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Decision Support, Analytics, and Business Intelligence, Second Edition

Decision Support Systems in the 21st Century

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Understanding Decision Support Systems and Expert Systems McGraw-Hill/Irwin

In modern, information-centric business environments, Decision Making Support Systems (DMSS) present a critical consideration for any organization serious about maintaining competitive advantage. Advances in information systems, knowledge management technologies, and other decision support systems necessitate a critical understanding of the latest trends and research. *Engineering Effective Decision Support Technologies: New Models and Applications* presents a collection of the latest research in DMSS and applies those theoretical considerations to best practices in the field. This reference includes empirical case studies and an analysis of new models and perspectives in knowledge management, promoting discussion of DMSS strategies among managers, researchers, and students of information science.

Decision Support Systems MDPI

Describes how Decision Support Systems (DSS) computer-based systems, and described the steps and components necessary to develop effective DSS.

Clinical Decision Support Systems Addison Wesley Publishing Company

Decision support systems (DSS) are widely touted for their effectiveness in aiding decision making, particularly across a wide and diverse range of industries including healthcare, business, and engineering applications. The concepts, principles, and theories of enhanced decision making are essential points of research as well as the exact methods, tools, and technologies being implemented in these industries. From both a standpoint of DSS interfaces, namely the design and development of these technologies, along with the implementations, including experiences and utilization of these tools, one can get a better sense of how exactly DSS has changed the face of decision making and management in multi-industry applications. Furthermore, the evaluation of the impact of these technologies is essential in moving forward in the future. The *Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering* explores how decision support systems have been developed and implemented across diverse industries through perspectives on the technology, the utilizations of these tools, and from a decision management standpoint. The chapters will cover not only the interfaces, implementations, and functionality of these tools, but also the overall impacts they have had on the specific industries mentioned. This book also evaluates the effectiveness along with benefits and challenges of using DSS as well as the outlook for the future. This book is ideal for decision makers, IT consultants and specialists, software developers, design professionals, academicians, policymakers, researchers, professionals, and students interested in how DSS is being used in different industries.

Real-World Decision Support Systems Business Expert Press

A survival guide for business management professionals, this valuable book helps users learn to make and support managerial decisions wisely and successfully, providing a thorough understanding of the support aspect of DSS. Packed with essential information, it is written from a cognitive processes and decision-making perspective, concentrating on issues that emphasize managerial applications and the implication of decision support technology on those issues. Provides a strong managerial application and use approach throughout, with a "real-world" orientation that emphasizes application and implementation over design and developments in all topic areas. Offers extensive coverage of decision-making theory (decision styles, decision effectiveness, cognitive processes, and organizational culture), and contains full chapters on data mining, data visualization, and creative decisions and problem-solving. A real-life Mini-Case opens each chapter, and concepts are supported throughout with extensive.

Decision Support, Analytics, and Business Intelligence, Second Edition John Wiley & Sons

This open access book comprehensively covers the fundamentals of clinical data science, focusing on data collection, modelling and clinical applications. Topics covered in the first section on data collection include: data sources, data at scale (big data), data stewardship (FAIR data) and related privacy concerns. Aspects of predictive modelling using techniques such as classification, regression or clustering, and prediction model validation will be covered in the second section. The third section covers aspects of (mobile) clinical decision support systems, operational excellence and value-based healthcare. *Fundamentals of Clinical Data Science* is an essential resource for healthcare professionals and IT consultants intending to develop and refine their skills in personalized medicine, using solutions based on large datasets from electronic health records or telemonitoring programmes. The book's promise is "no math, no code" and will explain the topics in a style that is optimized for a healthcare audience.

Decision Support Systems in the 21st Century IGI Global

Ties the traditional view of decision support to the rapidly evolving topics of database management and data warehouse. This book aims to provide a foundation for the use of models within the context of building and using decision support systems, and focuses on multi-dimensional databases and client/server computing.

