



Automated Knowledge Acquisition

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Automated Knowledge Acquisition:

Automating Knowledge Acquisition for Expert Systems Sandra Marcus, 2013-03-08 In June of 1983 our expert systems research group at Carnegie Mellon University began to work actively on automating knowledge acquisition for expert systems In the last five years we have developed several tools under the pressure and influence of building expert systems for business and industry These tools include the five described in chapters 2 through 6 MORE MOLE SALT KNACK and SIZZLE One experiment conducted jointly by developers at Digital Equipment Corporation the Soar research group at Carnegie Mellon and members of our group explored automation of knowledge acquisition and code development for XCON also known as R1 a production level expert system for configuring DEC computer systems This work influenced the development of RIME a programming methodology developed at Digital which is the subject of chapter 7 This book describes the principles that guided our work looks in detail at the design and operation of each tool or methodology and reports some lessons learned from the enterprise of the work brought out in the introductory chapter is A common theme that much power can be gained by understanding the roles that domain knowledge plays in problem solving Each tool can exploit such an understanding because it focuses on a well defined problem solving method used by the expert systems it builds Each tool chapter describes the basic problem solving method assumed by the tool and the leverage provided by committing to the method

Automated Knowledge Acquisition for Expert Systems Marie José Vlaanderen, 1990 [Investigation of Automated Knowledge Acquisition](#) Acquired Intelligence Inc, National Research Council Canada. Research Projects Support Office, 1988 [Automated Knowledge Acquisition for Second Generation Knowledge Base Systems](#), 1991 In this paper we present a conceptual analysis of knowledge base development methodologies The purpose of this research is to help overcome the high cost and lack of efficiency in developing knowledge base representations for artificial intelligence applications To accomplish this purpose we analyzed the available methodologies and developed a knowledge base development methodology taxonomy We review manual machine aided and machine learning methodologies A set of developed characteristics allows description and comparison among the methodologies We present the results of this conceptual analysis of methodologies and recommendations for development of more efficient and effective tools [A Collection of Papers on Automated Knowledge Acquisition Systems](#), 1992 A collection of four papers describing the principal findings of doctoral research into the development of computer methods which fully automate the process of knowledge acquisition [Automated Generation of Model-based Knowledge-acquisition Tools](#) Mark A. Musen, 1989 **Automated Knowledge Acquisition Within a Concurrent Engineering Environment Using Artificial Intelligence Techniques** R.S. Gault, 1995 **Automated Knowledge Acquisition from Databases** Qing Yan, 1993 **Automated Knowledge Acquisition for Knowledge-based Systems, KE-RIT** John Scott Parsons, 1992 Despite recent progress knowledge acquisition remains a central problem for the development of intelligent systems There are many people throughout the

world doing studies in this area. However, very few automated techniques have made it to the market place. In this light, the idea of automating the knowledge acquisition process is very appealing and may lead to a breakthrough. Most, if not all, of the approaches and techniques concerning intelligent expert systems and specifically knowledge based systems can still be considered in their infancy and definitely do not subscribe to any kind of standards. Many things have yet to be learned and incorporated into the technology and combined with methods from traditional computer science and psychology. KE KIT is a prototype system which attempts to automate a portion of the knowledge engineering process. The emphasis is on the automation of knowledge acquisition activities. However, the transformation of knowledge from an intermediate form to a knowledge base format is also addressed. The approach used to automate the knowledge acquisition process is based on the personal construct theory developed by George Kelly in the field of psychology. This thesis gives an in depth view of knowledge engineering with a concentration on the knowledge acquisition process. Several issues and approaches are described. Greater details surrounding the personal construct theory approach to knowledge acquisition and its use of a repertory grid are given. In addition, some existing knowledge acquisition tools are briefly explored. Details concerning the implementation of KE KIT and reflections on its applicability round out the presented material.

