

Qualitative Research in Computer Science Education

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ABSTRACT

This paper discusses the suitability of the qualitative research approach to computer science education research. It is based on the following two observations: First, only a small proportion of works presented in the computer science education literature contain some experimental component (Fincher and Petre, 2004; Valentine, 2004). Second, those research works conducted in computer science education that do, usually employ a quantitative research approach. This paper focuses on the qualitative research approach presenting its nature, discussing its relationships to the quantitative research approach and addressing its application in general and in the context of computer science education in particular.

Categories and Subject Descriptors

K.3.0 [Computers and Education]: K.3.0 General

General Terms

Human Factors.

Keywords

Computer science education research, Research methods, Qualitative research, Qualitative research in computer science education.

1. INTRODUCTION

Consider the following two research works conducted in order to reveal students' problem-solving strategies in the context of sort algorithms.

The results of the first research are based on a validated test on sort algorithms and an adequate quantitative data analysis method that compared the performance of students who implemented the algorithms in some programming language with that of students who did not implement the algorithms and were exposed only to the relevant theoretical aspects. This research indicates several significant differences in problem-solving performance between students of the two groups. The research is based on a representative sample and claims for conclusions.

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The second research presents data obtained from interviews with a small number of students from the two above-mentioned groups, together with its analysis. The results suggest mental processes that may explain how students of the two groups use different sort algorithms. Without any claim for the generalization of its results, the research proposes that its findings can be useful for instructors who teach sort algorithms.

It is clear that these two researches employ different research methods. We propose that the differences depend largely on the objective of the research works in general and on the way in which the research results are intended to be used in particular. On the one hand, if a researcher wishes to know whether algorithm implementation in some programming language influences students' performance of specific tasks that deal with sort algorithms, the qualitative-oriented conclusion about significant difference in students' performance may be of interest to the researcher. On the other hand, if the researcher's objective is to learn about mental processes that presumably guide students of the two groups in a variety of problem-solving situations, the researcher might find the descriptive, interview-based qualitative approach more useful.

This paper focuses on the qualitative research approach which was represented by the second research mentioned above. In a more general perspective, the paper aims at addressing the theme of research in computer science education (CSE), which has recently been receiving a lot of attention from the CSE community (Dale, 2002; Almstrum, Hazzan and Gimat, 2004; Valentine, 2004; Fincher and Petre, 2004; Almstrum, Gaudial, Hazzan and Petre, 2005). Two examples of recently conducted activities that indicate this growing interest are the new SIGCSE committee (under the SIGCSE Committee Initiative) on Teaching Computer Science Research Methods (facilitated by Hilary Holt and Anne Applin) and the Scaffolding Research in Computer Science Education hands-on workshop¹, which aims at introducing higher-education faculty to research in CSE. Participation in Scaffolding involves attending workshops as well as carrying out a research. Our own interest in the application of qualitative research in CSE stems also from our observation that most of the research conducted in CSE employs quantitative research approach. This observation is based on the review of the research articles published in the CSE literature during the past five years.

Joining the growing interest in CSE research and in light of the relative lack of qualitative research in CSE, we aim, in this article, to illustrate how the qualitative research approach, which has been

¹ The Scaffolding Research in Computer Science Education workshop: <http://depts.washington.edu/srcew/>.

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