MIS Doctoral Dissertations: 1988

Editor's Note:

Each year the **MIS Quarterly** *publishes a listing of recent MIS dissertations. The initial list covered MIS dissertations written between 1973 and 1980 and has been updated annually to provide a complete, up-to-date index of 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 111 dissertations. Copies of the dissertations may be obtained through University Microfilms.

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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 topics, research methodology, and findings.

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[1] Hamilton, S., Ives, B., and Davis, G.D. "MIS Doctoral Dissertations: 1973-1980," *MIS Quarterly* (5:2), June 1981, pp. 61-83.

Dissertation Bibliography

Allen, M.K. *The Development of an Artificial Intelligence System for Inventory Management Using Multiple Experts,* The Ohio State University, 1986 (86-25175).

Amoroso, D.L. *Effectiveness of End-User Developed Applications in Organizations: An Empirical Investigation,* University of Georgia, 1986 (87-06846).

Anderson C.W. *The Relationship Between Personality Characteristics and Attitudes Toward Computer Technology,* United States International University, 1987 (87-15379).

Barker, C.M. *Regression Methodology for the Evaluation of a Medical Information System,* University of Illinois at Chicago, 1987 (87-12356).

Basu, A. *Imprecise Reasoning in Intelligent Decision Support Systems,* The University of Rochester, 1986 (87-08218).

Bateson, A.G. *Differences in the Structure of Semantic Knowledge for Computer Programmers of Different Levels of Skill,* The University of Akron, 1987 (87-04750).

Beath, C.M. *Managing the User Relationship in Management Information Systems Projects: A Transaction Governance Approach,* University of California, Los Angeles, 1986 (86-29872).

Bedard, J. *Internal Control Evaluation in Computerized Systems: Experts versus Novices,* University of Southern California, 1986.

Bedard, Y. *A Study of the Nature of Data Using a Communication-Based Conceptual Framework of Land Information Systems,* University of Maine, 1986 (87-03319).

Bennett, C.J. *Regulating the Computer: A Comparative Study of Personal Data Protection Policy,* University of Illinois at Urbana-Champaign, 1986 (87-01434).

Blide, L.A. *Effect of Computerization of Health Information on Competency Requirements for Medical Record Administrators,* Seattle University, 1986 (86-24327).

Blouch, W.E. *EDP Controls to Maintain Data Integrity in Distributed Processing Systems,* Kent State University, 1987 (87-12466).

Bovich, E.P. *Marketing Management Decision Making and the Role of Decision Support Systems,* The University of Michigan, 1987 (87-14075).

Bronson, D.E. *Implementing Computer Systems in Social Service Agencies: An Analysis of Costs and Benefits for the Direct Service

Staff, The University of Michigan, 1986 (87-02693).

Bui, T.X. *Co-op: A Decision Support System for Cooperative Multiple Criteria Group Decision Making,* New York University, Graduate School of Business Administration, 1986 (87-08604).

Castaneda, G.G. *Human Response Time, Computer Anxiety, Computer Attitudes, and Performance,* Texas Tech University, 1986 (87-07903).

Cho, Y. *Implementation and Management of the Information Center: An Exploratory Study,* The University of Nebraska-Lincoln, 1986 (86-29526).

Clemens, A.H. *Managerial Control and On-Line Processing at a Large Insurance Firm,* University of Toronto (Canada), 1986.

Cohen, P.S. *The Technology of Information Use and Land Use Management — The Shoreland Management Program and the Minnesota Land Management Information System,* University of Minnesota, 1986 (86-25880).

Crawford, J.B. *An Investigation of Strategies for Supporting and Controlling User Development of Computer Applications,* University of California, Irvine, 1986 (86-26826).

Curt, C.L. *Human Factors in Computerized Medical Systems,* Loyola University of Chicago, 1987 (87-04836).

Davis, D.K. *The Application of Information Systems Auditing Techniques to Telecommunications Network Environments — An Analysis of Key Issues in Distributed Systems Audit Engagement Planning,* University of Houston, 1986 (87-03906).

DeMaio, C.J. *The Effects of Task Relevant Training and Pre-experimental Experience on Frequency of Computer Use,* Hofstra University, 1986 (87-10825).

Dewan, R.M. *On Combined Logical and Physical Design of Databases,* The University of Rochester, 1986 (87-08223).

Dixon, E.E. *A Computer Based Method for the Study of A Decision-Making Process Using Expert-Novice Modes,* Rutgers University - The State University of New Jersey, New Brunswick, 1986 (86-26942).

