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Model-Based Decision Support Methodology with Environmental Applications Decision Support Systems Decision Support Systems VIII: Sustainable Data-Driven and Evidence-Based Decision Support Fundamentals of Clinical Data Science Developing Spreadsheet-based Decision Support Systems Decision Support Decision Support Systems Clinical Decision Support Systems Intelligent Decision Making: An AI-Based Approach Evidence-Based Decision-Making Technological Innovations in Knowledge Management and Decision Support Data-based Decision Making in Education Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering Descriptive Analysis for Computer-Based Decision Support Optimization Models Using Fuzzy Sets and Possibility Theory Decision Support for Forest Management Artificial Intelligence in Decision Support Systems for Diagnosis in Medical Imaging Intelligent Decision Support Systems Bursting the Big Data Bubble Clinical Decision Support Systems Intelligent Decision-making Support Systems Introduction to Optimization-Based Decision-Making Goal-based Decision Making Biomedical Informatics Data-Based Decision Making and Digital Transformation Clinical Decision Support Systems Multimodal Learning for Clinical Decision Support and Clinical Image-Based Procedures A case-based approach to decision support Handbook on Decision Support Systems 1 Decision Support Systems III - Impact of Decision Support Systems for Global Environments Exploring Intelligent Decision Support Systems Principles of Risk-Based Decision Making Cognition-Driven Decision Support for Business Intelligence Clinical Decision Support Decision Support and Business Intelligence Systems Developing Spreadsheet-based Decision Support Systems Values-Based Decision-Making for the Caring Professions Decision Support Systems for Sustainable Development Encyclopedia of Decision Making and Decision Support Technologies Algorithms in Decision Support Systems

Model-Based Decision Support Methodology with Environmental Applications *2010-12-15*

the complexity of issues requiring rational decision making grows and thus such decisions are becoming more and more difficult despite advances in methodology and tools for decision support and in other areas of research globalization interlinks between environmental industrial social and political issues and rapid speed of change all contribute to the increase of this complexity specialized knowledge about decision making processes and their support is increasing but a large spectrum of approaches presented in the literature is typically illustrated only by simple examples moreover the integration of model based decision support methodologies and tools with specialized model based knowledge developed for handling real problems in environmental engineering industrial economical social and political activities is often not satisfactory therefore there is a need to present the state of art of methodology and tools for development of model based decision support systems and illustrate this state by applications to various complex real world decision problems the monograph reports many years of experience of many researchers who have not only contributed to the developments in operations research but also succeeded to integrate knowledge and craft of various disciplines into several modern decision support systems which have been applied to actual complex decision making processes in various fields of policy making the experience presented in this book will be of value to researchers and practitioners in various fields the issues discussed in this book gain in importance with the development of the new era of the information society where information knowledge and ways of processing them become a decisive part of human activities the examples presented in this book illustrate how how various methods and tools of model based decision support can actually be used for helping modern decision makers that face complex problems overview of the contents the first part of this three part book presents the methodological background and characteristics of modern decision making environment and the value of model based decision support thus addressing current challenges of decision support it also provides the methodology of building and analyzing mathematical models that represent underlying physical and economic processes and that are useful for modern decision makers at various stages of decision making these methods support not only the analysis of pareto efficient solutions that correspond best to decision maker preferences but also allow the use of other modeling concepts like soft constraints soft simulation or inverse simulation the second part describes various types of tools that are used for the development of decision support systems these include tools for modeling simulation optimization tools supporting choice and user interfaces the described tools are both standard commercially available and nonstandard public domain or shareware software which are robust enough to be used also for complex applications all four environmental applications regional water quality management land use planning cost effective policies aimed at improving the european air quality energy planning with environmental implications presented in the third part of the book rely on many years of cooperation between the authors of the book with several iiasa s projects and with many researchers from the wide iiasa network of collaborating institutions all these applications are characterized by an intensive use of model based decision support finally the appendix contains a short description of some of the tools described in the book that are available from iiasa free of charge for research and educational purposes the

