

# MANAGEMENT INFORMATION SYSTEMS QUARTERLY

## Table of Contents

MARCH 1979

Volume 3, Number 1

EDITORIAL PREVIEW .....	iii
-------------------------	-----

### INTERVIEW

G.B. Mitchell, President, and S.W. Gustafson, Executive Vice President, Dana Corporation .....	1
---	---

### APPLICATION

"Heuristic Development: A Redesign of Systems Design," Thomas R. Berrisford, Central Region for Software A.G., and James C. Wetherbe, Houston Oil and Mineral, Inc. ....	11
--	----

*Proposes a major modification to the traditional systems development process covering behavioral, technical, and operational issues, and provides several case studies.*

"Cryptographic Protection of Computer-based Data Files," Thomas J. Murray, University of Missouri-St. Louis .....	21
--	----

*Explores the implications of computer oriented implementations of cryptographic protection and discusses the significance of this transformation for information systems.*

"A Framework for MIS Software Development Projects," Jeffrey H. Moore, Stanford University .....	29
---	----

*Questions the assumption that computer software development is the same across differing tasks, presents a proposition, and demonstrates validity from an industrial study.*

### THEORY AND RESEARCH

"A User's Behavior Toward His MIS," Alexander M. Maish, The American University .....	39
--	----

*Describes a study of four Federal Agencies to determine associations between agency behavior toward their systems and their feelings toward the systems staff, management support, and other factors.*

"A Team Approach to Managing the Development of a Decision Support System," William B. Locander, H. Albert Napier, Richard W. Scamell, University of Houston .....	53
<i>Presents a team-oriented structure for developing a DSS to reduce            problems commonly encountered during the definition, design,            and implementation stages.</i>	
<b>FROM OUR READERS .....</b>	<b>65</b>
<b>INFORMATION FOR AUTHORS .....</b>	<b>67</b>
<b>SMIS '79 NATIONAL CONFERENCE PREVIEW .....</b>	<b>71</b>