

Reliability Quantification of OO Design -Complexity Perspective-

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Abstract. Object oriented design and development are popular conceptions in today's software development scenario. Object oriented design supports design principal such as inheritance, coupling, cohesion and encapsulation. The proposed research work will deliver a mechanism for reliability estimation of object oriented design in respect of complexity perspective. The four metrics Inherited Class Complexity (IC2), Coupling Complexity Normalization (CCN), Class Cohesion Complexity Metric (C3M), Encapsulated Class Complexity Metric (EC2M) are proposed for each of object oriented design constructs such as inheritance, coupling, cohesion and encapsulation respectively. Complexity and reliability estimation approach is presented in this paper. On the basis of proposed metrics a multiple regression equation has been established for computing the complexity of design hierarchies. Complexity is inversely affects reliability of object oriented designs. Again a multiple regression equation has been established to compute reliability in respect of complexity. Comparative analysis among metric values, reliability and complexity has been done in this paper.

Keywords: Complexity, Reliability, Estimation, Design, Quantification.

1 Introduction

Software spread over our modern society very rapidly over last two decades. Nothing can be operated without the use of software like cameras, VCRs, televisions, car engines, vending machine etc. Software is a systematic representation and processing of human knowledge [1]. Today, everything is depended on computer software. The dependency on software increases failures, when software does not execute reliably. Software executes reliably when it does what it is supposed to do. Software reliability is still a challenging problem that affects software producers from small developer teams to big vendors [2]. The increasing complexity of software systems makes reliability more difficult to handle. In addition, most software developers have insufficient knowledge of reliability aspect and use immature reliability assurance techniques for preventing reliability defects across the entire software development life cycle. This worsens the problem of reliable software engineering [1]. There are several approaches to makes the system highly reliable. Among several approaches object oriented design is one of the important approach to estimates

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Andrea Bondavalli

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Reliability Estimation of Object Oriented Design Amitabha Yadav, 2014-12-18 Advances in Computer Science, Engineering & Applications David C. Wyld, Jan Zizka, Dhinakaran Nagamalai, 2012-05-15 The International conference series on Computer Science Engineering Applications ICCSEA aims to bring together researchers and practitioners from academia and industry to focus on understanding computer science engineering and applications and to establish new collaborations in these areas The Second International Conference on Computer Science Engineering Applications ICCSEA 2012 held in Delhi India during May 25 27 2012 attracted many local and international delegates presenting a balanced mixture of intellect and research both from the East and from the West Upon a strenuous peer review process the best submissions were selected leading to an exciting rich and a high quality technical conference program which featured high impact presentations in the latest developments of various areas of computer science engineering and applications research An Integrated Approach to Software Engineering Pankaj Jalote, 2012-12-06 A lot has changed in the fast moving area of software engineering since the first edition of this book came out However two particularly dominant trends are clearly discernible focus on software processes and object orientation A lot more attention is now given to software processes because process improvement is considered one of the basic mechanisms for improving quality and productivity And the object oriented approach is considered by many one of the best hopes for solving some of the problems faced by software developers In this second edition these two trends are clearly highlighted A separate chapter has been included entitled Software Processes In addition to talking about the various development process models the chapter discusses other processes in software development and other issues related to processes Object orientation figures in many chapters Object oriented analysis is discussed in the chapter on requirements while there is a complete chapter entitled Object Oriented Design Some aspects of object oriented programming are discussed in the chapter on coding while specific techniques for testing object oriented programs are discussed in the chapter on testing Overall if one wants to develop software using the paradigm of object orientation aB aspects of development that require different handling are discussed Most of the other chapters have also been enhanced in various ways In particular the chapters on requirements specification and testing have been considerably enhanced

Communication and Intelligent Systems Harish Sharma, Mukesh Kumar Gupta, G. S. Tomar, Wang Lipo, 2021-06-28 This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems ICCIS 2020 organized jointly by Birla Institute of Applied Sciences Uttarakhand and Soft Computing Research Society during 26 27 December 2020 This book presents a collection of state of the art research work involving cutting edge technologies for communication and intelligent systems Over the past few years advances in artificial intelligence and machine learning have sparked new research efforts around the globe which explore novel ways of developing intelligent systems and smart communication technologies The book presents single and multi disciplinary research on these themes in order to make the

latest results available in a single readily accessible source **Scientific and Technical Aerospace Reports** ,1995