experiences reported in this book indicate that the development of dsss for strategic environmental decision making should be a joint effort involving experts in the subject area modelers and decision support experts for the other experiences discussed in this book the authors stress the importance of good data bases and good libraries of tools one of the most important requirements is a modular structure of a dss that enhances the reusability of system modules in such modular structures user interfaces play an important role the book shows how modern achievements in mathematical programming and computer sciences may be exploited for supporting decision making especially about strategic environmental problems it presents the methodological background of various methods for model based decision support and reviews methods and tools for model development and analysis the methods and tools are amply illustrated with extensive applications audience this book will be of interest to researchers and practitioners in the fields of model development and analysis model based decision analysis and support particularly in the environment economics agriculture engineering and negotiations areas and mathematical programming for understanding of some parts of the text a background in mathematics and operational research is required but several chapters of the book will be of value also for readers without such a background the monograph is also suitable for use as a text book for courses on advanced master and ph d levels for programs on operations research decision analysis decision support and various environmental studies depending on the program different parts of the book may be emphasized

Decision Support Systems *1996*

this book constitutes the proceedings of the 4th international conference on decision support systems icdsst 2018 held in heraklion greece in may 2018 the main topic of this year s conference was sustainable data driven and evidence based decision support the 15 papers presented in this volume were carefully reviewed and selected from 71 submissions they were organized in topical sections named decision support systems for a sustainable society decision support systems serving the public decision support systems in management and organization and advances in decision support systems technologies and methods the ewg dss series of international conference on decision support system technology icdsst starting with icdsst 2015 in belgrade were planned to consolidate the tradition of annual events organized by the ewg dss in offering a platform for european and international dss communities comprising the academic and industrial sectors to present state of the art dss research and developments to discuss current challenges that surround decision making processes to exchange ideas about realistic and innovative solutions and to co develop potential business opportunities

Decision Support Systems VIII: Sustainable Data-Driven and Evidence-Based Decision Support *2018-05-15*

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

Fundamentals of Clinical Data Science *2018-12-21*

a decision support system dss is an intelligent information system that uses data models it processes or analyzes it using problem specific methodologies and assists the user in the decision making process through a graphical user interface gui developing spreadsheet based decision support systems is a comprehensive book that describes how to build decision support systems using the excel spreadsheet framework and the vba programming language this book illustrates complete decision support development applications through several case studies arising in operations research industrial engineering management and business administration

Developing Spreadsheet-based Decision Support Systems 2007

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 2010-11-25

decision support systems frequently asked questions is the authoritative reference guide to computerized decision support systems author dan power has spent almost 30 years building studying and teaching others about computerized decision support systems dr power is first and foremost a decision support evangelist and generalist from his vantage point as editor of dssresources com he tracks a broad range of contemporary dss topics in this dss faq dr power answers 83 frequently asked questions about computerized decision support systems the faq covers a broad range of contemporary topics and the questions are organized into 8 chapters dss faq helps readers understand questions like what is a dss what kind of dss does mr x need does data modeling differ for a data driven dss is a data warehouse a dss is tax preparation software an example of a dss what do i need to know about data warehousing olap what is a cost estimation dss what is a spreadsheet based dss decision support systems frequently asked questions is a useful resource for it specialists students professors and managers it organizes important ask dan questions with answers published in dss news from 2000 through 2004

Decision Support Systems *2004-12-21*

building on the success of the previous editions this fully updated book once again brings together worldwide experts to illustrate the underlying science and day to day use of decision support systems in clinical and educational settings topics discussed include mathematical foundations of decision support systems design and implementation issues ethical and legal issues in decision support clinical trials of information interventions hospital based decision support real world case studies

Clinical Decision Support Systems *2016-07-26*

intelligent decision support systems have the potential to transform human decision making by combining research in artificial intelligence information technology and systems engineering the field of intelligent decision making is expanding rapidly due in part to advances in artificial intelligence and network centric environments that can deliver the technology communication and coordination between dispersed systems can deliver just in time information real time processing collaborative environments and globally up to date information to a human decision maker at the same time artificial intelligence techniques have demonstrated that they have matured sufficiently to provide computational assistance to humans in practical applications this book includes contributions from leading researchers in the field beginning with the foundations of human decision making and the complexity of the human cognitive system researchers contrast human and artificial intelligence survey computational intelligence present pragmatic systems and discuss future trends this book will be an invaluable resource to anyone interested in the current state of knowledge and key research gaps in the rapidly developing field of intelligent decision support

