

Computer Science Research Methodologies

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ABSTRACT

This paper discusses the several research methodologies that can be used in Computer Science (CS) and Information Systems (IS). The research methods vary according to the science domain and project field. However a little of research methodologies can be reasonable for Computer Science and Information System.

Keywords- Computer Science (CS), Information Systems (IS), Research Methodologies.

1. INTRODUCTION

Science is an organized or systematic body of knowledge (Jain, 1997). Science embraces many different domains however those domains are related. Logic and mathematics sciences are the core of all sciences. From there and descending it emerge the natural sciences such as physic, chemistry and biology. In the next come the social sciences.

As (Denning, 2005) reported Computer Science (CS) should not be called as a science. Although CS is definitely a recent discipline, few will still argued that it is not provided with attributes to be qualified as a science. Computer Science has its specificity and has its bases in logic and mathematics.

However CS is transversal to very different domains in science. To understand which research methodologies that can be used in CS and IS we have to understand the differences between CS and IS.

Computer science (CS) characterized as an empirical discipline, in which each new program can be seen as an experiment, the structure and behavior of which can be studied (Allen ,2003). In particular, the field of CS is concerned with a number of different issues seen from a technological Perspective, e.g. theoretical aspects, such as numerical analysis, data Structures and algorithms; how to store and manipulate, the relationship between different pieces of software and techniques and tools for developing software .The field of Information Systems (IS) is concerned with the interaction between social and technological issues (Allen ,2003).

In other words, it is a field which focuses on the actual "link" between the human and social aspects (within an organization or other broader social setting), and the hardware, Software and data aspects of information technology (IT). In the next sections we will discuss the different methods of research methodology and its reasonability for the CS and IS domains.

Abstraction in Computer Science

Computer scientists are often thought to labor exclusively in a world of bits, logic circuits and microprocessors. Indeed, the foundational concepts of computer science are described in the language of binary arithmetic and logic gates, but it is a fascinating aspect of the discipline that the levels of abstraction that one can lay upon this foundational layer are limitless, and make possible to model familiar objects and processes of every day life entirely within a digital world. When digital models are so ciently realistic, the environments they inhabit are called virtual worlds. So today, of course, there are virtual libraries, virtual shopping malls, virtual communities, and even virtual persons, like the digital version of actor Alan Alda created in an episode of PBS's *Scientific American Frontiers*.

Complex virtual worlds such as these are made possible by computer scientists' ability to distance themselves from the mundane and tedious level of bits and processors through tools of abstraction. To abstract is to describe something at a more general level than the level of detail seen from another point of view. For example, an architect may describe a house by specifying the height of the basement foundation, the location of load-bearing walls and partitions, the R-factor of the insulation, the size of the window and door rough openings, and so on. A realtor, however, may describe the same house as having a certain number of square feet, a certain number of bedrooms, whether the bathrooms are full or half, and so on. The realtor's description leaves out architectural detail but describes the same entity at a more general level, and so it is an abstraction of the architect's description. But abstraction is relative. For example, the architect's

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