Best Practices for Change Impact Analysis

Software Change Impact Analysis

CO Houle

Software Change Impact Analysis:

Software Change Impact Analysis Shawn Bohner,Robert Arnold,1996-07-14 You will gain a healthy respect for the strengths and limitations of impact analysis technology and a solid background that will prove valuable for years to come The book identifies key impact analysis definitions and themes and illustrates the important themes to give you a solid understanding for tackling impact analysis problems Software Change Impact Analysis Sunil Sikka,Ankit Dhamija,2020-05-19 Introducing changes in the software during development and post development is a very frequent activity Reasons for changes include client s changing requirements fixing leftover bugs and other security issues adding new functionality and so on Introducing changes in software may bring adverse effects that may degrade its quality or introduce new bugs which in turn will increase the software maintenance cost Therefore a systematic change management process is required A systematic process for managing software changes is already in place i e Change Impact Analysis CIA The current book conducts a systematic study of recent developments techniques and tools in the area of CIA **A Change Impact Analysis Framework for the Software Development Phase** Nazri Mohd Kama,2011 Software undergoes changes at all stages of the software development process Accepting too many changes will cause expense and delay and rejecting the changes may cause customer dissatisfaction One of the inputs that help the software project management to decide whether to accept or reject the changes is by having reliable predictions of the impact of the changes Change impact analysis is one of the methods that can be used to provide the predictive information Many current impact analysis techniques have been developed for the software maintenance phase These techniques assume that all classes in the class artifact are completely developed and the class artifact is used as a source of analysis since it represents the final user requirements However these assumptions are not practical for impact analysis in the software development phase as some classes in the class artifact are still under development or partially developed This leads to inaccuracy This thesis presents a novel impact analysis framework to be used in the software development phase The framework composes two main stages that are the development of the class interactions prediction and the impact analysis The significant achievements of the framework are demonstrated through an extensive experimental validation using several case studies The experimental analysis shows improvement in the accuracy over current impact analysis results *Emerging Technologies for the Evolution and Maintenance of Software Models* Rech, Jörg,2011-12-31 Model driven software development drastically alters the software development process which is characterized by a high degree of innovation and productivity Emerging Technologies for the Evolution and Maintenance of Software Models contains original academic work about current research and research projects related to all aspects affecting the maintenance evolution and reengineering MER as well as long term management of software models The mission of this book is to present a comprehensive and central overview of new and emerging trends in software model research and to provide concrete results from ongoing developments in the field **Information and**

Software Technologies Tomas Skersys,Rimantas Butleris,Rita Butkiene,2013-11-13 This book constitutes the refereed proceedings of the 18th International Conference on Information and Software Technologies ICIST 2012 held in Kaunas Lithuania in September 2012 The 40 revised full papers presented were carefully reviewed and selected from 81 submissions The papers are organized in topical sections on artificial intelligence and knowledge engineering business process modelling analysis and design formal analysis and design methods information and software systems engineering information technology applications and computer networks information technology in teaching and learning ontology conceptual modelling and databases requirements engineering and business rules **Managing Corporate Information Systems Evolution and Maintenance** Khaled M. Khan,Yan Zhang,2005-01-01 This book addresses the recent developments in systems maintenance research and practices ranging from technicality of systems evolution to managerial aspects of the topic including issues such as evolving legacy systems to e business applying patterns for reengineering legacy systems to web architectural recovery of legacy systems evolving legacy systems into software components **Software Quality. Software and Systems Quality in Distributed and Mobile Environments** Dietmar Winkler,Stefan Biffl,Johannes Bergsmann,2015-01-05 This book constitutes the refereed proceedings of the scientific track of the 7th Software Quality Days Conference SWQD 2015 held in Vienna Austria in January 2015 The SWQD conference offers a range of comprehensive and valuable information by presenting new ideas from the latest research papers keynote speeches by renowned academics and industry leaders professional lectures exhibits and tutorials The four scientific full papers accepted for SWQD were each peer reviewed by three or more reviewers and selected out of 13 high quality submissions Further four short papers were also presented and are included in this book The papers are organized into topical sections on risk management and inspection change impact analysis and systems testing and software and systems architectures *Software Change Impact Analysis for Java Code* Xiaozheng Ma,2003 As software becomes increasingly complex maintenance and evolution become more challenging to developers One of the major problems for developers in an evolutionary environment is that seemingly small changes can ripple throughout the system and thus cause major unintended impact elsewhere However manual analysis is inefficient and error prone for performing data dependency and impact analysis There is a need for automatic tools to help software developers understand how changes in software system impact the rest of the system and identify those impacts Although object oriented codes are more easily packaged and have certain advantages features such as encapsulation inheritance and polymorphism introduce new problems for analyzing ripple effects in object oriented This thesis presents a prototype of an automatic software change impact analyzer for Java code Given the proposed changes such as the modification of fields methods or some statements inside a method the goal of this automatic tool is to identify the possible impacts to the system based on data dependency analysis and present the impacts analysis results to the user The output of the system is a set of affected classes fields and methods which can be used in cost estimation change plan

evaluation efficient retesting etc **Change Request Impacts in Software Maintenance** Madapuri Rudra Kumar,Kalli Srinivasa Nageswara Prasad,Annaluri Sreenivasa Rao,Vinit Kumar Gunjan,2020-08-06 This book discusses Change Management Impact Analysis and how this method is used to analysis the risks and benefits of a change management initiative when it pertains to obtaining critical insight into how the change management program budget should be allotted The process also offers useful indicators for what areas within the system should be monitored during the change management process This book presents theoretical analysis of practical implications and surveys along with analysis It covers the functions aimed at identifying various stakeholders associated with the software such as requirement component design component and class component The book talks about the interrelationship between the change and the effects on the rest of the system and dives deeper to include the critical role that the analysis places on the existing multiple functions such as estimating the development costs the project overhead costs cost for the modification of the system and system strength or detecting errors in the system during the process Case studies are also included to help researchers and practitioners to absorb the material presented This book is useful to graduate students researchers academicians institutions and professionals that interested in exploring the areas of Impact Analysis *Proceedings, International Conference on Software Maintenance* ,1996 **Proceedings** ,2002 Software Change Impact Analysis Mattheos Kakaris,V. Karakostas,University of Manchester Institute of Science and Technology. Department of Computation,1998 **Eighth IEEE International Workshop on Software Technology and Engineering Practice** David Budgen,Gene Hoffnagle,Jos Trienekens,1997 Proceedings of the July 1997 workshop concentrating on software engineering s role in software and systems development evolution and management Reports on current practical applied experimental and theoretical work affecting software engineering practice with sections on system architectures reverse engineering system development methods OO development configuration management and system interconnection tools software reuse process modeling software engineering education and COTS technology No index Annotation copyrighted by Book News Inc Portland OR **Proceedings of the ... ASME Design Engineering Technical Conferences** ,2003 **A Review of Software Change Impact Analysis** Steffen Lehnert,2011 7th International Workshop on Program Comprehension ,1999 Contains papers from a May 1999 workshop addressing issues and presenting remedies in program comprehension Research papers and empirical reports deal with topics including software visualization architecture integration frameworks comprehension models parsing program decomposition and analy **IEEE International Conference on Software Maintenance--1999** ,1999 Annotation Proceedings of the August 1999 conference on software maintenance Sixty one contributions discuss reverse engineering tools migration visualization and understanding architectures and frameworks management testing object oriented technology reuse and validation models and processes processes and technology measurement and improvement architecture software change and impact analysis software maintenance the future and on the threshold of Y2K

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