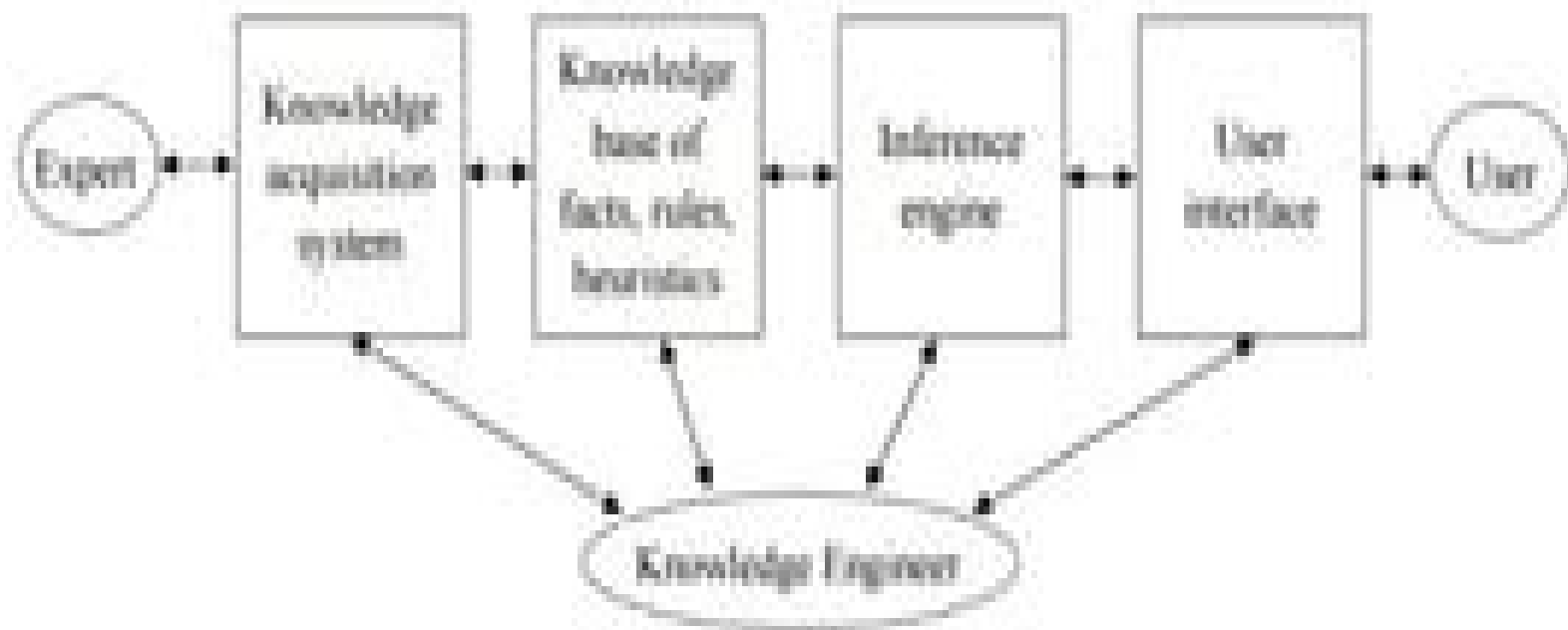




5.1) Expert system

□ Architecture of Expert Systems

- The process of building expert systems is often called knowledge engineering. The knowledge engineer is involved with all components of an expert system



Building Expert Systems Teknowledge Series In Knowledge Engineering

Michael Rychener



Building Expert Systems Teknowledge Series In Knowledge Engineering:

Expert Systems for Engineering Design Michael Rychener, 2012-12-02 Expert Systems for Engineering Design presents the application of expert system methods to a variety of engineering design problems This book provides the technical details on how the methods are used to solve specific design problems in chemical engineering civil engineering and several others Organized into 12 chapters this book begins with an overview of the synthesis the creation and development of alternative designs This text then examines the nature of design expertise and the types of computer tools that can enhance the expert s decision making Other chapters consider the integration of tools into intelligent cooperative frameworks This book discusses as well the use of graphic interfaces with built in knowledge about the designs being configured The final chapter deals with the development of software tools for automatic design synthesis and evaluation within the integrated framework of a computer aided mechanical design system known as CASE which stands for computer aided simultaneous engineering This book is a valuable resource for engineers and architects Building expert systems Frederick Hayes-Roth, 1985

Building Expert Systems Frederick Hayes-Roth, Donald Arthur Waterman, Douglas B. Lenat, 1983 Computer science textbook computer programming knowledge processing data processing evaluation and design of expert systems Bibliography glossary illustrations

