Basics of Software Engineering Experimentation

Natalia Juristo and Ana M. Moreno

Foreword by Shari Lawrence Pfleeger

Basics Of Software Engineering Experimentation

Clemens Wendtner

Basics Of Software Engineering Experimentation:

   Basics of Software Engineering Experimentation Natalia Juristo,Ana M. Moreno,2013-03-14 Basics of Software Engineering Experimentation is a practical guide to experimentation in a field which has long been underpinned by suppositions assumptions speculations and beliefs It demonstrates to software engineers how Experimental Design and Analysis can be used to validate their beliefs and ideas The book does not assume its readers have an in depth knowledge of mathematics specifying the conceptual essence of the techniques to use in the design and analysis of experiments and keeping the mathematical calculations clear and simple Basics of Software Engineering Experimentation is practically oriented and is specially written for software engineers all the examples being based on real and fictitious software engineering experiments   **Experimentation in Software Engineering** Claes Wohlin,Per Runeson,Martin Höst,Magnus C. Ohlsson,Björn Regnell,Anders Wesslén,2012-12-06 It is my belief that software engineers not only need to know software engineering methods and processes but that they also should know how to assess them Conse quently I have taught principles of experimentation and empirical studies as part of the software engineering curriculum Until now this meant selecting a text from another discipline usually psychology and augmenting it with journal or confer ence papers that provide students with software engineering examples of experi ments and empirical studies This book fills an important gap in the software engineering literature it pro vides a concise comprehensive look at an important aspect of software engineer ing experimental analysis of how well software engineering methods methodologies and processes work Since all of these change so rapidly in our field it is important to know how to evaluate new ones This book teaches how to go about doing this and thus is valuable not only for the software engineering stu dent but also for the practicing software engineering professional who will be able to Evaluate software engineering techniques Determine the value or lack thereof of claims made about a software engineer ing method or process in published studies Finally this book serves as a valuable resource for the software engineering researcher   **Experimentation in Software Engineering** Claes Wohlin,Per Runeson,Martin Höst,Magnus C. Ohlsson,Björn Regnell,Anders Wesslén,2024-09-03 This textbook which has become the leading source for empirical software engineering research through its earlier editions provides an in depth introduction to experimentation in software engineering The focus is on the steps to go through when conducting experiments It also introduces a structure for selecting a research design and an introduction to systematic literature reviews surveys and case study research Experiments are valuable tools for all software engineers who evaluate and choose between different solutions methods techniques languages and tools The book has three main parts Part I introduces empirical research through a structure for selecting a research design and explains several essential areas related to empirical research Moreover it provides introductions to systematic literature reviews experiments surveys and case studies Part II devotes one chapter to each of the five experiment steps scoping planning execution analysis and result presentation Part III completes the presentation with two examples

