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Handbook on Decision Support Systems 1-Frada Burstein 2008-01-22 Decision support systems have experienced a marked increase in attention and importance over the past 25 years. The aim of this book is to survey the decision support system (DSS) field – covering both developed territory and emergent frontiers. It will give the reader a clear understanding of fundamental DSS concepts, methods, technologies, trends, and issues. It will serve as a basic reference work for DSS research, practice, and instruction. To achieve these goals, the book has been designed according to a ten-part structure, divided in two volumes with chapters authored by well-known, well-versed scholars and practitioners from the DSS community.
Handbook on Decision Support Systems 2-Frada Burstein 2008-01-22 As the most comprehensive reference work dealing with decision support systems (DSS), this book is essential for the library of every DSS practitioner, researcher, and educator. Written by an international array of DSS luminaries, it contains more than 70 chapters that approach decision support systems from a wide

variety of perspectives. These range from classic foundations to cutting-edge thought, informative to provocative, theoretical to practical, historical to futuristic, human to technological, and operational to strategic. The chapters are conveniently organized into ten major sections that novices and experts alike will refer to for years to come.

Decision Support Systems for Sustainable Development-Gregory E. Kersten 2007-05-08 In recent years, much work has been done in formulating and clarifying the concept of sustainable development and related theoretical and research issues. Now, the challenge has shifted to designing and stimulating processes of effective planning and decision-making, at all levels of human activity, in such a way as to achieve local and global sustainable development. Information technology can help a great deal in achieving sustainable development by providing well-designed and useful tools for decision makers. One such tool is the decision support system, or DSS. This book explores the area of DSS in the context of sustainable development. As DSS is a very new technique, especially in the developing world, this book will serve as a reference text, primarily for managers, government officials, and information professionals in developing countries. It covers the concept of sustainable development, defines DSS and how it can be used in the planning and management of sustainable development, and examines the state of the art in DSS use. Other interested readers will include students, teachers, and analysts in information sciences; DSS designers, developers, and implementors; and international development agencies.

Spatial Decision Support Systems-Ramanathan Sugumaran 2010-11-15 Although interest in Spatial Decision Support Systems (SDSS) continues to grow rapidly in a wide range of disciplines, students, planners, managers, and the research community have lacked a book that covers the fundamentals of SDSS along with the advanced design concepts required for building SDSS. Filling this need, Spatial Decision Support Systems: Principles and Practices provides a comprehensive examination of the various aspects of SDSS evolution, components, architecture, and implementation. It integrates research from a variety of disciplines, including the geosciences, to supply a complete overview of SDSS technologies

and their application from an interdisciplinary perspective. This groundbreaking reference provides thorough coverage of the roots of SDSS. It explains the core principles of SDSS, how to use them in various decision making contexts, and how to design and develop them using readily available enabling technologies and commercial tools. The book consists of four major parts, each addressing different topic areas in SDSS: Presents an introduction to SDSS and the evolution of SDSS Covers the essential and optional components of SDSS Focuses on the design and implementation of SDSS Reviews SDSS applications from various domains and disciplines—investigating current challenges and future directions The text includes numerous detailed case studies, example applications, and methods for tailoring SDSS to your work environment. It also integrates sample code segments throughout. Addressing the technical and organizational challenges that affect the success or failure of SDSS, the book concludes by considering future directions of this rapidly emerging field of study.

Exploring Intelligent Decision Support Systems-Rafael Valencia-García 2018-02-07 This book presents innovative and high-quality research regarding advanced decision support systems (DSSs). It describes the foundations, methods, methodologies, models, tools, and techniques for designing, developing, implementing and evaluating advanced DSSs in different fields, including finance, health, emergency management, industry and pollution control. Decision support systems employ artificial intelligence methods to heuristically address problems that are cannot be solved using formal techniques. In this context, technologies such as the Semantic Web, linked data, big data, and machine learning are being applied to provide integrated support for individuals and organizations to make more rational decisions. The book is organized into two parts. The first part covers decision support systems for industry, while the second part presents case studies related to clinical emergency management and pollution control.