Building Decision Support Systems McGraw-Hill/Irwin

Decision making arises when we wish to select the best possible course of action from a set of alternatives. With advancements of the digital technologies, it is easy, and almost instantaneous, to gather a large volume of information and/or data pertaining to a problem that we want to solve. For instance, the world-wide web is perhaps the primary source of information and/or data that we often turn to when we face a decision making problem. However, the information and/or data that we obtain from the real world often are complex, and comprise various kinds of noise. Besides, real-world information and/or data often are incomplete and ambiguous, owing to uncertainties of the environments. All these make decision making a challenging task. To cope with the challenges of decision making, researchers have designed and developed a variety of decision support systems to provide assistance in human decision making processes. The main aim of this book is to provide a small collection of techniques stemmed from artificial intelligence, as well as other complementary methodologies, that are useful for the design and development of intelligent decision support systems. Application examples of how these intelligent decision support systems can be utilized to help tackle a variety of real-world problems in different domains, e. g. business, management, manufacturing, transportation and food industries, and biomedicine, are also presented. A total of twenty chapters, which can be broadly divided into two parts, i. e.

Encyclopedia of Decision Making and Decision Support Technologies Wiley-Interscience

What is Decision Support System A decision support system, often known as a DSS, is an information system that assists with the tasks involved in decision-making inside an organization or a business. DSSs are used to service the management, operations, and planning levels of an organization. They assist individuals in making decisions regarding problems that may be subject to rapid change and cannot be easily stated in advance. These types of challenges are known as unstructured and semi-structured decision problems. Decision support systems can either be run entirely by computers, run entirely by humans, or run using a combination of the two. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Decision support system Chapter 2: Knapsack problem Chapter 3: Argument map Chapter 4: Expert system Chapter 5: Predictive analytics Chapter 6: Judge-advisor system Chapter 7: Decision theory Chapter 8: Self-service Chapter 9: Public participation (decision making) Chapter 10: Project management software (II) Answering the public top questions about decision support system. (III) Real world examples for the usage of decision support system in many fields. Who This Book is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond

basic knowledge or information for any kind of decision support system.

Developing Spreadsheet-based Decision Support Systems Prentice Hall

This volume of *Annals of Information Systems* will acknowledge the twentieth anniversary of the founding of the International Society for Decision Support Systems (ISDSS) by documenting some of the current best practices in teaching and research and envisioning the next twenty years in the decision support systems field. The volume is intended to complement existing DSS literature by offering an outlet for thoughts and research particularly suited to the theme of describing the next twenty years in the area of decision support. Several subthemes are planned for the volume. One subtheme draws on the assessments of internationally known DSS researchers to evaluate where the field has been and what has been accomplished. A second subtheme of the volume will be describing the current best practices of DSS research and teaching efforts. A third subtheme will be an assessment by top DSS scholars on where the DSS discipline needs to focus in the future. The tone of this volume is one of enthusiasm for the potential contributions to come in the area of DSS; contributions that must incorporate an understanding of what has been accomplished in the past, build on the best practices of today, and be integrated into future decision making practices.

Foundations of Decision Support Systems Academic Press

This volume of *Annals of Information Systems* will acknowledge the twentieth anniversary of the founding of the International Society for Decision Support Systems (ISDSS) by documenting some of the current best practices in teaching and research and envisioning the next twenty years in the decision support systems field. The volume is intended to complement existing DSS literature by offering an outlet for thoughts and research particularly suited to the theme of describing the next twenty years in the area of decision support. Several subthemes are planned for the volume. One subtheme draws on the assessments of internationally known DSS researchers to evaluate where the field has been and what has been accomplished. A second subtheme of the volume will be describing the current best practices of DSS research and teaching efforts. A third subtheme will be an assessment by top DSS scholars on where the DSS discipline needs to focus in the future. The tone of this volume is one of enthusiasm for the potential contributions to come in the area of DSS; contributions that must incorporate an understanding of what has been accomplished in the past, build on the best practices of today, and be integrated into future decision making practices. The primary questions raised by this volume are: What will information systems-based decision support entail in twenty years? What research is needed to realize the envisioned future of information systems-based decision support? How will the teaching of information systems-based decision support change over the next twenty years? What are the best practices of teaching in the decision support area that can be leveraged to best disseminate DSS knowledge advances to students and practitioners?

Developing Spreadsheet-based Decision Support Systems IGI Global Snippet

This book aims to provide a new vision of how algorithms are the core of decision support systems (DSSs), which are increasingly important information systems that help to make decisions related to unstructured and semi-structured decision problems that do not have a simple solution from a human point of view. It begins with a discussion of how DSSs will be vital to improving the health of the population. The following article deals with how DSSs can be applied to improve the performance of people doing a specific task, like playing tennis. It continues with a work in which authors apply DSSs to insect pest management, together with an interactive platform for fitting data and carrying out spatial visualization. The next article improves how to reschedule trains whenever disturbances occur, together with an evaluation framework. The final works focus on different relevant areas of DSSs: 1) a comparison of ensemble and dimensionality reduction models based on an entropy criterion; 2) a radar emitter identification method based on semi-supervised and transfer learning; 3) design limitations, errors, and hazards in creating very large-scale DSSs; and 4) efficient rule generation for associative classification. We hope you enjoy all the contents in the book.

