Peschke, R. E. *A Structured Optimization Method for Information Resource Management*, University of Houston, 1985 (86-16393).
- Pizani, S. L. S. *Information Requirements Definition Techniques: A Comparison and a Synthesis*, Case Western Reserve University, 1986 (86-11450).
- Raghunathan, T. S. *An Empirical Evaluation of Information Systems Planning and Its Relationship to Information Systems Performance*, University of Pittsburgh, 1985 (86-00651).
- Rapanos, J. M. "Top-Down" *Management Information Systems Planning*, Pace University, 1985 (86-02136).
- Rascati, K. L. *Multidimensional Work Sampling to Evaluate the Effects of Computerization in an Outpatient Pharmacy*, Georgetown University, 1986 (86-18667).
- Ridjanovic, D. *Comparing Quality of Data Representations Produced by Nonexperts Using Logical Data Structure and Relational Data Models*, University of Minnesota, 1986 (86-08907).
- Roberts, D. P. *The Procurement of a Microcomputer-Based Automated System for Acquisition Management Operations*, Vanderbilt University, 1986 (86-19617).
- Rorvig, M. E. *An Experiment in Human Preferences for Documents in a Simulated Information System*, University of California-Berkeley, 1985 (86-10185).
- Rubinyi, R. M. *The Effects of the Introduction of Microcomputers on the Communication and Information Behavior of Community Based Nonprofit Organizations*, University of Wisconsin-Madison, 1985 (86-01560).
- Rucker, R. H. *A Conceptual Database Design and Analysis Methodology*, Arizona State University, 1986 (86-22037).
- Saarinen, A. L. *Dispersed Recreation User Information Systems: Assessing the Role of Automation*, University of Washington, 1986 (86-13210).
- Salzman, H. *The New Merlins or Taylor's Automations? Computer Technology, Skill and*

- the Labor Process*, Brandeis University, 1986 (86-17026).
- Samuel, E. K. *Developing Computerized Information Systems for Art Museums*, New York University, 1986 (86-14346).
- Schooley, R. E. *The Relationship Between the Importance of Selected Systems Analysis and Design Tools and Job Functions as Perceived by Industrial Systems Analysts and University-Level Information Systems Educators*, Oklahoma State University, 1985 (86-11564).
- Schwartz, D. R. *Formatting Effects on the Use of Computer-Generated Alphanumeric Displays: The Moderating Effects of Task Characteristics*, Rice University, 1986 (86-17482).
- Sen, T. K. *The Effects of Query Response Presentation on Decision Processes*, University of Iowa, 1985 (86-11142).
- Silver, L. D. *An Empirical Investigation of Productive Video Display Terminal Use*, University of Pittsburgh, 1985 (85-24100).
- Silver, M. S. *Differential Analysis for Computer-Based Decision Support*, University of Pennsylvania, 1986 (86-14874).
- Smith, E. P. *A Case Study of a Consortium Process for Developing a Joint Management Information System: 1977-1984*, Georgia State University, 1985 (85-21707).
- Smith, J. Y. *Communication Quality in Information Systems Development: The Effect of Computer-Mediated Communication on Task-Oriented Problem Solving*, North Texas State University, 1986 (86-16055).
- Smith, R. D. *Biomass Storage, Decision Support Systems and Expert Systems in Crop Production and Processing*, Purdue University, 1985 (85-29325).
- Snell, J. L. *A Systems Model of Cognition for Improving Human Factors of Computing Environments*, State University of New York-Binghamton, 1986 (85-27918).
- Soderston, C. *A Study of Spatial Models and Human Navigation Within Complex Computer Interfaces*, Rensselaer Polytechnic Institute, 1986 (86-19997).
- Spielman, H. A. *The Impact of Computer Graphics on Decision Making*, Boston College, 1985 (85-22291).
- Srinivasan, V. *Designing a Decision Support System for Working Capital Management*, University of Cincinnati, 1985 (86-05508).
- Stakenas, J. A. *The Impact of Microcomputer Utilization on the Organizational Structure of Student Service Units in Higher Education Institutions*, University of Nebraska-Lincoln, 1985 (85-26633).
- Stark, S. A. *An Appraisal of the Riverside County Special Education Local Plan Area Management Information System*, University of Southern California, 1985.
- Strony, L. P. *An Assessment of Attitudes Toward Computers Among Infection Control Practitioners: The Effects of an Educational Measure of Persuasive Communication*, University of Pennsylvania, 1985 (86-03709).
- Suing, D. E. *Using Evaluability Assessment to Improve an Accounting Information System*, University of Southern California, 1986.
- Tabibzadeh, K. *An Expert System Approach to Material Handling Problems*, University of Houston, 1985 (85-28718).
- Teer, F. P. *An Investigation of Empathic Disposition as a Barrier to Interpersonal Communication Between Information Systems Users and Personnel*, Louisiana Tech University, 1985 (86-02000).
- Tirupatikumara, S. R. *Artificial Intelligence Techniques in Facilities Layout Planning: The Development of an Expert System*, Purdue University, 1985 (86-06620).
- Toraskar, K. V. *The Effects of Forecasting Evaluation Frameworks on Managerial Decision-Making*, Purdue University, 1985 (86-03712).
- Valusek, J. R. *Information Requirements Determination: An Empirical Investigation of Obstacles Within An Individual*, University of Wisconsin-Madison, 1985 (85-13661).
- Van Norman, M. *Computer Aided Database Management and Performance Prediction for Schematic Design*, University of California-Berkeley, 1985 (85-25142).
- Walls, J. G. *Designing Dependable Information Systems*, University of Michigan, 1985 (86-00571).
- White, C. S. *The Impact of Structured Activities With a Computer-Based File-Management Program on Selected Information-Processing Skills*, Indiana University, 1985 (86-07448).
- Yen, C. D. *Design of a Decision Support System Using Expert System Techniques*, University of Nebraska-Lincoln, 1985 (85-26607).