

## **MODULE - 9 LECTURE NOTES - 4**

### **DECISION SUPPORT SYSTEMS**

#### **INTRODUCTION**

DSS is an interactive computer-based system to help decision makers use communications technologies, data, documents, knowledge and/or models to identify and solve problems, complete decision process tasks, and make decisions. Geographic Information Systems (GIS), Enterprise Information Systems (EIS), Expert Systems (ES), On-Line Analytical Processing (OLAP), software agents, knowledge discovery systems and group DSS can all be lumped into the category of systems we call as DSS.

#### **DSS FOR DECISION-MAKING**

##### Decision Preparation

- DSS environments provide data required as input to the decision-making process.
- This is what almost all data mart and data warehousing environments do today.

##### Decision structuring

- DSS environments provide tools and models for arranging the inputs in ways that make sense to frame the decision.
- These tools and models are not pivot tables and other aspects of data presentation found in query tools.
- They are actual decision-making tools, like fault tree analysis, Bayesian logic and model-based decision-making based on things like neural networks.

##### Context Development

- DSS environments again provide tools, and provide the mechanisms for capturing information about a decision's constituencies (who are affected by this decision), outcomes and their probabilities, and other elements of the larger decision-making context.

##### Decision-making

- DSS environments may automate all or part of the decision-making process and offer evaluations on the optimal decision.
- Expert systems and artificial intelligence environments can do this

##### Decision Propagation

- DSS environments take the information gathered about constituencies, dependencies, outcomes and drive elements of the decision into those constituencies for action.

# Module 9 Lecture Notes Decision Support Systems

## Introduction

**Patrick Humphreys**



## **Module 9 Lecture Notes Decision Support Systems Introduction:**

### **The Development of an Integrated Planning and Decision Support System (IPDSS) for Land Consolidation**

Demetris Demetriou,2013-11-01 This book provides an extensive review of three interrelated issues land fragmentation land consolidation and land reallocation and it presents in detail the theoretical background design development and application of a prototype integrated planning and decision support system for land consolidation The system integrates geographic information systems GIS and artificial intelligence techniques including expert systems ES and genetic algorithms GAs with multi criteria decision methods MCDM both multi attribute MADM and multi objective MODM The system is based on four modules for measuring land fragmentation automatically generating alternative land redistribution plans evaluating those plans and automatically designing the land partitioning plan The presented research provides a new scientific framework for land consolidation planning both in terms of theory and practice by presenting new findings and by developing better tools and methods embedded in an integrated GIS environment It also makes a valuable contribution to the fields of GIS and spatial planning as it provides new methods and ideas that could be applied to improve the former for the benefit of the latter in the context of planning support systems From the 1960s ambitious research activities set out to observe regarding IT support of the complex and time consuming redistribution processes within land consolidation without any practically relevant results until now This scientific work is likely to close that gap This distinguished publication is highly recommended to land consolidation planning experts researchers and academics alike Prof Dr Ing Joachim Thomas M nster Germany Planning support systems take new scientific tools based on GIS optimisation and simulation and use these to inform the process of plan making and policy This book is one of the first to show how this can be consistently done and it is a triumph of demonstrating how such systems can be made operational Essential reading for planners analysts and GI scientists Prof Michael Batty University College London *Decision Support Systems and Electronic Commerce* ,2003-04 **Subject Guide to Books in Print** ,1993 **Encyclopedia of Decision Making and Decision Support Technologies** Patrick Humphreys,2008 Presenting a critical mass of the most up to date research on human and computer support of managerial decision making this reference includes discussions on support of operational tactical and strategic decisions and much more

**Harvard Business School ... Catalog of Teaching Materials** ,1998 **ECCWS2014-Proceedings of the 13th European Conference on Cyber warfare and Security** Andrew Liaropoulos,George Tsihrintzis,2014-03-07

**ACM Curricula Recommendations for Information Systems** Association for Computing Machinery,1983

*User-oriented Methodology and Techniques of Decision Analysis and Support* Jaap Wessels,International Institute for Applied Systems Analysis,1993 This book presents selected papers from an international workshop devoted to the theory techniques and tools of decision analysis and support Major trends in the development of this field are stressed such as the tendency to place the final user of a decision support system in the center of attention or an emerging connection between

tools and software environments for modeling and for decision support The volume is a continuation of the reports on earlier meetings which were published in the same series

**ACM Curricula Recommendations for Computer Science** Association for Computing Machinery, 1983

Books in Print, 1994

Resources in Education, 1980

Theory and Applications of Ordered Fuzzy Numbers Piotr Prokopowicz, Jacek Czerniak, Dariusz Mikołajewski, Łukasz Apiecionek, Dominik Ślęzak, 2017-10-18 This book is open access under a CC BY 4.0 license This open access book offers comprehensive coverage on Ordered Fuzzy Numbers providing readers with both the basic information and the necessary expertise to use them in a variety of real world applications The respective chapters written by leading researchers discuss the main techniques and applications together with the advantages and shortcomings of these tools in comparison to other fuzzy number representation models Primarily intended for engineers and researchers in the field of fuzzy arithmetic the book also offers a valuable source of basic information on fuzzy models and an easy to understand reference guide to their applications for advanced undergraduate students operations researchers modelers and managers alike

Decision Support Systems for Production and Operations Management (DSSPOM) Vahid Lotfi, C. Carl Pegels, 1991 Decision support programme for production and operations management

**Information Systems Concepts** Raymond McLeod, 1994

**Digging into Software Knowledge Generation in Cultural Heritage** Patricia Martin-Rodilla, 2017-10-14 This book focuses on innovative strategies to manage and build software systems for generating new knowledge from large archaeological data sets The book also reports on two case studies carried out in real world scenarios within the Cultural Heritage setting The book presents an original conceptual framework for developing software solutions to assist the knowledge generation process in connection with large archaeological data sets and related cultural heritage information a context in which the inputs are mainly textual sources written in freestyle i.e. without a predetermined standard structure Following an in depth exploration of recent works on the knowledge generation process in the above mentioned context and IT based options for facilitating it the book proposes specific new techniques capable of capturing the structure and semantics implicit in such textual sources and argues for using this information in the knowledge generation process The main result is the development of a conceptual framework that can accommodate textual sources and integrate the information included in them into a software engineering framework The said framework is meant to assist cultural heritage professionals in general and archaeologists in particular in both knowledge extraction and the subsequent decision making process

**Managing Health Systems Research** Indra Parthamanathan, Indra Pathmanathan, 1992 Health Systems Research Training Series Vol 4 Managing health systems

**Scientific and Technical Books and Serials in Print**, 1989

Information Systems Design Methodologies T. William Olle, Henk G. Sol, A. A. Verrijn Stuart, 1986 The aim of this volume is to disseminate the most recent and pertinent thought on information systems a key asset in modern industry and commerce to those whose everyday work calls for improving the information available for management support for decision making and for routine record keeping The

book focuses on the needs of practitioners with contributions from experienced designers and their trainers and from researchers Specific topics include the attempt to establish a yardstick of quality for design product specifications and the examination of factors influencing the cost effectiveness of designing information systems

**The New Educational Programs in Public Policy** John P. Crecine,1982      **Research in Public Policy Analysis and Management** ,1982

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