

Performing Empirical Software Engineering Research in the Classroom

Daniel Port
University of Hawaii
dport@hawaii.edu

David Klappholz
Stevens Institute of Technology
d.klappholz@worldnet.att.net

Abstract

The primary purpose of this tutorial is to show participants how empirical research performed in the context of a Software Engineering project course can provide results useful to both students in later offerings of the course and to industry. The tutorial's secondary purpose is to encourage the formation of an effort to share ideas on classroom-based research, to perform research collaboratively, and to share results with both the academic and industrial software engineering communities.

1. Introduction

It has been a long-standing hope of both software engineering educators and many of their industry associates that software project courses be used as "experimental laboratories" because of the advantages of the academic setting for doing such research. For example, in university courses the lack of constraints on budget and staff makes it possible to run many projects each year and to thereby accelerate the evolution and assessment cycle for new software development methods.

Empirical research methods in Software Engineering run the gamut from individual case studies on one end to controlled experiments on the other [1,2,3,4,5]. A recent paper [6] by Forrest Shull, and others, of the Fraunhofer Institute, one of the most highly respected organizations in the field, confirms the viability of this approach by pointing out that while some empirical studies require professional software developers as experimental subjects, many produce significant results with software engineering students as subjects. The paper also stresses the fact that research based on qualitative data can be of great interest. A point of critical interest to those concerned with Software Engineering research is the fact that there are significant questions that will not, in practice, be answered in the foreseeable future in the absence of classroom-based research; the reason is that very little empirical research is done in industry and that, for competitive reasons, even when such research is done, its results are often withheld as proprietary or are too difficult to contextualize without divulging sensitive information.

The experience base for this tutorial is research performed in the context of usc's CS577, Introduction to Software Engineering. Empirical research has been performed in CS577 over the past eight years, and continues to be performed. The academic object of the ongoing research is:

- year to year improvement of the course's content -- including, especially, improvement in the software development process(es) used in team projects -- and, thereby, of the quality of the software products resulting from these projects. (Note, in this regard, that CS577 staff is extremely sensitive to the fact that different project types require different development process, and convey this to students.)
- introduction of students, through direct experience, to the use of research/experimental methods which they will, hopefully, find useful in industrial software development projects in which they will be involved after graduation

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