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Microcomputer Decision Support Systems Design Implementation And Evaluation

Nikolaos F. Matsatsinis, Y. Siskos



Microcomputer Decision Support Systems Design Implementation And Evaluation:

Microcomputer Decision Support Systems Stephen J. Andriole,1986 *Microcomputer Decision Support Systems* Stephen J. Andriole,1986 **Microcomputer Decision Support Systems** Stephen J. Andriole,1993-09-24 **Annual Report** U.S. Army Research Institute for the Behavioral and Social Sciences,1987 **Information Technology Management** Jay Liebowitz,1998-07-27 Mainly based on the author s personal experiences with a variety of organizations this succinct book presents short cases anecdotes and vignettes describing the management of information technology Information Technology Management includes numerous case studies primarily focusing on business industry and government systems This singular resource serves expert systems managers and information technology managers and developers Although the material emphasizes those cases involving management relating to expert systems technology the reader can replace the term expert system with information system technology in almost all the case studies as many of the lessons generally hold true for information systems **EuSEC 2000** Herbert Negele,2000 **Mathematical Models for Decision Support** Harvey J. Greenberg,Gautam Mitra,Freerk A. Lootsma,Marcel J. Rijckaert,Hans J. Zimmermann,2012-12-06 It is quite an onerous task to edit the proceedings of a two week long institute with learned contributors from many parts of the world All the same the editorial team has found the process of refereeing and reviewing the contributions worthwhile and completing the volume has proven to be a satisfying task In setting up the institute we had considered models and methods taken from a number of different disciplines As a result the whole institute preparing for it attending it and editing the proceedings proved to be an intense learning experience for us Here I speak on behalf of the committee and the editorial team By the time the institute took place the papers were delivered and the delegates exchanged their views the structure of the topics covered and their relative positioning appeared in a different light In editing the volume I felt compelled to introduce a new structure in grouping the papers The contents of this volume are organised in eight main sections set out below 1 Abstracts 2 Review Paper 3 Models with Multiple Criteria and Single or Multiple Decision Makers 4 Use of Optimisation Models as Decision Support Tools 5 Role of Information Systems in Decision Making Database and Model Management Issues 6 Methods of Artificial Intelligence in Decision Making Intelligent Knowledge Based Systems 7 Representation of Uncertainty in Mathematical Models and Knowledge Based Systems 8 Mathematical Basis for Constructing Models and Model Validation Encyclopedia of Computer Science and Technology Allen Kent,James G. Williams,1990-08-20 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions *Failsafe Control Systems* K. Warwick,M.T. Tham,2012-12-06 11 2 Study objectives 147 11 3 Approach to analysis 147 11

4 Presentation and discussion of results 151 11 5 Conclusions 165 12 Accident management and failure analysis G C Meggitt 170 12 1 Introduction 170 12 2 Nuclear safety 170 12 3 The accident 171 12 4 The accident response 171 12 5 The automatic response 171 12 6 The tailored response 173 12 7 The emergency plan 181 13 Decision support systems and emergency management M Grauer 182 13 1 Introduction 182 13 2 The problem 183 13 3 The multiple criteria approach 184 3 13 4 Overview of the 1 decision support software 186 13 5 A case study from chemical industry 189 13 6 Conclusions 195 References 196 14 Safety integrity management using expert systems Dr P Andow 198 14 1 Introduction 198 14 2 Safety and risk analysis 198 14 3 The effects of applying safety and risk analysis 199 14 4 Safety integrity management 201 14 5 Knowledge base contents 204 14 6 Summary of system functions 204 14 7 Discussion 205 References 205 15 Power system alarm analysis and fault diagnosis using expert systems P H Ashmole 207 15 1 Introduction 207 15 2 Expert systems for power system alarm analysis already developed 208 15 3 Existing substation control arrangements 209 15 4 Discussion of alarm data flow 210 15 5 Expert system requirements 210 15 6 User interface 211 15 7 Requirements under different fault conditions 211 15 Decision Support Systems Engineering Andrew P. Sage, 1991 Provides a comprehensive discussion of the design and use of decision support systems It describes the generic technological components of such systems emphasizing system requirements analysis and specification the use of alternative analytical methods and how systems can be evaluated It then discusses the formulation of user needs their translation into system requirements the hardware and software allocation of these requirements and the development of suitable hardware and software architectures