Efficient Decision Support Systems-Chiang Jao 2011-09-09 This series is directed to diverse managerial professionals who are leading the transformation of individual domains by using expert information and domain knowledge to drive decision support systems (DSSs). The series offers a broad range of subjects

addressed in specific areas such as health care, business management, banking, agriculture, environmental improvement, natural resource and spatial management, aviation administration, and hybrid applications of information technology aimed to interdisciplinary issues. This book series is composed of three volumes: Volume 1 consists of general concepts and methodology of DSSs; Volume 2 consists of applications of DSSs in the biomedical domain; Volume 3 consists of hybrid applications of DSSs in multidisciplinary domains. The book is shaped upon decision support strategies in the new infrastructure that assists the readers in full use of the creative technology to manipulate input data and to transform information into useful decisions for decision makers. Decision Support and Business Intelligence Systems-Efraim Turban 2007 No further information has been provided for this title. Decision Support-David Schuff 2010-11-25 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 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?

Decision Support Systems-Ephraim R. McLean 1986

Decision support systems in potato production-D.K.L. MacKerron 2004-06-15 Models of crop growth and development were conceived originally for scientific purposes. Typically, they describe the mechanisms of crop production, development from emergence through tuber initiation to senescence determined by temperature and day-length. Growth is driven by solar radiation intercepted by the foliage. Yields are enhanced by the availability of water and nutrients and may be reduced by pests, diseases and weeds. The scientific models describing the processes involved are leaving the research institutes and increasingly are becoming a means of knowledge transfer for students, and most importantly, to growers and their intermediaries such as extensionists and consultants. Many decision support systems (DSS) have a mechanistic model core that assures their robustness and reliability. This book gives an overview of model-based DSS in potato production. Decision support systems are used by the processing industry to guide them to promising production areas and by breeders to identify the ideal genotype for such environments. Consultants and soil laboratories use them as well as farmers to optimize the use of nitrogen, water and chemicals to control insects, nematodes, late blight and weeds. The systems, making use of models and sensing techniques, improve yield and quality while allowing their users to improve the efficiency of use of resources, thus generating positive effects for profits and for the environment. The book also gives examples of new introductions of DSS and farmers responses. The book is intended for researchers wanting to bring their models to practice, students to learn bout DSS, intermediaries and growers to improve the performance of the potato industry or of other commodities for which potato serves as an example.

Collaborative Decision Making-Pascale Zaraté 2008 This publication presents the latest innovations and achievements of academic communities on Decision Support Systems (DSS). These advances include theory systems, computer-aided methods, algorithms

techniques and applications related to supporting decision making. The aim is to develop approaches for applying information systems technology to increase the effectiveness of decision making in situations where the computer system can support and enhance human judgments in the performance of tasks that have elements which cannot be specified in advance. Also it is intended to improve ways of synthesizing and applying relevant work from resource disciplines to practical implementation of systems that enhance decision support capability.The resource disciplines include: information technology, artificial intelligence, cognitive psychology, decision theory, organizational theory, operations research and modeling. Researchers come from the Operational Research area but also from Decision Theory, Multicriteria Decision Making methodologies, Fuzzy sets and modeling tools. Based on the introduction of Information and Communication Technologies in organizations, the decisional process is evolving from a mono actor to a multi actor situation in which cooperation is a way to make the decision.

Clinical Decision Support Systems-Eta S. Berner 2007-04-03 This is a resource book on clinical decision support systems for informatics specialists, a textbook for teachers or students in health informatics and a comprehensive introduction for clinicians. It has become obvious that, in addition to physicians, other health professionals have need of decision support. Therefore, the issues raised in this book apply to a broad range of clinicians. The book includes chapters written by internationally recognized experts on the design, evaluation and application of these systems, who examine the impact of computer-based diagnostic tools both from the practitioner's perspective and that of the patient.

Manufacturing Decision Support Systems-Hamid R. Parsaei 1997 This book provides a forum for research and applications dealing with the design, the development and the implementation of decision support systems in the manufacturing domain. The book brings together contributions from leading experts in the field. It will appeal to all those concerned with decision support for manufacturing.