Abstract **Knowledge Acquisition: Selected Research and Commentary** Sandra Marcus, 2012-12-06. What follows is a sampler of work in knowledge acquisition. It comprises three technical papers and six guest editorials. The technical papers give an in depth look at some of the important issues and current approaches in knowledge acquisition. The editorials were produced by authors who were basically invited to sound off. I've tried to group and order the contributions somewhat coherently. The following annotations emphasize the connections among the separate pieces. Buchanan's editorial starts on the theme of Can machine learning offer anything to expert systems. He emphasizes the practical goals of knowledge acquisition and the challenge of aiming for them. Lenat's editorial briefly describes experience in the development of CYC that straddles both fields. He outlines a two phase development that relies on an engineering approach early on and aims for a crossover to more automated techniques as the size of the knowledge base increases. Bareiss, Porter and Murray give the first technical paper. It comes from a laboratory of machine learning researchers who have taken an interest in supporting the development of knowledge bases with an emphasis on how development changes with the growth of the knowledge base. The paper describes two systems. The first, Protos, adjusts the training it expects and the assistance it provides as its knowledge grows. The second, KI, is a system that helps integrate knowledge into an already very large knowledge base.

Automated Knowledge Acquisition Sabrina Sestito, Tharam S. Dillon, 1994. This tutorial provides clear explanations of techniques for automated knowledge acquisition. The techniques covered include decision tree methods, progressive rule generation, explanation based learning, artificial neural networks, and genetic algorithm approaches. The book is suitable for both advanced undergraduate and graduate students and computer professionals.

Automated Knowledge Acquisition for Strategic Knowledge Stanford

University. Computer Science Dept. Knowledge Systems Laboratory, Thomas R. Gruber, 1989 **Automated Knowledge Acquisition Via Inductive Learning** Chrysanthus Shervanthie De Almeida, 1993 Automated Knowledge Acquisition from Routine Data for Process and Quality Control Don Shyan-Shu Shieh, 1992 **Exemplar-Based Knowledge Acquisition** Ray Bareiss, 2014-05-10 Exemplar Based Knowledge Acquisition A Unified Approach to Concept Representation Classification and Learning covers the fundamental issues in cognitive science and the technology for solving real problems This text contains six chapters and begins with a description of the rationale for the design of Protos Approach its construction and performance The succeeding chapters discuss how the Protos approach meets the requirements of representing concepts using them for classification and acquiring them from available training These chapters also deal with the design and implementation of Protos These topics are followed by a presentation of examples of the application of Protos to audiology and evaluate its performance The final chapters survey related work in the areas of case based reasoning and automated knowledge acquisition and the contributions of Protos approach This book will be of great value to psychologists psychiatrists and researchers in the field of artificial intelligence *Design, Development, and Testing of an Automated Knowledge-acquisition Tool to Aid Problem Solving, Decision Making, and Planning* Timothy George Kotnour, 1992

Research in Automated Knowledge Acquisition of Device Knowledge for Simulation-based Tutoring Systems Carol Davis Horwitz, 1992 **Automated Knowledge Acquisition for a Hierarchical Synthesis System** William P. Birmingham, Carnegie-Mellon University. Engineering Design Research Center, 1988 *Machine Learning and Knowledge Acquisition* Gheorghe Tecuci, Yves Kodratoff, 1995 Currently both fields are moving towards an integrated approach using machine learning techniques to automate knowledge acquisition from experts and knowledge acquisition techniques to guide and assist the learning process **Automated Knowledge Acquisition Tool for Identification of Generic Tasks** Arlene J. Buck, 1990 Recent research in the Knowledge Acquisition KA field centers on defining a formal methodology for the KA process This research includes the following goals automating the KA process to decrease the KA time constraint applying psychological techniques to extract the underlying structure of the expert s knowledge and defining expertise in terms of generic tasks to yield possible knowledge organizations and strategies for the implementation of the expert system This thesis provides an overview of the benefits and concerns of an automated KA system psychological scaling techniques as they apply to KA and the relevance of generic tasks A generic task defines a knowledge type and organization and a control strategy that characterizes a component of an expert system This thesis also includes the design and implementation of a Knowledge Acquisition Tool for Identification of Generic Tasks This tool provides an interface to the expert for the initial KA encounter Using psychological techniques the tool extracts a list of the main concepts of expertise and elicits a rating from the expert comparing the similarity of each of these concepts to generic task concepts The results become inputs to a clustering technique that organize the concepts into the generic tasks The result of any concepts that do not cluster could

identify a previously undefined generic task The implementation is in the C language accessing the FASTCLUS procedure of the SAS software package for VAX hardware Abstract

The Enigmatic Realm of **Automated Knowledge Acquisition**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Automated Knowledge Acquisition** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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Automated Knowledge Acquisition Introduction

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