Intelligent Decision Making: An AI-Based Approach *2008-03-04*

evidence based decision making how to leverage available data and avoid cognitive biases examines how a wide range of factual evidence primarily derived from a variety of data available to organizations can be used to improve the quality of business decision making by helping decision makers circumvent the various cognitive biases that adversely impact how we all think the book is built on the following premise during the past decade the new data world emerged in which the rush to develop competencies around business analytics and data science can be characterized as nothing less than the new commercial arms race the ever expanding volume and variety of data are well known as are the great advances in data processing analytics data visualization and related information production focused capabilities yet comparatively little effort has been devoted to how the informational products of business analytics and data science are consumed or used in the organizational decision making processes as the available evidence shows that only some of that information is used to drive some business decisions some of the time evidence based decision making details an explicit process describing how the universe of available and applicable evidence which includes organizational and other data industry benchmarks scientific studies and professional experience can be assessed amalgamated and funneled into an objective driver of key business decisions introducing key concepts in relation to data and evidence and the history of evidence based management this new and extremely topical book will be essential reading for researchers and students of data analytics as well as those working in the private and public sectors and in the voluntary sector

Evidence-Based Decision-Making *2019-03-04*

organizations are showing a remarkable interest in realizing knowledge management technologies and processes to adopt knowledge management as part of their overall strategy however even with the current advancement in technology few organizations are entirely capable of developing critical organizational knowledge to achieve improved performance technological innovations in knowledge management and decision support is a vital research publication that examines different knowledge management areas for organizational competitiveness survival and effectiveness it also provides cutting edge research techniques in related optimization methods and other automated techniques in real world processes featuring a broad range of topics such as enterprise resource planning neural networks and image segmentation this book is a critical resource for managers it specialists healthcare and social sciences professionals engineers academicians and researchers seeking research on effective knowledge management systems

Technological Innovations in Knowledge Management and Decision

Support *2018-07-27*

in a context where schools are held more and more accountable for the education they provide data based decision making has become increasingly important this book brings together scholars from several countries to examine data based decision making data based decision making in this book refers to making decisions based on a broad range of evidence such as scores on students assessments classroom observations etc this book supports policy makers people working with schools researchers and school leaders and teachers in the use of data by bringing together the current research conducted on data use across multiple countries into a single volume some of these studies are best practice studies where effective data use has led to improvements in student learning others provide insight into challenges in both policy and practice environments each of them draws on research and literature in the field

Data-based Decision Making in Education 2012-09-18

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

Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering *2021-05-28*

this article studies the issue of descriptive analysis for decision support systems dss much of the dss research literature concentrates on the procedural aspects of building support systems rather than on the substantive issues of their content if we are to expand further our knowledge of dss however it is important to complement our understanding of the process of

dss development with a means for describing and differentiating dss in particular a descriptive mechanism should pay careful attention to those features of dss that determine the effects a support system has on the decision making processes of its users a three tiered approach to describing dss is proposed consisting of the following sequence of analytical levels functional capabilities user views of system components and system attributes restrictiveness guidance and focus moving from the first through the third tiers increasing attention is paid to examining dss in their entirety and to considering their effects on decision making processes implications for further research are highlighted kr

Descriptive Analysis for Computer-Based Decision Support *1987*

optimization is of central concern to a number of discip lines operations research and decision theory are often consi dered to be identical with optimizationo but also in other areas such as engineering design regional policy logistics and many others the search for optimal solutions is one of the prime goals the methods and models which have been used over the last decades in these areas have primarily been hard or crisp i e the solutions were considered to be either fea sible or unfeasible either above a certain aspiration level or below this dichotomous structure of methods very often forced the modeller to approximate real problem situations of the more or less type by yes or no type models the solutions of which might turn out not to be the solutions to the real prob lems this is particularly true if the problem under considera tion includes vaguely defined relationships human evaluations uncertainty due to inconsistent or incomplete evidence if na tural language has to be modelled or if state variables can only be described approximately until recently everything which was not known with cer tainty i e which was not known to be either true or false or which was not known to either happen with certainty or to be impossible to occur was modelled by means of probabilitieso this holds in particular for uncertainties concerning the oc currence of events

Optimization Models Using Fuzzy Sets and Possibility Theory *2013-11-11*

this updated and expanded second edition adds the most recent advances in participatory planning approaches and methods giving special emphasis to decision support tools usable under uncertainty the new edition places emphasis on the selection of criteria and creating alternatives in practical multi criteria decision making problems