Decision Support Systems for Business Intelligence-Vicki L. Sauter 2014-08-21 Praise for the First Edition "This is the most usable

decision support systems text. [i]t isfar better than any other text in the field" —ComputingReviews Computer-based systems known as decision support systems (DSS)play a vital role in helping professionals across various fields ofpractice understand what information is needed, when it is needed,and in what form in order to make smart and valuable businessdecisions. 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 isneeded to understand the implications of theory to DSS design aswell as the skills needed to construct a DSS. This new edition reflects numerous advances in the field as wellas the latest related technological developments. By addressing alltopics on three levels—general theory, implications for DSSdesign, and code development—the author presents anintegrated analysis of what every DSS designer needs to know. ThisSecond Edition features: Expanded coverage of data mining with new examples Newly added discussion of business intelligence andtransnational corporations Discussion of the increased capabilities of databases and thesignificant growth of user interfaces and models Emphasis on analytics to encourage DSS builders to utilizesufficient modeling support in their systems A thoroughly updated section on data warehousing includingarchitecture, data adjustment, and data scrubbing Explanations and implications of DSS differences across culturesand the challenges associated with transnational systems Each chapter discusses various aspects of DSS that exist inreal-world applications, and one main example of a DSS tofacilitate car purchases is used throughout the entire book.Screenshots from JavaScript® and Adobe® ColdFusion arepresented to demonstrate the use of popular software packages thatcarry out the discussed techniques, and a related Web site housesall of the book's figures along with demo versions of decisionsupport packages, additional examples, and links to developments inthe field. Decision Support Systems for Business Intelligence, SecondEdition is an excellent book for courses on information systems,decision support systems, and data mining at the advancedundergraduate and graduate levels. It also serves as a practicalreference for professionals working in the fields of business,statistics, engineering, and computer.

technology.

Building Effective Decision Support Systems-Ralph H. Sprague 1982 Describes how Decision Support Systems (DSS) computer-based systems, and described the steps and components necessary to develop effective DSS.

Handbook of Research on Modern Systems Analysis and Design Technologies and Applications-Syed, Mahbubur Rahman 2008-07-31 "This book provides a compendium of terms, definitions, and explanations of concepts in various areas of systems and design, as well as a vast collection of cutting-edge research articles from the field's leading experts"--Provided by publisher.

Strategic Alignment Process and Decision Support Systems: Theory and Case Studies-Shimizu, Tamio 2005-12-31 "This book deals with strategic organizational decision-making providing techniques for improving the intelligence of actions by organizational decision-makers"--Provided by publisher.

Decision Support Systems Research (1970-1999)-Sean B. Eom 2002 Introduction 1. Introduction to Decision Support Systems 2. Research Methodology 3. Data 4. The Intellectual Structure of Decision Support Systems Research (1969-1990) 5. The Intellectual Structure of Decision Support Systems Research (1990-1999) 6. Relationships Between the DSS Subspecialties and Reference Disciplines 7. Assessing the Current State of Intellectual Relationships between the DSS area and Other Academic Disciplines 8. Contribution of Multi-Criteria Decision Making to the Development of DSS Subspecialties 9. Contributions of Systems Science to the Development of DSS Subspecialties 10. Contribution of Cognitive Science to the Development of DSS Subspecialties 11. Survey of DSS Applications (1971-1994) 12. Conclusions Appendices; Indices, Bibliography.

Decision Support Systems.The International Journal January,1996 Vol.16,No.1 ISSN 0167-9236-Decision Support Systems.The International Journal January,1996 Vol.16,No.1 1996

Decision Support Systems and Electronic Commerce- 2003-04

Decision Support Systems: Issues and Challenges-Göran Fick 2013-10-22 Decision Support Systems: Issues and Challenges covers the proceedings of the International Institute for Applied Systems Analysis (IIASA) International Task Force Meeting. The

book reviews papers that tackle issues about decision support systems (DSS). Comprised of 17 chapters, the book organizes the chapters according to the topic of discussion, including framework, resource discipline, application experience, and issues for the future in DSS. The opening chapter is an introduction to the main topic of the book. Chapter 2 discusses frameworks for research on decision support systems, and Chapter 3 covers the decision support systems. The fourth chapter deals with organizational science contributions to the design of decision support systems, while the fifth chapter discusses using data bases for decision support. Chapter 6 tackles the overview of database technology in decision support systems, and Chapter 7 talks about doing and speaking in the office. The eighth chapter discusses a look back at an office of the future, while the ninth chapter covers the implications for research of installing a decision support system. Chapter 10 tackles the problems of design and implementation of computer-based decision support systems. Chapter 11 discusses an interactive modeling system for analysis of alternative decisions; Chapter 12 covers the structure of decision support systems. Chapters 13 to 15 review the group discussion during the conference about the issues for the future in DSS. This book will be of great interest to leaders, since it discusses the integration of technology in the interaction within an organization.

