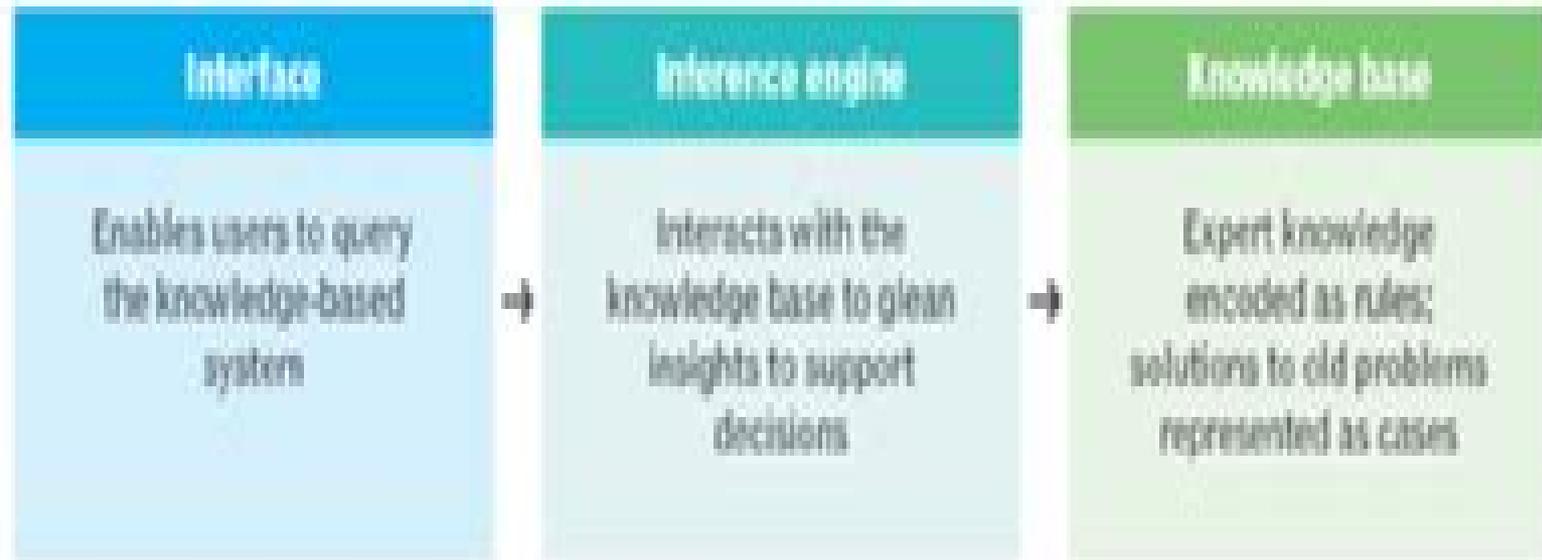


# Knowledge-based systems architecture



# Decision Support Systems A Knowledge Based Approach

**Georgios I. Doukidis**



## **Decision Support Systems A Knowledge Based Approach:**

Decision Support Systems C. W. Holsapple, Andrew B. Whinston, 1996      Handbook on Decision Support Systems 1  
Frada Burstein, Clyde W. Holsapple, 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      Decision Support Systems Clyde W. Holsapple, Andrew B. Whinston, 1996-01-01      Decision Support Systems Clyde W. Holsapple, 2001      *Foundations of Decision Support Systems* Robert H. Bonczek, Clyde W. Holsapple, Andrew B. Whinston, 2014-05-10 Foundations of Decision Support Systems focuses on the frameworks strategies and techniques involved in decision support systems DSS The publication first takes a look at information processing decision making and decision support frameworks for organizational information processing and decision making and representative decision support systems Discussions focus on classification scheme for DSS abilities required for decision making division of information processing labor within an organization and decision support The text then elaborates on ideas in decision support formalizations of purposive systems and conceptual and operational constructs for building a data base knowledge system The book takes a look at building a data base knowledge system language systems for data base knowledge systems and problem processing systems for data base knowledge systems Topics include problem processors for computationally oriented DSS major varieties of logical data structures and indirect associations among concepts The manuscript also examines operationalizing modeling knowledge in terms of predicate calculus combining the data base and formal logic approaches and the language and knowledge systems of a DSS based on formal logic The publication is a valuable reference for researchers interested in decision support systems

