

Knowledge Engineering and Capitalization for Injection Mold Design

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Abstract. The process of Knowledge Engineering plays an important role in the management of industrial knowledge. By its nature, industrial knowledge is combined and linked together as a chain. Industrial knowledge that is considered "good", i.e., knowledge that is ensured to be complete and usable, must be validated by human experts prior to both its initial and recurring use. This paper proposes the concept of knowledge capitalization associated by PCA method and validated by shop floor experts. Injection mold design is used for testing.

Keywords: Knowledge Management, Knowledge Engineering and Capitalization, Case-Based Reasoning, Injection Mold Design

1. Introduction

The process of knowledge engineering (KE) plays an important role in management of industrial knowledge and building an expert system. It means an engineering discipline that involves integrating knowledge into computer systems in order to solve complex problems normally requiring a high level of human expertise [1]. The KE involves various activities; assessment problem, acquiring and structuring the general and specific knowledge, testing and validating of the stored knowledge, integration and maintenance of the system, revision and evaluation of the system. The KE principles have been developed in order to manage different types of knowledge, different types of experts and expertise, different ways of representing knowledge which can support validation and re-use of knowledge, different way of using knowledge. Knowledge is a set of precise and concise information that could induce a change or arouse more effective actions in a boarder context capable of triggering a new learning and new knowledge. The knowledge of an organization can be classified into two parts; explicit knowledge and tacit knowledge. The former refers the expressed knowledge in a document form, whereas the later refers to an unwritten know-how and keep in deep worker's mind. Knowledge management is presently well-known in anywhere. However, knowledge sharing and transferring is still a question for many people and organizations in order to use knowledge effectively. Knowledge management can be divided into four steps; knowledge formulation, knowledge capitalization, knowledge re-textualization and knowledge sharing. Nowadays, Industrial knowledge is managed by a capitalization concept and become more and more important. To capitalize knowledge means to reuse the knowledge of a given domain previously stored and modelled in order to perform a new task. The knowledge is stored in the database called corporate memory to the industrial experience in a given domain [2]. Knowledge capitalization aims to build a capital from existing information or knowledge in an organization in order to enhance them through their dissemination to other institutions or stakeholders as well as to serve he group in a context of knowledge sharing [3], [4], [5]. The capitalization method can be used by several ways. However, case-based reasoning (CBR) seems to be very relevant. The CBR performs a knowledge base containing cases which are collected from existing knowledge and experience of already

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Management Technology and Applications A. M. Rawani, 2010 *Capitalizing on Investments in Science and Technology* National Academy of Engineering, National Academy of Sciences, Institute of Medicine, National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Committee on Science, Engineering, and Public Policy, 1999-03-18 Although the United States is currently capitalizing on its investment in science and technology effectively there remains much room for improvement This volume identifies the ingredients for success in capitalizing on such investments to produce national benefits assesses current U S performance and identifies future challenges The book cites specific examples and examines several cross cutting issues It explores the possibility that the national research portfolio is losing diversity as a result of less long term research in critical fields such as networking and materials It also examines the implications of imbalances in the supply of and demand for science and engineering talent in emerging interdisciplinary fields such as bioinformatics **Robotics and Artificial Intelligence** Michael Brady, L.A. Gerhardt, H.F. Davidson, 2012-12-06 Dr Lester A Gerhardt Professor and Chairman Electrical Computer and Systems Engineering Rensselaer Polytechnic Institute Troy New York 12180 This book is a collection of papers on the subject of Robotics and Artificial Intelligence Most of the papers contained herein were presented as part of the program of the NATO Advanced Study Institute held in June 1983 at Castel vecchio Pascoli Italy on the same subject Attendance at this two week Institute was by invitation only drawing people internationally representing industry government and the academic community worldwide Many of the people in attendance as well as those presenting papers are recognized leaders in the field In addition to the formal paper presentations there were several informal work shops These included a workshop on sensing a workshop on educational methodology in the subject area as examples This book is an outgrowth and direct result of that Institute and includes the papers presented as well as a few others which were stimulated by that meeting A special note is the paper entitled State of the Art and Predictions for Artificial Intelligence and Robotics by Dr R Nagel which appears in the Introduction and Overview chapter of this book This paper was originally developed as part of a study for the United States Army performed by the National Research Council of the National Academy of Science and published as part of a report entitled Applications of Robotics and Artificial Intelligence to Reduce Risk and Improve Effectiveness by National Academy Press in 1983 **Engineering**, 1970-07 **Looking Ahead** Manufacturing Extension Partnership (National Institute of Standards and Technology (U.S.)), 1998 Chinese Family Businesses in Malaysia Lee Kean Yew, 2025-03-31 Lee focuses on the historical and cultural journey of Chinese family businesses CFBs in Malaysia uncovering the dynamic interplay of ethnic resources generational knowledge and state led development policies that have shaped their survival and success With one of the largest Chinese communities in Southeast Asia Malaysia offers a rich landscape to explore the evolution of CFBs Through analyzing 12 small and medium sized enterprises SMEs across key economic sectors the book examines how Chinese family businesses have

adapted to a shifting landscape from leveraging deep rooted networks and ethnic heritage to navigating government policies that have both challenged and shaped their growth It uncovers key factors such as tacit knowledge innovation and generational transitions that have driven the evolution of these enterprises in Malaysia s competitive business environment Drawing on detailed case studies Lee demonstrates how tradition innovation and strategic decision making converge to sustain business longevity across generations An essential read for researchers students family business practitioners and business historians and anyone interested in understanding the resilience and adaptability of Chinese family businesses

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