Decision Support Systems Research and Reference Disciplines, 1970-2001-Sean B. Eom 2003 This is a research guide and bibliography with citation frequency on the decision support systems research area and its references disciplines. It contains only references that have been cited frequently by more than several thousand authors of decision support systems articles published in a set of carefully selected journals according to objective criteria set forth in a data chapter. Each item in the bibliography of the book contains the citation frequency representing its weight and degree of influence on the decision support systems research. Each item represents objective and unobtrusive judgment of all the authors of major articles published in more than 140 information systems journals during 1970-2001. It will be a useful research guide to the DSS literature.

Consumer Behavior, Organizational Development, and Electronic

Commerce: Emerging Issues for Advancing Modern Socioeconomies-Khosrow-Pour, D.B.A., Mehdi 2008-12-31 "This book offers readers a one-stop resource for contemporary issues, developments, and influences in e-commerce"--Provided by publisher.

Decision Support Systems The International Journal- 1997 Integrated and Strategic Advancements in Decision Making Support Systems-Zaraté, Pascale 2012-06-30 "This book explores the world of Decision Making Support Systems (DMSS), which encompasses Decision Support Systems (DSS), Executive Information Systems (EIS), Expert Systems (ES), Knowledge Based Systems (KBS), Creativity Enhancing Systems (CES), and more"--Provided by publisher.

Encyclopedia of Decision Making and Decision Support Technologies-Adam, Frederic 2008-04-30 As effective organizational decision making is a major factor in a company's success, a comprehensive account of current available research on the core concepts of the decision support agenda is in high demand by academicians and professionals. Through 110 authoritative contributions by over 160 of the world's leading experts the Encyclopedia of Decision Making and Decision Support Technologies presents a critical mass of research on the most up-to-date research on human and computer support of managerial decision making, including discussion on support of operational, tactical, and strategic decisions, human vs. computer system support structure, individual and group decision making, and multi-criteria decision making.

Decision-Making Support Systems: Achievements and Challenges for the New Decade-Forgionne, Guisseppi A. 2002-07-01 Annotation The book presents state-of-the-art knowledge about decision-making support systems (DMSS). Its main goals are to provide a compendium of quality chapters on decision-making support systems that help diffuse scarce knowledge about effective methods and strategies for successfully designing, developing, implementing, and evaluating decision-making support systems, and to create an awareness among readers about the relevance of decision-making support systems in the current complex and dynamic management environment.

Geographical Information Systems for Urban and Regional Planning-Henk J. Scholten 2013-03-09 In August 1989, a Summer Institute was held at the Academie van Bouwkunst, the seventeenth century home of Amsterdam's School of Architecture, Town Planning and Landscape. The meeting brought together experts in Geographical Information Systems from throughout the world to address an international audience of planners. The contents of this book reflect many of the themes that were presented and discussed at the conference. The Summer Institute, let alone this volume, would not have been possible without the support of the International Association for the Development and Management of Existing and New Towns (INTNAIVN), the International Society of City and Regional Planners (ISoCaRP), The National Physical Planning Agency of the Netherlands (RPD) and the Berlage Studio. We wish to acknowledge the assistance provided by these organisations and by the various sponsors: The Ministry of Housing, Physical Planning and Environment, the Municipality of Amsterdam, Logisterion b.v., ESRI, UNISYS, MABON b.v., SPSS, PRIME Computer Inc., PANDATA. The provision of hardware facilities by the various computer companies allowed immensely valuable 'hands on' experience to be gained by all the participants.