Decision Support for Forest Management 2015-10-27

this book offers the first comprehensive overview of artificial intelligence ai technologies in decision support systems for diagnosis based on medical images presenting cutting edge insights from thirteen leading research groups around the world medical imaging offers essential information on patients medical condition and clues to causes of their symptoms and diseases modern imaging modalities however also produce a large number of images that physicians have to accurately interpret this can lead to an information overload for physicians and can complicate their decision making as such intelligent

decision support systems have become a vital element in medical image based diagnosis and treatment presenting extensive information on this growing field of ai the book offers a valuable reference guide for professors students researchers and professionals who want to learn about the most recent developments and advances in the field

Artificial Intelligence in Decision Support Systems for Diagnosis in Medical Imaging *2018-01-09*

intelligent prediction and decision support systems are based on signal processing computer vision cv machine learning ml software engineering se knowledge based systems kbs data mining artificial intelligence ai and include several systems developed from the study of expert systems es genetic algorithms ga artificial neural networks ann and fuzzy logic systems the use of automatic decision support systems in design and manufacturing industry healthcare and commercial software development systems has the following benifits cost savings in companies due to employment of expert system technology fast decision making completion of projects in time and development of new products improvement in decision making capability and quality usage of knowledge database and preservation of expertise of individuals eases complex decision problems ex diagnosis in healthcare to address the issues and challenges related to development implementation and application of automatic and intelligent prediction and decision support systems in domains such as manufacturing healthcare and software product design development and optimization this book aims to collect and publish wide ranges of quality articles such as original research contributions methodological reviews survey papers case studies and or reports covering intelligent systems expert prediction systems evaluation models decision support systems and computer aided diagnosis cad

Intelligent Decision Support Systems *2019-10-21*

as we get caught up in the quagmire of big data and analytics it remains critically important to be able to reflect and apply insights experience and intuition to your decision making process in fact a recent research study at tel aviv university found that executives who relied on their intuition were 90 percent accurate in their decisions bursting the big data bubble the case for intuition based decision making focuses on this intuition based decision making the book does not discount data based decision making especially for decisions that are important and complex instead it emphasizes the importance of applying intuition gut feel spirituality experiential learning and insight as key factors in the executive decision making process explaining how intuition is a product of past experience learning and ambient factors the text outlines methods that will help to enhance your data driven decision making process with intuition based decision making the first part of the book the research track presents contributions from leading researchers worldwide on the topic of intuition based decision making as applied to management in the second part of the book the practice track global executives and senior managers in industry government universities and not for profits present vignettes that illustrate how they have used their intuition in making key

decisions the research part of the book helps to frame the problem and address leading research in intuition based decision making the second part then explains how to apply these intuition based concepts and issues in your own decision making process

Bursting the Big Data Bubble *2014-07-25*

written by nationally and internationally recognised experts on the design evaluation and application of such systems this book examines the impact of practitioner and patient use of computer based diagnostic tools it serves simultaneously as a resource book on diagnostic systems for informatics specialists a textbook for teachers or students in health or medical informatics training programs and as a comprehensive introduction for clinicians with or without expertise in the applications of computers in medicine who are interested in learning about current developments in computer based diagnostic systems designed for a broad range of clinicians in need of decision support

Clinical Decision Support Systems *2013-06-29*

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

Intelligent Decision-making Support Systems *2010-10-22*

the large and complex challenges the world is facing the growing prevalence of huge data sets and the new and developing ways for addressing them artificial intelligence data science machine learning etc means it is increasingly vital that academics and professionals from across disciplines have a basic understanding of the mathematical underpinnings of effective optimized decision making without it decision makers risk being overtaken by those who better understand the models and methods that can best inform strategic and tactical decisions introduction to optimization based decision making provides an elementary and self contained introduction to the basic concepts involved in making decisions in an optimization based environment the mathematical level of the text is directed to the post secondary reader or university students in the initial years the prerequisites are therefore minimal and necessary mathematical tools are provided as needed this lean approach is complemented with a problem based orientation and a methodology of generalization reduction in this way the book can be useful for students from stem fields economics and enterprise sciences social sciences and humanities as well as for the general reader interested in multi trans disciplinary approaches features collects and discusses the ideas underpinning decision making through optimization tools in a simple and straightforward manner suitable for an undergraduate course in optimization based decision making or as a supplementary resource for courses in operations research and management science self contained coverage of traditional and more modern optimization models while not requiring a previous background in decision theory

