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# Decision Support Systems Putting Theory Into Practice

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Data Science and Productivity Analytics  
Computer Aided Decision Support in Telecommunications  
Information Management  
Handbook on Decision Support Systems 2  
Decision Support Systems  
Building Decision Support Systems  
Implications of Modern Decision Science for Military Decision-Support Systems  
Handbook on Decision Support Systems 1  
Decision Support Systems  
Encyclopedia of Decision Making and Decision Support Technologies  
Decision Support System (DSS) for Water Distribution Management  
Proceedings of the 4th International Conference on Decision Support System  
Technology - ICDSST 2018 & PROMETHEE DAYS 2018  
Foundations of Decision Support Systems  
Creative Systems in Structural and Construction Engineering  
Research Anthology on Decision Support Systems and Decision Management in  
Healthcare, Business, and Engineering  
Decision Support Systems in the 21st Century  
Thinking, Fast and Slow  
Building Model Driven Decision Support Systems with Dicoless  
Decision Support Systems in Agriculture, Food and the Environment: Trends,  
Applications and Advances  
Introducing Decision Support Systems  
Decision-Making Support Systems: Achievements and Challenges for the New  
Decade  
Strategic Alignment Process and Decision Support Systems  
Context-Sensitive Decision Support Systems  
Climate Change, Intercropping, Pest Control and Beneficial Microorganisms  
Decision Support Systems and Intelligent Systems  
Effective Business Intelligence Systems  
Clinical Decision Support Systems  
Decision Support Systems  
Perspectives of Information Systems  
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Decision Support Systems  
Intelligent Decision-making Support Systems  
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Decision Support Systems

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## SHANNON YOSELIN

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*Data Science and Productivity Analytics*  
IGI Global

Researchers and practitioners interested in the current Decision Support System (DSS) and the shape of future DSS are the intended audience of this book.

There is a particular, recurring emphasis on the adaptation of artificial intelligence techniques for use in the DSS world. The chapters are organized in two major sections, the first dealing with theoretical topics and the second with applications.

### **Computer Aided Decision Support in Telecommunications**

Springer Nature  
An examination of creative systems in structural and construction engineering taken from conference proceedings. Topics covered range from construction methods, safety and quality to seismic response of structural elements and soils and pavement analysis.

*Information Management* Springer  
Science & Business Media

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.

Handbook on Decision Support Systems  
2 IWMI

"Geared for managers and business practitioners operating in a web-centric environment, this text presents the most current research on information management in conjunction with support systems and multimedia technology. The useful models of decision making provided incorporate cooperative information processing, knowledge-based personalizations, and intelligent transportation systems. Electronic journalism, distance learning, and activity theory are also covered."

Decision Support Systems Springer  
Science & Business Media

A collection of articles on Decision Support Systems (DDS), Group Decision Support Systems (GDSS), Executive Information Systems (EIS) and Expert Systems (ES), which presents a conceptual-theoretical framework on which to build an understanding of how DSS and related systems are built and used.

Building Decision Support Systems  
Springer Science & Business Media

B> This book is widely known for its comprehensive treatment of decision support theory and how it is applied. Through four editions, this book has defined the course and set the standard for up-to-date coverage of the latest decision support theories and practices by managers and organizations. This

fifth edition has been streamlined and updated throughout to reflect new computing technologies. Chapter 9 has been completely rewritten to focus on the Internet and Intranet. The reader will find expanded coverage of data warehousing, data mining, on-line analytical processes, and an entirely new chapter on intelligent agents (Ch. 19). Internet related topics and links to Internet exercises and cases appear throughout the new edition.

**Implications of Modern Decision Science for Military Decision-Support Systems** Springer Science & Business Media

As national and international concern over sustainable resources becomes more prevalent, the need for decision support systems (DSS) increases. The applicable uses of a successful system can assist in the sustainability of resources, as well as the efficiency and management of the agri-environment industry. *Decision Support Systems in Agriculture, Food and the Environment: Trends, Applications and Advances* presents the development of DSS for managing agricultural and environmental systems, focusing on the exposition of innovative methodologies, from web-mobile systems to artificial intelligence and knowledge-based DSS, as well as their applications in every aspect from harvest planning to international food production and land management. This book provides an in depth look into the growing importance of DSS in agriculture.

**Handbook on Decision Support Systems 1** Springer Science & Business Media

In bringing together this book, the editors have kept two goals in mind. Firstly, the goal of educating the reader by giving an insight into the wealth of

computing and mathematical techniques now being used to build decision support systems. Secondly, of aiming to stimulate the imagination by including an eclectic mix of contributions from a wide range of business areas to demonstrate that there is no field in which modern decision support techniques cannot usefully be applied. The quintessence of decision support systems is that they are designed to assist people in establishing the best course of action in a given situation but not to automate or tell them prescriptively how to achieve a goal. *Decision Support Systems* CRC Press Major New York Times bestseller Winner of the National Academy of Sciences Best Book Award in 2012 Selected by the New York Times Book Review as one of the ten best books of 2011 A Globe and Mail Best Books of the Year 2011 Title One of The Economist's 2011 Books of the Year One of The Wall Street Journal's Best Nonfiction Books of the Year 2011 2013 Presidential Medal of Freedom Recipient Kahneman's work with Amos Tversky is the subject of Michael Lewis's *The Undoing Project: A Friendship That Changed Our Minds* In his mega bestseller, *Thinking, Fast and Slow*, Daniel Kahneman, the renowned psychologist and winner of the Nobel Prize in Economics, takes us on a groundbreaking tour of the mind and explains the two systems that drive the way we think. System 1 is fast, intuitive, and emotional; System 2 is slower, more deliberative, and more logical. The impact of overconfidence on corporate strategies, the difficulties of predicting what will make us happy in the future, the profound effect of cognitive biases on everything from playing the stock market to planning our next vacation—each of these can be

