

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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