Handbook of Research on Emerging Advancements and Technologies in Software Engineering Ghani, Imran,Kadir, Wan Mohd Nasir Wan,Ahmad, Mohammad Nazir,2014-04-30 Advanced approaches to software engineering and design are capable of solving complex computational problems and achieving standards of performance that were unheard of only decades ago Handbook of Research on Emerging Advancements and Technologies in Software Engineering presents a comprehensive investigation of the most recent discoveries in software engineering research and practice with studies in software design development implementation testing analysis and evolution Software designers architects and technologists as well as students and educators will find this book to be a vital and in depth examination of the latest notable developments within the software engineering community Software Measurement and Estimation Linda M. Laird,M. Carol Brennan,2006-06-05 An effective quantitative approach for estimating and managing software projects How many people do I need When will the quality be good enough for commercial sale Can this really be done in two weeks Rather than relying on instinct the authors of Software Measurement and Estimation offer a new tested approach that includes the quantitative tools data and knowledge needed to make sound estimations The text begins with the foundations of measurement identifies the appropriate metrics and then focuses on techniques and tools for estimating the effort needed to reach a given level of quality and performance for a software project All the factors that impact estimations are thoroughly examined giving you the tools needed to regularly adjust and improve your estimations to complete a project on time within budget and at an expected level of quality This text includes several features that have proven to be successful in making the material accessible and easy to master Simple straightforward style and logical presentation and organization enables you to build a solid foundation of theory and techniques to tackle complex estimations Examples provided throughout the text illustrate how to use theory to solve real world problems Projects included in each chapter enable you to apply your newfound knowledge and skills Techniques for effective communication of quantitative data help you convey your findings and recommendations to peers and management Software Measurement and Estimation A Practical Approach allows practicing software engineers and managers to better estimate manage and effectively communicate the plans and progress of their software projects With its classroom tested features this is an excellent textbook for advanced undergraduate level and graduate students in computer science and software engineering An Instructor Support FTP site is available from the Wiley editorial department

Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014 Suresh Chandra Satapathy,Bhabendra Narayan Biswal,Siba K. Udgata,J. K. Mandal,2014-10-31 This volume contains 87 papers presented at FICTA 2014 Third International Conference on Frontiers in Intelligent Computing Theory and Applications The conference was held during 14 15 November 2014 at Bhubaneswar Odisha India This volume contains papers mainly focused on Network and Information Security Grid Computing and Cloud Computing Cyber Security and Digital

Forensics Computer Vision Signal Image Video Processing Software Engineering in Multidisciplinary Domains and Ad hoc and Wireless Sensor Networks *Software Design for Six Sigma* Basem S. El-Haik,Adnan Shaout,2011-02-16 This proposal constitutes an algorithm of design applying the design for six sigma thinking tools and philosophy to software design The algorithm will also include conceptual design frameworks mathematical derivation for Six Sigma capability upfront to enable design teams to disregard concepts that are not capable upfront learning the software development cycle and saving development costs The uniqueness of this book lies in bringing all those methodologies under the umbrella of design and provide detailed description about how these methods QFD DOE the robust method FMEA Design for X Axiomatic Design TRIZ can be utilized to help quality improvement in software development what kinds of different roles those methods play in various stages of design and how to combine those methods to form a comprehensive strategy a design algorithm to tackle any quality issues in the design stage *Third Congress on Intelligent Systems* Sandeep Kumar,Harish Sharma,K.

Balachandran,Joong Hoon Kim,Jagdish Chand Bansal,2023-03-11 This book is a collection of selected papers presented at the Third Congress on Intelligent Systems CIS 2022 organized by CHRIST Deemed to be University Bangalore India under the technical sponsorship of the Soft Computing Research Society India during September 5 6 2022 It includes novel and innovative work from experts practitioners scientists and decision makers from academia and industry It covers topics such as the Internet of Things information security embedded systems real time systems cloud computing big data analysis quantum computing automation systems bio inspired intelligence cognitive systems cyber physical systems data analytics data web mining data science intelligence for security intelligent decision making systems intelligent information processing intelligent transportation artificial intelligence for machine vision imaging sensors technology image segmentation convolutional neural network image video classification soft computing for machine vision pattern recognition human computer interaction robotic devices and systems autonomous vehicles intelligent control systems human motor control game playing evolutionary algorithms swarm optimization neural network deep learning supervised learning unsupervised learning fuzzy logic rough sets computational optimization and neuro fuzzy systems *Dependable Computing* Andrea Bondavalli,2007-09-12 This book constitutes the refereed proceedings of the Third Latin American Symposium on Dependable Computing LADC 2007 held in Morelia Mexico in September 2007 The 14 revised full papers presented together with 2 invited talks and outlines of 3 tutorials and 2 panel sessions were carefully reviewed and selected from 37 submissions The papers are organized in topical sections on fault tolerant algorithms software engineering of dependable systems networking and mobile computing experimental dependability evaluation as well as intrusion tolerance and security

SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities K. Pitilakis,P. Franchin,B. Khazai,H. Wenzel,2014-06-19 SYNER G a multidisciplinary effort funded by the European Union allowed the development of an innovative methodological framework for the assessment of physical

as well as socio economic seismic vulnerability and risk at urban and regional level The results of SYNER G are presented in two books both published by Springer the present and a second one entitled SYNER G Typology Definition and Fragility Functions for Physical Elements at Seismic Risk Buildings Lifelines Transportation Networks and Critical Facilities which provides a comprehensive state of the art of the fragility curves an alternative way to express physical vulnerability of elements at risk In this second volume of SYNER G the focus has been on presenting a unified holistic methodology for assessing vulnerability at systems level considering interactions between elements at risk physical and non physical and between different systems The proposed methodology and tool encompasses in an integrated fashion all aspects in the chain from hazard to the vulnerability assessment of components and systems and to the socio economic impacts of an earthquake accounting for most relevant uncertainties within an efficient quantitative simulation scheme It systematically integrates the most advanced fragility functions to assess the vulnerability of physical assets for buildings utility systems transportation networks and complex infrastructures such as harbours and hospitals The increasing impact due to interactions between different components and systems is treated in a comprehensive way providing specifications for each network and infrastructure The proposed socio economic model integrates social vulnerability into the physical systems modelling approaches providing to decision makers with a dynamic platform to capture post disaster emergency issues like shelter demand and health impact decisions Application examples at city and regional scale have provided the necessary validation of the methodology and are also included in the book The present volume with its companion volume on fragility functions represent a significant step forward in the seismic vulnerability and risk assessment of complex interacting urban and regional systems and infrastructures These volumes are not only of interest to scientists and engineers but also to the insurance industry decision makers and practitioners in the sector of civil protection and seismic risk management Pitilakis K Crowley E Kaynia A eds 2014 SYNER G Typology definition and fragility functions for physical elements at seismic risk Series Geotechnical Geological and Earthquake Engineering 27 ISBN 978 94 007 7872 6 Springer Science Business Media Dordrecht

Crowdsourcing and Probabilistic Decision-Making in Software Engineering: Emerging Research and Opportunities Gupta, Varun, 2019-08-30 With today's technological advancements the evolution of software has led to various challenges regarding mass markets and crowds High quality processing must be capable of handling large groups in an efficient manner without error Solutions that have been applied include artificial intelligence and natural language processing but extensive research in this area has yet to be undertaken *Crowdsourcing and Probabilistic Decision Making in Software Engineering Emerging Research and Opportunities* is a pivotal reference source that provides vital research on the application of crowd based software engineering and supports software engineers who want to improve the manner in which software is developed by increasing the accuracy of probabilistic reasoning to support their decision making and getting automation support While highlighting topics such as modeling techniques and programming practices this publication is

ideally designed for software developers software engineers computer engineers executives professionals and researchers

Smart Computing and Informatics Suresh Chandra Satapathy,Vikrant Bhateja,Swagatam Das,2017-10-28 This volume contains 68 papers presented at SCI 2016 First International Conference on Smart Computing and Informatics The conference was held during 3 4 March 2017 Visakhapatnam India and organized communally by ANITS Visakhapatnam and supported technically by CSI Division V Education and Research and PRF Vizag This volume contains papers mainly focused on smart computing for cloud storage data mining and software analysis and image processing Emerging Trends in Mechatronics Aydin Azizi,2020-01-15 Mechatronics is a multidisciplinary branch of engineering combining mechanical electrical and electronics control and automation and computer engineering fields The main research task of mechatronics is design control and optimization of advanced devices products and hybrid systems utilizing the concepts found in all these fields The purpose of this special issue is to help better understand how mechatronics will impact on the practice and research of developing advanced techniques to model control and optimize complex systems The special issue presents recent advances in mechatronics and related technologies The selected topics give an overview of the state of the art and present new research results and prospects for the future development of the interdisciplinary field of mechatronic systems

Metrics and Models in Software Quality Engineering Stephen H. Kan,2003 This is the single best book on software quality engineering and metrics that I ve encountered Capers Jones from the ForewordMetrics and Models in Software Quality Engineering Second Edition is the definitive book on this essential topic of software development Comprehensive in scope with extensive industry examples it shows how to measure software quality and use measurements to improve the software development process Four major categories of quality metrics and models are addressed quality management software reliability and projection complexity and customer view In addition the book discusses the fundamentals of measurement theory specific quality metrics and tools and methods for applying metrics to the software development process New chapters bring coverage of critical topics including In process metrics for software testingMetrics for object oriented software developmentAvailability metricsMethods for conducting in process quality assessments and software project assessmentsDos and Don ts of Software Process Improvement by Patrick O TooleUsing Function Point Metrics to Measure Software Process Improvement by Capers Jones In addition to the excellent balance of theory techniques and examples this book is highly instructive and practical covering one of the most important topics in software development quality

engineering 0201729156B08282002 **Digital Avionics Handbook, Third Edition** Cary Spitzer,Uma Ferrell,Thomas Ferrell,2014-09-03 A perennial bestseller the Digital Avionics Handbook offers a comprehensive view of avionics Complete with case studies of avionics architectures as well as examples of modern systems flying on current military and civil aircraft this Third Edition includes Ten brand new chapters covering new topics and emerging trends Significant restructuring to deliver a more coherent and cohesive story Updates to all existing chapters to reflect the latest software and technologies

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