Elmore, R.C. *A Contingency Theory Approach to an Empirical Classification of Management Accounting Information Systems,* The University of Mississippi, 1986 (86-24087).

Fandt, P.M. *An Organizational Investigation of the Effects of Accountability and Ambiguity on Information Management in the Decision-Making Process,* Texas A&M University, 1986 (86-25388).

Fjeldstad, O.D. *On the Reapportionment of Cognitive Responsibilities in Information Systems,* The University of Arizona, 1987 (87-16352).

Forsyth, A.L. *The Politics of Technological Development: A Case Study of Telidon. The Problems and Prospects of Interactive Information Systems,* York University (Canada), 1986.

George, J.F. *Computers and the Centralization of Decision-Making in U.S. City Governments,* University of California, Irvine, 1986 (86-26831).

Gholamabbas, A.A. *The Relationship Between Computer User Attitudes and User Perceptions of Computer Response Time,* United States International University, 1987 (87-15389).

Harbison-Moss, K.A. *Maintaining Current Status in a Time-Constrained Knowledge-Based System Characterized by Continuously Incoming Temporal Data,* The University of Texas at Arlington, 1986 (87-01292).

Hart, P. J. *The Use and Role of Commercial Online Databases in Four Organizations,* University of Southern California, 1987.

Hill, M.M. *The Relationship Between User Involvement and Decision Support System Success,* University of Georgia, 1987 (87-12667).

Hsu, W.W. *A Programming Language System for Decision Support Systems,* Purdue University, 1986 (87-00900).

Hudson, S.E. *A User Interface Management System Which Supports Direct Manipulation,* University of Colorado at Boulder, 1986 (87-00356).

Im, J.H. *An Empirical Examination of the Kanban Approach to Manufacturing Information Systems in U.S. Firms,* The University of Nebraska-Lincoln, 1986 (86-24595).

Jacob, V.S. *A Model of Decision-Making for the Integrated Human-Computer Information Processor,* Purdue University, 1986 (87-00905).

Janenko, P.M. *The Quest for Improved Organizational Information Processing,* Nova University, 1986 (87-02923).

Jeffery, D.R. *A Comparison of Models Describing Third and Fourth Generation Software Development Environments, with Implications for Effective Management,* University of New South Wales (Australia), 1986.

Jelassi, M.T. *An Extended Relational Database for Generalized Multiple Criteria Decision Support Systems,* New York University, 1986 (87-00405).

Jordan, D.L. *The Investigation and Development of an Interactive Information System for Software Project Management,* University of Houston, 1985 (87-09178).

Kang, Y.M. *Economic Analysis of Computer Performance,* The University of Wisconsin-Madison, 1986 (86-28672).

Kelley, J.J. *An Analysis of Attitudes of Public School Principals Toward the Use of Computers in Their Workspace: A Case Study of an Urban School System,* University of Massachusetts, 1986 (86-22585).

Ketcham, M.G. *Computer Simulation as a Decision Support Tool,* Texas A&M University, 1986 (86-25404).

Kettelhut, M.C. *An Investigation of the Effects of Cognitive Style and Graphic or Numeric Data Presentation Formats on Decision Making Performance,* The University of Texas at Arlington, 1986 (86-21736).

Kim, K.K. *Technological Implications for the Organizational Structure of Hospital Information Systems Departments,* The University of Utah, 1986 (86-26618).

Kraemer, J.R. *Administrative Control by Expert System: A Framework for Expert Systems in Management,* The University of Oklahoma, 1987 (87-13824).

Kreutzer, A.N. *The Use of Object-Oriented Language as a Tool for Information Systems Requirements Definition,* Lehigh University, 1987 (87-14676).

Lance, K. *A Contrast of the Thinking Strategies Elicited by the Use of the Information Processing Technologies of Print and Computer,* United States International University, 1986 (87-05043).

Larson, R.R. *Workload Characteristics and Computer System Utilization in Online Library Catalogs,* University of California, Berkeley, 1986 (86-24828).

Lauer, T.W. *The Effects of Variations in Information Complexity and Form of Presentation on Performance for an Information Extraction Task,* Indiana University, 1986 (86-28001).

Lee, J.B. *Intelligent Decision Support Systems for Business Applications: With An Example of Portfolio Management Decision Making,* New York University, Graduate School of Business Administration, 1986 (87-00409).

Lehle, L.B. *Organizational Impact of Information Technology on the Distribution of Decision-Making Power in State Legislatures,* Michigan State University, 1986 (87-00491).

