# Knowledge-based systems architecture

# Interface

Enables users to query the knowledge-based system

曲

# Inference engine

Interacts with the knowledge base to glean insights to support decisions

# Knowledge base

Expert knowledge encoded as rules; solutions to old problems represented as cases

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

Gregory E. Kersten, Zbigniew
Mikolajuk, Anthony Gar-On Yeh

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

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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 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 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 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 Todays 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 todays 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

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