

Verification and Validation of Knowledge-Based Systems

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Abstract—Knowledge-based systems (KBS) are being used in many applications areas where their failures can be costly because of the losses in services, property, or even life. To ensure their reliability and dependability, it is therefore important that these systems are verified and validated before they are deployed. This paper provides perspectives on issues and problems that impact the verification and validation (V&V) of KBS. Some of the reasons V&V of KBS is difficult are presented. The paper also provides an overview of different techniques and tools that have been developed for performing V&V activities. Finally, some of the research issues that are relevant for future work in this field are discussed.

Index Terms—Expert systems, knowledge-based systems, verification, validation, reliability, dependability, testing.

1 INTRODUCTION

EXPERT systems (ES) are intelligent computer systems whose problem-solving performance would rival or exceed human performance in narrow areas of human endeavor, whereas knowledge-based systems (KBS) are computer systems that assist in problem solving. Expert systems and knowledge-based systems are among the fruitful spin-offs from artificial intelligence. Worldwide expert system expenditures in 1993 totaled \$595 million. Today, these systems have found their way into many applications such as knowledge publishing, shuttle mission experiment planning, crew scheduling, medical diagnosis, computer configuration, process control, regulation compliance advising, financial advising, and nuclear engineering.

As these knowledge systems (KS)—we use KS to denote either ES or KBS—are deployed in settings where system failures may result in loss of productivity, decision-making, property, business, services, or even life, the reliability and dependability of the systems become important. It is imperative that the systems are thoroughly verified and validated before they can be deployed in the field. Verification and validation (V&V) of KS therefore is a key aspect of the development of KS. Many V&V techniques and tools have been proposed, developed, and implemented [1], [12], [16], [17], [19], [24], [28], [30], [32], [34], [35], [37], [48].

As the use of KS in various areas grows, many commercial KS are being developed. Many techniques have been applied to the development of these KS and experience has been gained about some of the specific issues and problems faced during the development of KS in the industry. These issues can be useful in understanding the progress made and some of the shortcomings of existing V&V techniques for KS in the context of industrial environments. Table 1 summarizes one survey about current industrial practice in V&V of KS [18], [33].

From Table 1, it is apparent that KS share many characteristics with conventional software. The lack of well-documented requirements, the use of prototypes as requirements and the absence of a well-defined life-cycle model are common to many conventional software development environments also. For instance, inconsistencies, incompleteness, and ambiguity in requirements specifications have been identified as major sources of bugs in software development [5]. But KS also have certain components such as the Inference Engine (IE) and domain knowledge stored in a KB, which are not present in conventional software. Thus, while many issues that impact the V&V of conventional software such as the lack of requirements documents need to be considered, additional issues such as the validation of the IE and its interactions with the KB also need to be addressed. This paper presents a perspective on the issues related to the V&V of KS and some of their goals.

2 DEVELOPMENT OF KS

The development process for a software product specifies how the development tasks are decomposed into subtasks or phases. It also determines what by-products are used and generated during the development process. V&V require checking some properties (such as internal consistency) of a by-product (such as requirements specification) or a comparison of two by-products (such as a specification

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