Decision Support One Billion Knowledgeable

Praise for the First Edition "This is the most usable decision support systems text. [i]t is far better than any other text in the field" —Computing Reviews Computer-based systems known as decision support systems (DSS) play a vital role in helping professionals across various fields of practice understand what information is needed, when it is needed, and in what form in order to make smart and valuable business decisions. Providing a unique combination of theory, applications, and technology, *Decision Support Systems for Business Intelligence, Second Edition* supplies readers with the hands-on approach that is needed to understand the implications of theory to DSS design as well as the skills needed to construct a DSS. This new edition reflects numerous advances in the

field as well as the latest related technological developments. By addressing all topics on three levels—general theory, implications for DSS design, and code development—the author presents an integrated analysis of what every DSS designer needs to know. This Second Edition features: Expanded coverage of data mining with new examples Newly added discussion of business intelligence and transnational corporations Discussion of the increased capabilities of databases and the significant growth of user interfaces and models Emphasis on analytics to encourage DSS builders to utilize sufficient modeling support in their systems A thoroughly updated section on data warehousing including architecture, data adjustment, and data scrubbing Explanations and implications of DSS differences across cultures and the challenges associated with transnational systems Each chapter discusses various aspects of DSS that exist in real-world applications, and one main example of a DSS to facilitate car purchases is used throughout the entire book. Screenshots from JavaScript® and Adobe® ColdFusion are presented to demonstrate the use of popular software packages that carry out the discussed techniques, and a related Web site houses all of the book's figures along with demo versions of decision support packages, additional examples, and links to developments in the field. *Decision Support Systems for Business Intelligence, Second Edition* is an excellent book for courses on information systems, decision support systems, and data mining at the advanced undergraduate and graduate levels. It also serves as a practical reference for professionals working in the fields of business, statistics, engineering, and computer technology.

Building a Data Warehouse for Decision Support iUniverse

Completely revised, expanded, and updated, this second edition gives extensive new coverage of data integration, management, indexing, cleansing, and transformation. The book covers powerful new multi-dimensional front-ends and conversion tools and gives detailed coverage of lifecycle issues.

Decision Support and Expert Systems Springer Science & Business Media

This core textbook contains a focused approach to understanding and building decision support systems.

Clinical Decision Support Systems Springer Science & Business Media

This book will be bought by researchers and graduates students in Artificial Intelligence and management as well as practising managers and consultants interested in the application of IT and information systems in real business environment.

Decision Support Systems IGI Global

An in-depth examination of the tools and techniques needed to design and implement a decision support system (DSS) in an organization. The work covers modeling and simulation, and explains how a DSS can help managers make their decisions and indicates how the DSS fits in the overall management information system in an organization. It features case studies of decision support systems and a discussion of future trends in DSS.

Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering Springer Nature

Explores the variety and richness of support systems as well as the wide range of users, problems, and technologies employed and illustrates how the concepts and principles have been applied in specific systems. Designed to be a primary text for understanding this continually developing field to help readers and practitioners understand the principles and concepts that guide the development and use of these systems. KEY TOPICS: The authors include the full range of systems and users, but with some extra emphasis on managers and their use of systems such as EIS, rather than an emphasis on management analysts who develop expert systems; integrated approach with articles from literature and special contributions solicited from leaders in the field; teaches readers how to develop applications in the real world.

Decision Enhancement Services CRC Press

GEODATA ANALYSIS AND DISPLAY SYSTEM; GENERALIZED MANAGEMENT INFORMATION SYSTEM.

Engineering Effective Decision Support Technologies: New Models and Applications Springer

This text provides step-by-step guidance to building an organizational decision support system (ODSS). It deals with building an ODSS from the basic needs assessment and project formation through the conceptual design, system implementation, maintenance and updating.

The State-of-the-art in Decision Support Systems Mitchell Beazley

Decision Enhancement (DE) is a field of practice aimed at extending lessons, principles and tools built up over a thirty year period, largely under the term 'Decision Support'. This book encourages reflection and discussion within and across executives, their advisors, change management specialists, and experts in multi-disciplinary fields.