Handbook for Evaluating Knowledge-Based Systems Leonard Adelman, Sharon L. Riedel, 2012-12-06 Knowledge based systems are increasingly found in a wide variety of settings and this handbook has been written to meet a specific need in their widening use While there have been many successful applications of knowledge based systems some applications have failed because they never received the corrective feedback that evaluation provides for keeping development focused on the users needs in their actual working environment This handbook provides a conceptual framework and compendium of methods for performing evaluations of knowledge based systems during their development Its focus is on the users and subject matter experts evaluation of the usefulness of the system and not on the developers testing of the adequacy of the programming code The handbook permits evaluators to systematically answer the following kinds of questions Does the knowledge based system meet the users task requirements Is the system easy to use Is the knowledge base logically consistent Does it meet the required level of expertise Does the system improve performance The authors have produced a handbook that will serve two audiences a tool that can be used to create knowledge based systems practitioners developers and evaluators and a framework that will stimulate more research in the area academic researchers and students To accomplish this the handbook is built around a conceptual framework that integrates the different types of evaluations into the system of development process The kinds of questions that can be answered and the methods available for answering

them will change throughout the system development life cycle And throughout this process one needs to know what can be done and what can't It is this dichotomy that addresses needs in both the practitioner and academic research audiences

Intelligent Support Systems for Marketing Decisions Nikolaos F. Matsatsinis, Y. Siskos, 2012-12-06 Intelligent Support Systems for Marketing Decisions examines new product development market penetration strategies and other marketing decisions utilizing a confluence of methods including Decision Support Systems DSS Artificial Intelligence in Marketing and Multicriteria Analysis The authors systematically examine the use and implementation of these methodologies in making strategic marketing decisions Part I discusses the basic concepts of multicriteria analysis vis vis marketing decisions and in new product development situations Part II presents basic concepts from the fields of Information Systems Decision Support Systems and Intelligent Decision Support Methods In addition specialized categories of DSS multicriteria DSS web based DSS group DSS spatial DSS are discussed in terms of their key features and current use in marketing applications Part III presents IDSS and a multicriteria methodology for new product development Further chapters present a developmental strategy for analyzing designing and implementing an Intelligent Marketing Decision Support System The implementation discussion is illustrated with a real world example of the methods and system in use System Design

William B. Rouse, Kenneth R. Boff, 1987 Introduction and overview Workshop themes and issues the psychology of system design Effects of technological and organizational trends on system design Designers tools and environments State of knowledge unresolved issues and potential directions An experimental view of the design process The tower of Babel revisited On cross disciplinary chokepoints in system design Psychology or reality Some intellectual requirements for system design The changing nature of the human machine design problem implications for system design and development Designing in virtual space The difficulties of design problem formulation The role of man in the system design process The unresolved dilemma Analytical versus recognition approaches to design decision making Unified life cycle engineering Information technology and other factors in system design On nature of design and an environment for design Toward a more systematic efficient design process the potential impact of intelligent design Aids A cognitive theory of design and requirements for a behavioral design aid Designing for user acceptance of design aids Engineering design support systems Designers decision making and decision support Knowledge skills and information requirements for systems design Intuition by design The nature of design and the designer **Decision Support and Expert Systems** Efraim Turban, 1990 **Data**