Liang, T. *Toward the Development of a Knowl-edge-Based Model Management System,* University of Pennsylvania, 1986 (87-03235).

Lutz, M.W. *The Design and Evaluation of a Methodology to Generate Programs which Interface with a Medical Database,* Duke University, 1986 (87-00024).

Lynch, T.J. *The Impact of Computer Usage on the Social Interaction Patterns of Intense Computer Users and Programmers,* Boston University, 1986 (86-26331).

Mackinlay, J.D. *Automatic Design of Graphical Presentations,* Stanford University, 1987 (87-07696).

Magal, N.R. *An Empirical Investigation of Critical Success Factors Applicable to Information Centers,* University of Georgia, 1987 (87-12675).

Mahoney, E.M. *Negotiating New Information Technology and National Development: The Role of the Intergovernmental Bureau for Informatics,* Temple University, 1987 (87-11370).

Mann, G.J. *Effects of Human Needs, Group Influence, and Management Style on Change-Related Behavioral Intentions in Information Systems,* Texas Tech University, 1986 (86-27701).

Mawhinney, C.H. *Factors Affecting the Utilization of Personal Computers by Managers and Executives,* University of Pittsburgh, 1986 (86-20210).

McIntyre, S.C. *Plexplan: An Integrated Intelligent Environment for Information Systems Planning,* The University of Arizona, 1986 (86-24361).

McKerrow, P.J. *Computer Systems Performance Measurement: Theory and Practice,* University of Wollongong (Australia), 1984.

Menon, K.K. *Error Detection in Computer Software,* The Pennsylvania State University, 1986 (86-23784).

Michels, J.B. *A Software Planning and Development Methodology with Resource Allocation Capability,* Texas A&M University, 1986 (87-07446).

Muntoro, R.K. *The Use of Organization Behavior Methods in the Development of Computerized Accounting Systems in Indonesia: An Attitudinal Survey,* University of Southern California, 1987.

Neuman, S.G. *The Influence of Management Information Systems in Strategic Planning for Collection Development in Academic Libraries,* University of Pittsburgh, 1986 (87-12571).

Padman, R. *An Optimization Based Intelligent Decision Support System for Logistics Planning,* The University of Texas at Austin, 1986 (87-00261).

Park, G. *Interactive Design Optimization with Modern Database Management Concepts,* The University of Iowa, 1986 (86-28139).

Parmelee, W.M. *Video Display Terminals and Psychological Stress: A Study of the Acclimation Process,* Western Michigan University, 1986 (87-03916).

Payette, D.L. *The Use of Computer Technology by Senior Administrators in Colleges and Universities,* New York University, 1987 (87-12497).

Pham, D.V. *Computer-Aided Diagnosis of Organizational Performance: An Exploratory Study,* University of Arkansas, 1986 (86-18117).

Picciano, A.G. *Computerized Support for Decision Making in Higher Education: Case Studies of Five Private Colleges,* Fordham University, 1986 (86-24501).

Price. R.V. *An Assessment of Computer Anxiety and a Profile of Individuals Who Experience It,* Georgia State University - College of Education, 1986 (87-03963).

Pyle, K.J. *An Empirical Examination of Critical Success Factors for User Based Implementation Projects in Management Information Systems,* The University of Nebraska-Lincoln, 1986 (86-29538).

Reuber, A.R. *The Conceptual Modelling of a Decision Support System Generator for Qualitative Organizational Information,* Queen's University at Kingston (Canada), 1986.

Roche, E.M. *The Computer Communications Lobby, The U.S. Department of State Working Group on Transborder Data Flows and Adoption of the O.E.C.D. Transborder Data Flows of Personal Data,* Columbia University, 1987 (87-10220).

Rowley, T.H. *Evaluation of Organizational Effectiveness in a Management Information Systems Environment,* The University of Utah, 1987 (87-13289).

Sambharya, R.B. *The Impact of Transborder Data Flows Regulations on the Strategy and Operations of U.S. Based Multinational Corporations,* Temple University, 1987 (87-11403).

Saunders, J.D. *Development, Implementation and Evaluation of a Computerized Student Information System for Limited English Proficient Students,* New Mexico State University, 1986 (86-26086).

Schaffer, E.M. *Addition of Goal Setting and Knowledge of Results to Human-Computer Interfaces,* Stevens Institute of Technology, 1986 (86-24172).

Schmoldt, D.L. *Evaluation of an Expert System Approach to Forest Pest Management of Red Pine (Pinus Resinose),* The University of Wisconsin-Madison, 1987 (87-08112).