**Manufacturing Decision Support Systems** Hamid R. Parsaei, Thomas R. Hanley, S.S. Kolli, 2012-12-06 During the last two decades a tremendous growth in the popularity and applications of computers in manufacturing has occurred Computer aided design computer aided manufacturing flexible manufacturing systems group technology and many others are considered by many manufacturing executives as the most promising technologies and philosophies that if successfully implemented can reduce costs and enable the US manufacturing companies to become more competitive in the global market In the computer integrated manufacturing environment the decision processes are often more involved The decision makers are frequently required to have access to a vast amount of data to support and analyze their complex decision problems at strategic and tactical levels Decision support systems are often referred to as computer based information technologies that allow the decision makers to interactively communicate and solve the decision problems Manufacturing Decision Support

Systems is intended to report the latest developments and address the central issues in this area This volume consists of 14 refereed chapters written by leading researchers from academia and industry Handbook on Decision Support Systems 2 Frada Burstein, Clyde W. Holsapple, 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 *Intelligent Decision Making: An AI-Based Approach* Gloria Phillips-Wren, Nikhil Ichalkaranje, 2008-03-04 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 **Decision Support Systems** Ger Devlin, 2010-03-01 This book by In Tech publishing helps the reader understand the power of informed decision making by covering a broad range of DSS Decision Support Systems applications in the fields of medical environmental transport and business The expertise of the chapter writers spans an equally extensive spectrum of researchers from around the globe including universities in Canada Mexico Brazil and the United States to institutes and universities in Italy Germany Poland France United Kingdom Romania Turkey and Ireland to as far east as Malaysia and Singapore and as far north as Finland Decision Support Systems are not a new technology but they have evolved and developed with the ever demanding necessity to analyse a large number of options for decision makers DM for specific situations where there is an increasing level of uncertainty about the problem at hand and where there is a high impact relative to the correct decisions to be made DSS s offer decision makers a more stable solution to solving the semi structured and unstructured problem This is exactly what the reader will see in this book *Decision Support Systems and Intelligent Systems* Efraim Turban, Jay E. Aronson, Ting-Peng Liang, 2005 Appropriate for all courses in Decision Support Systems DSS

computerized decision making tools and management support systems Today's networked computer systems enable executives to use information in radically new ways to make dramatically more effective decisions and make those decisions more rapidly Decision Support Systems and Intelligent Systems Seventh Edition is a comprehensive up to date guide to today's revolutionary management support system technologies and how they can be used for better decision making In this thoroughly revised edition the authors go far beyond traditional decision support systems focusing far more coverage on Web enabled tools performance analysis knowledge management and other recent innovations The authors introduce each significant new technology show how it works and offer practical guidance on integrating it into real world organizations Examples products services and exercises are presented throughout and the text has been revised for improved clarity and readability New and enhanced coverage includes state of the art data mining OLAP expert system and neural network software revamped coverage of knowledge management and a far greater emphasis on the use of Web technologies throughout Also covered in detail data warehousing including access analysis visualization modeling and support This edition also contains DSS In Action boxes presenting real business scenarios for the use of advanced management support technology Decision Support Systems and Intelligent Systems Seventh Edition is supported by a Web site containing additional readings relevant links and other supplements

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*Decision Support Systems for Sustainable Development* Gregory E. Kersten, Zbigniew Mikolajuk, Anthony Gar-On Yeh, 2006-03-01 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

**Decision Support Systems** Vicki L. Sauter, 1997 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

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*SYSTEMS: THE INTERNATIONAL JOURNAL*, 1998      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      Knowledge-Based Decision Support Systems With Applications in Business Michel Klein, Leif B. Methlie, 1995-09-13 This book uniquely integrates expert system technology with decision support technology and introduces a new conceptual framework knowledge based decision support systems The book provides comprehensive knowledge based decision support systems for a business oriented audience      **The State-of-the-art in Decision Support Systems** Gerald W. Hopple, 1988      **Knowledge-based Management Support Systems** Georgios I. Doukidis, 1989      *Decision Support Systems and Electronic Commerce*, 2003-04      **Decision Support Systems and Intelligent Systems** Efraim Turban, Jay E. Aronson, 1998 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

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