Introduction to Optimization-Based Decision-Making *2021-12-24*

this work presents a goal based model of decision making in which the relative priorities of goals drive the decision process a psychological alternative to traditional decision analysis building on the work of schank and abelson the author uses goals as the basis for a model of interpersonal relations which permits decisions to incorporate personal and adopted goals in a uniform manner the theory is modelled on the vote computer program which simulates congressional roll call voting decisions the vote program expands traditional decision making and simulation models by providing not only a choice but also a natural language explanation in either english or french it simulates real members of congress voting on real bills and producing reasonable explanations the program is consistent with much of the descriptive political science literature on congressional decision making and provides an explicit model of political issues relationships and strategies that converge in voting behavior in developing the vote program the author draws on his own practical experience in politics from four presidential campaigns and the white house given the underlying psychological basis of the program vote can be extended to other decision making domains different from politics another use for the program is to simulate business decisions such as securities analysis as well as mundane decision making such as choosing a college or deciding whether to get a mohawk haircut

Goal-based Decision Making 2013-06-17

the practice of modern medicine and biomedical research requires sophisticated information technologies with which to manage patient information plan diagnostic procedures interpret laboratory results and carry out investigations biomedical informatics provides both a conceptual framework and a practical inspiration for this swiftly emerging scientific discipline at the intersection of computer science decision science information science cognitive science and biomedicine now revised and in its third edition this text meets the growing demand by practitioners researchers and students for a comprehensive introduction to key topics in the field authored by leaders in medical informatics and extensively tested in their courses the chapters in this volume constitute an effective textbook for students of medical informatics and its areas of application the book is also a useful reference work for individual readers needing to understand the role that computers can play in the provision of clinical services and the pursuit of biological questions the volume is organized so as first to explain basic concepts and then to illustrate them with specific systems and technologies

Biomedical Informatics *2013-12-02*

digital disruption is accelerating implementing a successful digital transformation strategy requires that senior managers make trade off decisions to reinvent a business equally important all decision makers must learn to ask the right questions use data and computer support in decision making and increase their knowledge and skills creating a data centric culture

and rewarding data based decision making leads to successful digital transformation join the digital journey this book is targeted at managers especially middle level managers who are trying to come to grips with using data based decision making in a transforming organization the authors explore a number of broad questions including how can managers become data based decision makers how can digital transformation become part of an organi zational strategy what new skills do managers need to implement digital transformation how will we know an organization has been successfully transformed

Data-Based Decision Making and Digital Transformation *2018-05-31*

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

Clinical Decision Support Systems 2010-11-19

this book constitutes the refereed joint proceedings of the 10th international workshop on multimodal learning for clinical decision support ml cds 2020 and the 9th international workshop on clinical image based procedures clip 2020 held in conjunction with the 23rd international conference on medical imaging and computer assisted intervention miccai 2020 in lima peru in october 2020 the workshops were held virtually due to the covid 19 pandemic the 4 full papers presented at ml cds 2020 and the 9 full papers presented at clip 2020 were carefully reviewed and selected from numerous submissions to ml cds and 10 submissions to clip the ml cds papers discuss machine learning on multimodal data sets for clinical decision support and treatment planning the clip workshops provides a forum for work centered on specific clinical applications including techniques and procedures based on comprehensive clinical image and other data

Multimodal Learning for Clinical Decision Support and Clinical Image-Based Procedures 2020-10-03

abstract decision support systems can be improved by enabling them to use past decisions to assist in making present and future decisions case based reasoning is an approach to machine learning which is concerned with recalling past situations and applying solutions suggested by these situations to new problems by applying case based reasoning techniques to the decision support area we have been able to build a system that assists analysts in the depreciation analysis field in producing projections of the life of assets the model of case based decision support at the heart of this system is applicable to many

other domains

A case-based approach to decision support *1991*

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 1 *2008-01-22*

this book contains extended and revised versions of a set of selected papers from two workshops organized by the euro working group on decision support systems ewg dss which were held in thessaloniki greece and rome italy in may and july 2013 from a total of 45 submissions 15 papers were accepted for publication in this edition after being reviewed by at least three internationally known experts from the ewg dss program committee and external invited reviewers the selected papers are representative of current research activities in the area of operational research and decision support systems focusing on topics such as decision making using social networks and resources spatio temporal based decision making group support systems technical legal and social aspects of decision making knowledge management and decision support systems business intelligence and data warehousing and negotiation support systems