Schuldt, B.A. *Comparing Decision Support System Structure to Decision Making Effectiveness: A Field Experiment in the Nebraska State Patrol's Investigative Services Division,* The University of Nebraska-Lincoln, 1986 (86-29540).

Scoggins, S.C. *The Methodologies of System Analysis and Design for Computer Integrated Manufacturing (CIM),* Texas Tech University, 1986 (87-07923).

Scogin, D.N. *Toward a Theory of the Acquisition of Computer-Aided Technologies Via Computer Simulation Modeling,* Tufts University, 1986 (87-02395).

Shangraw, R.F., Jr. *Information Choice and Policy Decision-Making,* Syracuse University, 1986 (86-25851).

Skolyan, K.S. *Assessing and Forecasting the Implications of Artificial Intelligence Systems on Pedagogy in the Public Sector,* United States International University, 1987 (87-11457).

Sokol, M.B. *Innovation Utilization: The Implementation of Personal Computers in an Organization,* University of Maryland, 1986 (86-25741).

Steele Hanson, A.M. *Critical Thinking Ability of Novice and Expert Computer Programmers,* University of Idaho, 1986 (86-28371).

Stevens, J.H. *The Development of a Management Information System for a Medical University's 'In-House' Employee Assistance Program,* Rutgers University - The State University of New Jersey, New Brunswick, 1985 (86-14561).

Storey, V.A. *An Expert View Creation System for Database Design,* The University of British Columbia (Canada), 1986.

Straub, D.W., Jr. *Deterring Computer Abuse: The Effectiveness of Deterrent Countermeasures in the Computer Security Environment,* Indiana University, Graduate School of Business, 1986 (87-10538).

Sviokla, J.J. *Planpower, Xcon, and Mudman: An In-Depth Analysis into Three Commercial Expert Systems in Use,* Harvard University, 1986 (86-29661).

Swanson, C.T. *The Impact of Color-Enhanced Information with Cognitive Style on Information Perception and Information Utilization,* Georgia State University, College of Business Administration, 1985 (86-18223).

Tang, H. *Graspers — A Graphics Decision Support System: Its Development and Applications,* The University of Nebraska-Lincoln, 1986 (86-24618).

Tarallo, B.M. *The Production of Information: An Examination of the Employment of Software Engineers and Computer Programmers,* University of California, Davis, 1987 (87-14198).

Taylor, R.A. *Using Multiple Dialog Modes in a User-System Interface to Accommodate Different Levels of User Experience: An Experimental Study,* The University of Texas at Austin, 1986 (87-06113).

Thomson, N.S. *Organizational Culture, Decision Support Systems, and User Characteristics,* The University of Nebraska-Lincoln, 1987 (87-15857).

Togo, D.F. *The Matching of Decision Support Systems to Tasks and Its Effect on Decision Making,* Arizona State University, 1986 (86-22369).

Tran, H.V. *An Assessment of Decision Support Systems Design Strategies,* University of Houston, 1986 (87-03904).

Tyagi, R. *A Computer-Based DSS for Funds Management in a Large State University Environment,* Virginia Polytechnic Institute and State University, 1986 (87-04702).

Ugbah, S.D. *Computer Mediated Communication Systems: The Impact on Organizational Climate, and Information Adequacy in Organizational Settings,* Ohio University, 1986 (87-02369).

Umstott, M.L. *A Study of the Relationship of Self-Perceived Leadership Effectiveness and Style to Job Satisfaction of Data Processing and Operational Management Personnel,* The American University, 1985 (86-25122).

Valdez, R.L. *Factors Affecting Amount and Type of Use of a Computer-Based Message System,* Claremont Graduate School, 1987 (87-13507).

Vogel, D.R. *An Experimental Investigation of the Persuasive Impact of Computer Generated Presentation Graphics,* University of Minnesota, 1986 (86-25921).

Wafa, M.A. *An Investigation into the Factors Influencing the Success of Decision Support Systems in the Construction Industry,* Clemson University, 1986 (87-07359).

Widmeyer, G.R. *Preference Directed Reasoning in Decision Support Systems,* The University of Texas at Austin, 1986 (87-06126).

Wilkes, R.B. *Assessment of the Information Systems Organization: An Empirical Investigation of Assessor Perspectives,* University of Minnesota, 1987 (87-10317).

Yoder, C.M. *An Expert System for Providing On-Line Information Based on Knowledge of Individual User Characteristics,* Syracuse University, 1986 (87-01283).

Zacarias, P.T. *A Script-Based Knowledge Representation for Intelligent Office Information Systems,* Purdue University, 1986 (87-09879).