understood only by knowing how the two systems shape our judgments and decisions. Engaging the reader in a lively conversation about how we think, Kahneman reveals where we can and cannot trust our intuitions and how we can tap into the benefits of slow thinking. He offers practical and enlightening insights into how choices are made in both our business and our personal lives—and how we can use different techniques to guard against the mental glitches that often get us into trouble. Winner of the National Academy of Sciences Best Book Award and the Los Angeles Times Book Prize and selected by The New York Times Book Review as one of the ten best books of 2011, *Thinking, Fast and Slow* is destined to be a classic.

Encyclopedia of Decision Making and Decision Support Technologies IGI Global

This book includes a spectrum of concepts, such as performance, productivity, operations research, econometrics, and data science, for the practically and theoretically important areas of 'productivity analysis/data envelopment analysis' and 'data science/big data'. Data science is defined as the collection of scientific methods, processes, and systems dedicated to extracting knowledge or insights from data and it develops on concepts from various domains, containing mathematics and statistical methods, operations research, machine learning, computer programming, pattern recognition, and data visualisation, among others. Examples of data science techniques include linear and logistic regressions, decision trees, Naïve Bayesian classifier, principal component analysis, neural networks, predictive modelling, deep learning, text analysis, survival analysis, and so on, all

of which allow using the data to make more intelligent decisions. On the other hand, it is without a doubt that nowadays the amount of data is exponentially increasing, and analysing large data sets has become a key basis of competition and innovation, underpinning new waves of productivity growth. This book aims to bring a fresh look onto the various ways that data science techniques could unleash value and drive productivity from these mountains of data. Researchers working in productivity analysis/data envelopment analysis will benefit from learning about the tools available in data science/big data that can be used in their current research analyses and endeavours. The data scientists, on the other hand, will also get benefit from learning about the plethora of applications available in productivity analysis/data envelopment analysis.

**Decision Support System (DSS) for Water Distribution Management**

Farrar, Straus and Giroux

Over the past two decades, many advances have been made in the decision support system (DSS) field. They range from progress in fundamental concepts, to improved techniques and methods, to widespread use of commercial software for DSS development. Still, the depth and breadth of the DSS field continues to grow, fueled by the need to better support decision making in a world that is increasingly complex in terms of volume, diversity, and interconnectedness of the knowledge on which decisions can be based. This continuing growth is facilitated by increasing computer power and decreasing per-unit computing costs. But, it is spearheaded by the multifaceted efforts of DSS researchers.

The collective work of these researchers runs from the speculative to the normative to the descriptive. It includes analysis of what the field needs, designs of means for meeting recognized needs, and implementations for study. It encompasses theoretical, empirical, and applied orientations. It is concerned with the invention of concepts, frameworks, models, and languages for giving varied, helpful perspectives. It involves the discovery of principles, methods, and techniques for expeditious construction of successful DSSs. It aims to create computer-based tools that facilitate DSS development. It assesses DSS efficacy by observing systems, their developers, and their users. This growing body of research continues to be fleshed out and take shape on a strong, but still-developing, skeletal foundation.

**Proceedings of the 4th International Conference on Decision Support System Technology - ICDSST 2018 & PROMETHEE DAYS 2018** Alfred Waller

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.

Foundations of Decision Support Systems Springer Science & Business Media

The focus of Decision Support Systems is on how one can & should use what has been learned in programming & modeling courses to develop systems that provide decision support. Pages on the World Wide Web will be available to support this book.

Creative Systems in Structural and Construction Engineering Springer Science & Business Media

To make the best decisions, you need the best information. However, because most issues in game theory are grey, nearly all recent research has been carried out using a simplified method that considers grey systems as white ones. This often results in a forecasting function that is far from satisfactory when applied to many real situations.

Grey Ga

**Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering** Academic Press

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, and social sciences. Indeed, sustainable agriculture decipher mechanisms of processes that occur from the molecular level to the farming system to the global level at time scales ranging from seconds to centuries. For

that, scientists use the system approach that involves studying components and interactions of a whole system to address scientific, economic and social issues. In that respect, sustainable agriculture is not a classical, narrow science. Instead of solving problems using the classical painkiller approach that treats only negative impacts, sustainable agriculture treats problem sources. Because most actual society issues are now intertwined, global, and fast-developing, sustainable agriculture will bring solutions to build a safer world. This book series gathers review articles that analyze current agricultural issues and knowledge, then propose alternative solutions. It will therefore help all scientists, decision-makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

*Decision Support Systems in the 21st Century* Wiley-Blackwell

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.

*Thinking, Fast and Slow* CRC Press

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.

**Building Model Driven Decision Support Systems with Dicoless** vdf Hochschulverlag AG

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.

*Decision Support Systems in Agriculture, Food and the Environment: Trends, Applications and Advances* Springer

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.

### **Introducing Decision Support Systems** iUniverse

The impact of information techniques in all economic activities has been tremendous during the past decade. However, the potential of the multiple management methods and technologies derived from this field has not been fully realized in the irrigation sector. One area of application of information techniques concern the design and installation of Decision Support Systems (DSS). This area, used for the particular activities relating to the management of water in irrigation schemes, constitutes the theoretical background of this paper

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