Topics in Expert System Design C. Tasso, G. Guida, 2014-06-28 Expert Systems are so far the most promising achievement of artificial intelligence research Decision making planning design control supervision and diagnosis are areas where they are showing great potential However the establishment of expert system technology and its actual industrial impact are still limited by the lack of a sound general and reliable design and construction methodology This book has a dual purpose to offer concrete guidelines and tools to the designers of expert systems and to promote basic and applied research on methodologies and tools It is a coordinated collection of papers from researchers in the USA and Europe examining important and emerging topics methodological advances and practical experience obtained in specific applications Each paper includes a survey introduction and a comprehensive bibliography is provided **Expert Systems**

Technology and Its Implication for Archives Avra Michelson, 1991 **Encyclopedia of Artificial Intelligence** Philip L. Frana, Michael J. Klein, 2021-04-07 This authoritative reference work will provide readers with a complete overview of artificial intelligence AI including its historic development and current status existing and projected AI applications and present and potential future impact on the United States and the world Some people believe that artificial intelligence AI will revolutionize modern life in ways that improve human existence Others say that the promise of AI is overblown Still others contend that AI applications could pose a grave threat to the economic security of millions of people by taking their jobs and otherwise rendering them obsolete or even worse that AI could actually spell the end of the human race This volume will help users understand the reasons AI development has both spirited defenders and alarmed critics explain theories and innovations like Moore s Law mindcloning and Technological Singularity that drive AI research and debate and give readers

the information they need to make their own informed judgment about the promise and peril of this technology All of this coverage is presented using language and terminology accessible to a lay audience *Building Expert Systems* Frederick Hayes-Roth, Donald Arthur Waterman, Douglas B. Lenat, 1983 Computer science textbook computer programming knowledge processing data processing evaluation and design of expert systems Bibliography glossary illustrations **Self-organized collaborative knowledge management** Christoph Schmitz, 2007 **SHYSTER: A Pragmatic Legal Expert System** James Popple, 1993-04-29 Most legal expert systems attempt to implement complex models of legal reasoning But the utility of a legal expert system lies not in the extent to which it simulates a lawyer s approach to a legal problem but in the quality of its predictions and of its arguments A complex model of legal reasoning is not necessary a successful legal expert system can be based upon a simplified model of legal reasoning Some researchers have based their systems upon a jurisprudential approach to the law yet lawyers are patently able to operate without any jurisprudential insight A useful legal expert system should be capable of producing advice similar to that which one might get from a lawyer so it should operate at the same pragmatic level of abstraction as does a lawyer not at the more philosophical level of jurisprudence A legal expert system called SHYSTER has been developed to demonstrate that a useful legal expert system can be based upon a pragmatic approach to the law SHYSTER has a simple representation structure which simplifies the problem of knowledge acquisition Yet this structure is complex enough for SHYSTER to produce useful advice SHYSTER is a case based legal expert system although it has been designed so that it can be linked with a rule based system to form a hybrid legal expert system Its advice is based upon an examination of and an argument about the similarities and differences between cases SHYSTER attempts to model the way in which lawyers argue with cases but it does not attempt to model the way in which lawyers decide which cases to use in those arguments Instead it employs statistical techniques to quantify the similarity between cases It decides which cases to use in argument and what prediction it will make on the basis of that similarity measure SHYSTER is of a general design it can provide advice in areas of case law that have been specified by a legal expert using a specification language Hence it can operate in different legal domains Four different and disparate areas of law have been specified for SHYSTER and its operation has been tested in each of those domains Testing of SHYSTER in these four domains indicates that it is exceptionally good at predicting results and fairly good at choosing cases with which to construct its arguments SHYSTER demonstrates the viability of a pragmatic approach to legal expert system design **A Pragmatic Legal Expert System** James Popple, 1996-05-21 Most legal expert systems attempt to implement complex models of legal reasoning This book argues that a complex model is unnecessary It advocates a simpler pragmatic approach in which the utility of a legal expert system is evaluated by reference not to the extent to which it simulates a lawyer s approach to a legal problem but to the quality of its predictions and of its arguments The author describes the development of a legal expert system called SHYSTER which takes a pragmatic approach to case law He discusses the testing of SHYSTER in four different

and disparate areas of case law and draws conclusions about the advantages and limitations of this approach to legal expert system development Chapter 1 presents a critical analysis of previous work of relevance to the development of legal expert systems Chapter 2 explains the pragmatic approach that was adopted in the development of SHYSTER The implementation of SHYSTER is detailed using examples in chapter 3 Chapter 4 describes the testing of SHYSTER and conclusions are drawn from those tests in chapter 5 Examples of SHYSTER s output are provided in appendices

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