Decision Support Systems and Intelligent Systems-Efraim Turban 1998 Presents the fundamental techniques of the construction and use of management support systems. The authors discuss the basic aspects and applications of decision and group decision support systems, expert systems, neural computing, intelligent agents, and other intelligence systems. They include nu

Best Practices and Conceptual Innovations in Information Resources Management: Utilizing Technologies to Enable Global Progressions-Khosrow-Pour, D.B.A., Mehdi 2008-12-31 "This book offers insight into emerging developments in information resources management and how these technologies are shaping the way the world does business, creates policies, and advances organizational practices"--Provided by publisher.

Decision Support and Expert Systems-Efraim Turban 1993

Digital Product Management, Technology and Practice: Interdisciplinary Perspectives-Strader, Troy J. 2010-09-30 "This book covers a wide range of digital product management issues and

offers some insight into real-world practice and research findings on the technical, operational, and strategic challenges that face digital product managers and researchers now and in the next several decades"--Provided by publisher.

Utilizing Decision Support Systems for Strategic Public Policy Planning-Timoulali, Mohamed 2020-05-29 Advances in GIS technologies have provided a more robust framework for planners and designers. These frameworks offer greater control and monitoring, which can lead to greater accuracy in policymaking and urban planning. Utilizing Decision Support Systems for Strategic Public Policy Planning is an essential research publication that provides comprehensive research on the possibilities of GIS technology for spatial analysis and visualization. Featuring a wide range of topics such as open data, architecture, and regional development, this book is ideal for design professionals, academicians, policymakers, researchers, professionals, and students.

Advances in Research Methods for Information Systems Research-Kweku-Muata Osei-Bryson 2013-11-25 Advances in social science research methodologies and data analytic methods are changing the way research in information systems is conducted. New developments in statistical software technologies for data mining (DM) such as regression splines or decision tree induction can be used to assist researchers in systematic post-positivist theory testing and development. Established management science techniques like data envelopment analysis (DEA), and value focused thinking (VFT) can be used in combination with traditional statistical analysis and data mining techniques to more effectively explore behavioral questions in information systems research. As adoption and use of these research methods expand, there is growing need for a resource book to assist doctoral students and advanced researchers in understanding their potential to contribute to a broad range of research problems. Advances in Research Methods for Information Systems Research: Data Mining, Data Envelopment Analysis, Value Focused Thinking focuses on bridging and unifying these three different methodologies in order to bring them together in a unified volume for the information systems community. This book serves as a resource that provides overviews

on each method, as well as applications on how they can be employed to address IS research problems. Its goal is to help researchers in their continuous efforts to set the pace for having an appropriate interplay between behavioral research and design science.

Engineering Effective Decision Support Technologies: New Models and Applications-Power, Daniel J. 2013-05-31 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.

IBM Systems Journal- 2007

Decision Making in the Manufacturing Environment-Ravipudi Venkata Rao 2007-06-06 This book shows how graph theory and matrix approach, and fuzzy multiple attribute decision making methods can be used in manufacturing. It proposes a methodology that will make decision making in the manufacturing environment structured and systematic. The book uses case studies to present the applications of decision making methods in real manufacturing situations.

Formulating Research Methods for Information Systems-Chris Sauer 2016-08-05 This edited two-volume collection presents the most interesting and compelling articles pertaining to the formulation of research methods used to study information systems from the 30 year publication history of the Journal of Information Technology (JIT).

Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage, and Environmental Protection-Metaxiotis, Kostas 2009-08-31 "This book

analyzes the need for a holistic approach for the construction and engineering of cities and societies"--Provided by publisher.

Trends and Research in the Decision Sciences-Decision Sciences Institute 2014-12-24 Decision science offers powerful insights and techniques that help people make better decisions to improve business and society. This new volume brings together the peer-reviewed papers that have been chosen as the "best of the best" by the field's leading organization, the Decision Sciences Institute. These papers, authored by respected decision science researchers and academics from around the world, will be presented at DSI's 45th Annual Meeting in Tampa, Florida in November 2014. The first book of papers ever assembled by DSI, this volume describes recent methods and approaches in the decision sciences, with a special focus on how accelerating technological innovation is driving change in the ways organizations and individuals make decisions. These papers offer actionable insights for decision-makers of all kinds, in business, public policy, non-profit organizations, and beyond. They also point to new research directions for academic researchers in decision science worldwide.

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