Envelopment Analysis: Theory, Methodology, and Applications Abraham Charnes, William W. Cooper, Arie Y. Lewin, Lawrence M. Seiford, 2013-12-01 This book represents a milestone in the progression of Data Envelopment Analysis DEA It is the first reference text which includes a comprehensive review and comparative discussion of the basic DEA models The development is anchored in a unified mathematical and graphical treatment and includes the most important modeling extensions In addition this is the first book that addresses the actual process of conducting DEA analyses including

combining DEA and 1 parametric techniques The book has three other distinctive features It traces the applications driven evolution and diffusion of DEA models and extensions across disciplinary boundaries It includes a comprehensive bibliography to serve as a source of references as well as a platform for further developments And finally the power of DEA analysis is demonstrated through fifteen novel applications which should serve as an inspiration for future applications and extensions of the methodology The origin of this book was a Conference on New Uses of DEA in 2 Management and Public Policy which was held at the IC Institute of the University of Texas at Austin on September 27-29 1989 The conference was made possible through NSF Grant SES 8722504 A Charnes and 2 W W Cooper co PIs and the support of the IC Institute

Building A Global Information Assurance Program Raymond J Curts, Douglas E. Campbell, 2017-07-27 Governments their agencies and businesses are perpetually battling to protect valuable classified proprietary or sensitive information but often find that the restrictions imposed upon them by information security policies and procedures have significant negative impacts on their ability to function These government and business entities are *Counterfeit Deterrent Features for the Next-Generation Currency Design* National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Commission on Engineering and Technical Systems, Committee on Next-Generation Currency Design, 1993-02-01 Traditionally counterfeit deterrent features restricted counterfeiting to only the dedicated craftsman With the advent of highly sophisticated reprographic systems this is no longer true Redesign of U S banknotes is necessary in order to incorporate additional features aimed at discouraging counterfeiting using advanced copiers scanners printers This volume evaluates a large number of such features while recommending a comprehensive national strategy for anticipating and responding to counterfeiting threats

Evaluating Decision Support and Expert Systems Leonard Adelman, 1992 Decision Support Systems Engineering Andrew P Sage This practical guide describes the everyday nuts and bolts to building a decision support system that unites the concerns of both system designers and users Beginning with an outline of the generic components of a decision support system readers are given a technologically rigorous yet clear tour of its assembly line basics Data base management systems model base management systems and dialog generation and management systems are clearly described with emphasis on how these make a decision support system feasible and practical 1991 0 471 53000 X 360 pp Software Systems Engineering Andrew P Sage and James D Palmer This unique text provides a thorough introduction to all aspects of the developmental life cycle of software production For those interested in applying a systems based approach to software development Software Systems Engineering discusses key aspects of such an approach from software quality software reliability and development environments to integration maintenance management and cost analysis The book's practical look features a set of tools instrumental to success in each life cycle phase as well as a taxonomy of methods for making the productivity tools available and subject to wider use 1990 0 471 61758 X 544 pp Design for Success A Human Centered Approach to Designing Successful Products and Systems William B Rouse Drawn from

methods tested in a wide array of industries aviation the process and power industries manufacturing the marine industry and communications this important text details how to design products and systems that are market driven and user oriented Using a variety of methods and tools illustrated with case studies Design for Success outlines a concrete human centered approach to the design of complex systems This new approach to system design includes a look at understanding users needs design and engineering evaluation of product and systems and more 1991 0 471 52483 2 304 pp **The Dynamics of**

Decision Support Systems and Expert Systems Jay Liebowitz, 1990 In most business information systems curricula either a course on decision support systems DSSs or a separate track in DSSs has been established Decision support systems have been around since the early 1970s and their proliferation and use in homes and businesses have increased dramatically over the years In recent years however the impact of artificial intelligence particularly expert systems ESs has accelerated DSS technology its applications design methodologies and implementation strategies The goal of this book is to explain DSSs and ESs the relationships between these two applied technologies their synergistic effects upon each other and their differences and to show what effect their interaction has had on the framework processes and technical components for building DSSs

Data Mining for Design and Marketing Yukio Ohsawa, Katsutoshi Yada, 2009-01-26 Data Mining for Design and Marketing shows how to design and integrate data mining tools into human thinking processes in order to make better business decisions especially in designing and marketing products and systems The expert contributors discuss how data mining can identify valuable consumer patterns which aid marketers and designers in de

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