Decision Support Systems III - Impact of Decision Support Systems for Global Environments 2014-09-22

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 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

Exploring Intelligent Decision Support Systems *2018-02-07*

principles of risk based decision making provides managers with the foundation for creating a proactive organizational culture that systematically incorporates risk into key decision making processes based on methodology adopted by a number of organizations including the federal government this book examines risk based decision making as a process for organizing information about the possibility for unwanted outcomes in a simple practical way that helps decision makers make timely informed management choices that minimize harmful effects on safety and health the environment property loss or mission success

Principles of Risk-Based Decision Making 2002-02-01

cognition driven decision support system dss has been recognized as a paradigm in the research and development of business intelligence bi cognitive decision support aims to help managers in their decision making from human cognitive aspects such as thinking sensing understanding and predicting and fully reuse their experience among these cognitive aspects decision makers situation awareness sa and mental models are considered to be two important prerequisites for decision making particularly in ill structured and dynamic decision situations with uncertainties time pressure and high personal stake in today s business domain decision making is becoming increasingly complex to make a successful decision managers sa about their business environments becomes a critical factor this book presents theoretical models as well practical techniques of cognitiondriven dss it first introduces some important concepts of cognition orientation in decision making process and some techniques in related research areas including dss data warehouse and bi offering readers a preliminary for moving forward in this book it then proposes a cognition driven decision process cddp model which incorporates sa and experience mental models as its central components the goal of the cddp model is to facilitate cognitive decision support to managers on the basis of bi systems it also presents relevant techniques developed to support the implementation of the cddp model in a bi environment key issues addressed of a typical business decision cycle in the cddp model include natural language interface for a manager s sa input extraction of sa semantics construction of data warehouse queries based on the manger s sa and experience situation information retrieval from data warehouse how the manager perceives situation information and update sa how the manager s sa leads to a final decision finally a cognition driven dss facets and two illustrative applications of this system are discussed

Cognition-Driven Decision Support for Business Intelligence *2009-09-14*

with at least 40 new or updated content since the last edition clinical decision support 2nd edition explores the crucial new motivating factors poised to accelerate clinical decision support cds adoption this book is mostly focused on the us perspective because of initiatives driving ehr adoption the articulation of meaningful use and new policy attention in process

including the office of the national coordinator for health information technology onc and the center for medicare and medicaid services cms a few chapters focus on the broader international perspective clinical decision support 2nd edition explores the technology sources of knowledge evolution of successful forms of cds and organizational and policy perspectives surrounding cds exploring a roadmap for cds with all its efficacy benefits including reduced errors improved quality and cost savings as well as the still substantial roadblocks needed to be overcome by policy makers clinicians and clinical informatics experts the field is poised anew on the brink of broad adoption clinical decision support 2nd edition provides an updated and pragmatic view of the methodological processes and implementation considerations this book also considers advanced technologies and architectures standards and cooperative activities needed on a societal basis for truly large scale adoption at least 40 updated and seven new chapters since the previous edition with the new and revised content focused on new opportunities and challenges for clinical decision support at point of care given changes in science technology regulatory policy and healthcare finance informs healthcare leaders and planners health it system developers healthcare it organization leaders and staff clinical informatics professionals and researchers and clinicians with an interest in the role of technology in shaping healthcare of the future

Clinical Decision Support *2014-03-26*

no further information has been provided for this title

<u>Decision Support and Business Intelligence Systems</u> *2007*

a practical guide to decision making for all decision makers this book shows how to expose and understand the true bases of decisions it presents an informative review of decision making tools from the most quantitative to the most qualitative and explains with examples how each may be used to make effective practical decisions

Developing Spreadsheet-based Decision Support Systems *2011*

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

Values-Based Decision-Making for the Caring Professions 2005-09-23

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 Support Systems for Sustainable Development *2007-05-08*

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 unstructured 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

Encyclopedia of Decision Making and Decision Support Technologies *2008-04-30*

Algorithms in Decision Support Systems *2021-03-19*

- the logic answer key [PDF]
- the sunflower on possibilities and limits of forgiveness simon wiesenthal (Read Only)
- notes the anarchical society garret wilson [PDF]
- edexcel gcse past papers geography (PDF)
- funeral in berlin len deighton (2023)
- networks on chips technology and tools systems on silicon (PDF)
- the penguin of first world war poetry 2nd edn penguin twentieth century classics Copy
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