Assignments and statistical material are provided in appendices The book provides indispensable information regarding empirical studies particularly for experiments but also for systematic literature studies surveys and case studies This new edition comprises substantial new material This includes a chapter on selecting a research design which helps put experimentation into a broader context of other research approaches Furthermore a new chapter on survey research has been added Novel contributions concerning A B testing replications open science validity threats paired comparison design and tools for statistical analysis have been added Moreover systematic literature studies experiments and case study research descriptions have been consolidated The book has also been updated based on the evolution of software engineering since the previous edition s publication The book is intended for students teachers researchers and practitioners who would like to compare different options for example feature designs or different development methods techniques languages or tools Teachers can use the book for undergraduate or graduate students the book can be used as a course book on experimentation and empirical studies in general Researchers will also benefit from the book by learning more about how to conduct empirical studies Likewise practitioners may use it as a cookbook when evaluating different solutions alternatively for evaluating new methods or techniques before implementing them in their organisation **Engineering Experimentation** Ernest O. Doebelin,1995 This text presents an organized treatment of the methods and tools used in engineering experimental work It is designed for students laboratory courses and practicing engineers engaged in experimental test and development work *Introduction to Engineering Experimentation* Anthony J. Wheeler,Ahmad Reza Ganji,2010 For undergraduate level courses in Introduction to Engineering Experimentation found in departments of Mechanical Aeronautical Civil and Electrical Engineering A practical introduction to engineering experimentation Introduction to Engineering Experimentation introduces many topics that engineers need to master in order to plan design and document a successful experiment or measurement system The text offers a practical approach with current examples and thorough discussions of key topics including those often ignored or merely touched upon by other texts such as modern computerized data acquisition systems electrical output measuring devices and in depth coverage of experimental uncertainty analysis 12th Conference on Software Engineering Education and Training IEEE Computer Society,1999 These papers from the 12th Software Engineering education Conference are aimed at researchers practitioners and students in software design and development Contents include professional connections educational connections emerging connections and real world connections *Proceedings* ,2005 **Tutorial Programming Productivity** Capers Jones,1986 This tutorial volume on productivity issues for the eighties attempts to place programming in context with other disciplines and address five major topis programming measurements programming life cycle analysis programming equipment and design methods programming environmental and the new science of software Abstract *The Unified Modeling Language* ,2003 **Advance Working Papers** ,1988 **A Controlled Experiment for Measuring the Impact of**

Aspect-Oriented Programming on Software Development Time Sebastian Kleinschmager,2012-11-22 Bachelor Thesis from the year 2009 in the subject Computer Science Software grade 1 0 University of Duisburg Essen Institute for Computer Science and Business Information Systems course Informatik Empirische Softwareforschung language English abstract In this document a controlled experiment on aspect oriented programming that was performed in the context of my bachelor thesis is described and evaluated The experiment was designed to make the overall performance of software developers using object orientation and aspect orientation on a number of tasks comparable The primary focus of the experiment laid on whether aspect orientation has a positive impact on the development time when comparing its performance with the performance of the object oriented approach on the same task *15th International Conference on Software Engineering, May 17-21, 1993, Baltimore, Marlyland* ,1993 **Government reports annual index** ,199? International Conference on Software Maintenance Hausi A. Müller,Mari Georges,1994 Empirical Studies of Distributed Pair Programming Brian F. Hanks,2005 *Experimentation in Software Engineering* Victor R. Basili,Richard W. Selby,David H. Hutchens,MARYLAND UNIV COLLEGE PARK DEPT OF COMPUTER SCIENCE.,1985 Experimentation in software engineering supports the advancement of the field through an iterative learning process In this paper we present a framework for analyzing most of the experimental work performed in software engineering over the past several years We describe a variety of experiments in the framework and discuss their contribution to the software engineering discipline Some useful recommendations for the application of the experimental process in software engineering are included Keywords Software technology measurement and evaluation Data collection and analysis Software metrics Controlled experiment Experimental design Empirical study KR

Annals of Cases on Information Technology Mehdi Khosrowpour,2002 A collection of real life cases this book chronicles both the successes and failures of worldwide organizations as they attempt to utilize the ever changing realm of information technology These cases address the experiences of and issues impacting a variety of organizations of all sizes and types *Software Education Conference (SRIG-ET '94)* Martin Purvis,1995 Empirical Studies in Software Engineering Christian Bunse,Andreas Jedlitschka,2003 Many academics and practitioners believe that evaluation has a vital role to play in software engineering As well as evaluating both application level and component level products software engineers need to be concerned with the evaluation of development processes engineering methods and supplier organizations However both academics and practitioners are concerned about the cost and effectiveness of applying many of the existing assessment methods One of the aims of the workshop was to address the question of justifying the use of empirical assessment and evaluation in software engineering as well as to hear about practical experiences Both this theme together with the other issues involved in evaluation were addresses through technical presentations and experience reports Thus the worlshop was a unique forum dedicated to the presentation and discussion of research and practical experiences addressing all aspects of empirical assessment and evaluation in software engineering **Directory of American**

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